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Earth-Venus Trajectories, 1968-69

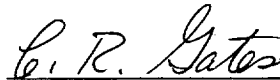
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FOREWORD

This volume is one of a set of five giving key characteristics of Earth-to-Venus trajectories during the period 1964-1970. This period is divided into five 120-day launch intervals spaced about 19.2 months apart. During each interval, trajectory characteristics are given for flight times of from 70 to 220 days in 2-day steps. Thus each volume contains 9,120 trajectories.

The applicability of these books may be extended by noting the 8-year cyclic recurrence of Earth-Venus trajectories. Thus trajectories in 1972 are very nearly identical to 1964 trajectories; 1973 trajectories are very nearly identical to 1965 trajectories, etc. Simply by updating the trajectories by 8 years, the results may be reapplied.

It is intended that these books provide trajectory and guidance analysts with data, in volume, so that they may perform preliminary design studies, conduct investigations of the properties of ballistic interplanetary trajectories, and make interplanetary guidance and orbit determination analyses. While not exact, these trajectories are sufficiently accurate to be quite useful for the above purposes.

In generating such a large amount of data, it is impossible to check the correctness of each number. Should the reader detect any errors, the authors would appreciate being advised.

Companion volumes (Ref. 1) give the characteristics of Earth-Mars trajectories during the period 1964-1977.

I. INTRODUCTION

This report presents the results of extensive machine computations of three-dimensional ballistic interplanetary trajectories. The analytic model used to represent these trajectories is based upon two-body, inverse-square, force field mechanics. A brief explanation of the model is presented in Section II.

Basically, the trajectories are calculated in two distinct parts: (1) the heliocentric transfer ellipse and (2) the launch-planet-centered escape trajectories. Following these trajectories, differential corrections or error coefficients and guidance and tracking parameters are given.

A. Heliocentric Conic Computation

The heliocentric trajectory is obtained by specifying the launch date and flight time only. Given these, the positions of the launch planet on the launch date and the target planet on the arrival date may be obtained by interrogating the ephemerides. By assuming the planets to be massless, a unique heliocentric trajectory may then be computed which passes through the centers of the launch and target planets. Though this assumption may at first seem gross, experience has proved it to be perfectly reasonable for this purpose. After the solution has been obtained by an iterative procedure, the orbital elements, heliocentric position, and velocity vectors at launch and arrival are computed. Other heliocentric quantities of engineering interest are also computed.

B. Planetocentric Conic Computation

After the heliocentric orbit is obtained, the launch and arrival hyperbolic-excess velocity vectors are computed by subtracting the velocity vectors of the launch and target planets from the heliocentric launch and arrival velocity vectors of the probe. The launch hyperbolic-excess vector is, in fact, the most important result of these computations because it yields the energy and direction of fire required to achieve interplanetary transfer.

Further computations are done to exhibit properties of the near-Earth portion of the trajectories. Given the launch hyperbolic-excess vector, a launch site (Cape Canaveral), a launch azimuth, and certain properties of a typical interplanetary boost vehicle, and assuming a 100-nm parking orbit, quantities such as launch time, injection position and velocity vectors, parking orbit coast time, and injection time are computed. In essence, then, approximate trajectories are obtained from the

launch pad to the target. The terminal portions of the trajectories are assumed to impact vertically on the target planet.

C. Differential Corrections

To augment the trajectory parameters, differential corrections or error coefficients relating variations in the launch hyperbolic-excess velocity vector to variations in target miss and flight time are computed. Actually, the variables at launch in these coefficients are the square of the hyperbolic-excess speed, or *vis viva* energy C_3 , and the declination and right ascension of a unit vector S , collinear with the outgoing asymptote of the escape hyperbola. The target variables are the components of the impact parameter B , defined below, and the flight time. These coefficients are obtained by a numerical differencing technique developed by William Kizner of JPL.

Based upon these error coefficients, guidance and tracking parameters are calculated as described below.

D. Mid-Course Guidance

Interplanetary guidance is currently being accomplished by determining the orbit of the probe from radio tracking data and then applying one or more impulsive velocity corrections to null the predicted target error. The guidance task closely parallels the trajectory problem, for it is convenient to define the following guidance "phases":

1. Planetocentric phase, in which, after the launch vehicle has placed the probe on its escape hyperbola, the orbital elements of this trajectory are determined and the hyperbolic-excess velocity is corrected to the desired value.
2. Heliocentric phase, in which additional velocity corrections may be made to correct any error in orbit determination and/or maneuver execution in phase 1.
3. Approach phase, in which the probe is in the sphere of influence of the planet and the final vernier corrections may be made to trim the results of phase 2.

The preflight analysis of phase-1 guidance is primarily concerned with the statistical problem of determining how much propellant to carry aboard the spacecraft in

order to correct a "three-sigma" injection guidance error. These studies are well-documented elsewhere (Ref. 2-4) and will not be discussed here. Suffice it to say that correcting the hyperbolic-excess velocity is a reasonably good approximation to nulling the miss components at the planet. Such an analysis need only be concerned with the planetocentric phase of flight.

The analysis of the heliocentric phase is more complicated, since maneuvers there depend upon errors in applying the first midcourse maneuver (phase 1). In order to understand the effect of phase 1 errors, or to specify a tolerance on them, it is convenient to ask how a unit error in hyperbolic-excess velocity maps to miss at the target. This unit velocity error can be thought of as due to uncertainties in phase-1 maneuver execution and orbit determination. Conceptually, this analysis can be accomplished by letting a unit velocity error trace out a sphere at the tip of the hyperbolic-excess velocity vector and observing the semimajor and semiminor axes of the miss ellipse at the target (only two miss components are normally of interest). Mathematically, this is done by simply forming a matrix of the differential corrections, multiplying this matrix by its own transpose, diagonalizing the resulting symmetric matrix, and observing that the two diagonal terms are the desired semimajor and semiminor axes of the unit error ellipse.¹ It is easy to show that if the coordinate system chosen to describe the target error is collinear with these axes, the rows of the resulting differential correction matrix (which are gradient vectors) are orthogonal, and their norms are the magnitudes of the error-ellipse axes.

The approach guidance phase is not conveniently treated with this kind of analysis, and is not discussed further. Here, it can be assumed that the approach maneuvers are always negligibly small.

E. Orbit Determination

A spacecraft boosted toward Mars or Venus by the current generation of launch vehicles requires the accuracy obtainable using Earth-based radio guidance in order to accomplish most planet-oriented experiments. The steps in radio guidance are:

1. Track the transponder signal from the spacecraft from several stations located at a spread of latitudes to determine the orbit of the spacecraft.

¹It should be apparent to readers familiar with statistical concepts that this is equivalent to mapping a three-dimensional gaussian distribution of velocity errors, with unit standard deviation along each axis, to a two-dimensional gaussian distribution of position errors at the target.

2. Calculate the velocity changes required to alter the orbit to pass through the desired region at the target. The maneuver is then applied with a small rocket motor; the pointing direction and burning time (of the velocity increment) are calculated to perfectly correct the orbit if both the estimate of the orbit and the application of the maneuver are without error.
3. Track the spacecraft after the first maneuver for a sufficient interval to form a new estimate of the perturbed orbit.

This process of tracking and maneuvering may be repeated several times to achieve high accuracies at the target. There is, however, a limit to the process imposed by our uncertainties in the actual location of the target planet as well as the unpredictable forces acting on the spacecraft.

For extremely high accuracy at the target planet, on-board measurements must be used in conjunction with the Earth-based tracking in order to further reduce the above-mentioned uncertainties. It is not the function of this report to discuss on-board measurement systems but rather to describe the capabilities of current Earth-based radio guidance techniques when applied to interplanetary trajectories.

An adequate description of the accuracy to which orbits may be determined and maneuvers executed for the case of several corrective maneuvers is beyond the scope of this report. The results presented here may be strictly interpreted as corresponding to the accuracy capabilities for a single mid-course maneuver occurring anywhere between 1 and 14 days after injection. The relative contribution to the target uncertainty caused by orbit determination errors and mid-course execution errors depends directly upon the size of the correction required on a particular flight. For this reason, then, two error sources are considered separately. While our results do correspond to the single maneuver case, they are very valuable in providing a general description of the way in which these errors vary over the selected set of trajectories. Such utilization of the results is discussed later herein.

F. Accuracy of Computations

Extensive accuracy studies were performed to verify the adequacy of these trajectories for preliminary design use. Both Mars and Venus trajectories were computed on the JPL precision-integrating trajectory program using

initial conditions obtained from the approximate trajectories contained herein. Of 56 Mars cases run, 29 missed the target by less than 500,000 km; 16 missed by between 500,000 and 1,000,000 km; and 5 missed by between 1,000,000 and 1,500,000 km. The worst case missed by 3,500,000 km. For the flight time errors, 16 varied between 1 and 2 days; 14 varied between 2 and 3 days; and 9 were greater than 3 days. The worst case was 7.2 days. No systematic properties of these errors were noted except that they appear to get worse for the higher-energy trajectories.

For Venus, the accuracy was considerably better, averaging 322,000-km miss error and 0.67-day flight time errors. Based on these comparisons, the model used to generate the trajectories contained herein is considered to be adequate and the results suitable for preliminary mission design studies. These results are very useful for initializing the precision trajectory search program.

When used for the stated purposes, these trajectories provide an excellent source of data obtained at considerably less time and expense than precision cases.

II. ANALYTICAL MODEL FOR INTERPLANETARY TRAJECTORIES

The analytical model consists of three distinct phases of two-body motion: (1) an escape hyperbola near the launch planet, (2) elliptical² motion under the attraction of the Sun, and (3) terminal hyperbolic motion near the target planet.

A. Heliocentric Motion

Solution of the heliocentric elliptic motion is obtained first under the following assumptions:

1. The launch and target planets move in orbits about the Sun as given in the national ephemerides. Their velocity components are obtained by using two-body conic formulas, mean orbital elements, and their tabular positions as listed in the ephemerides.
2. The launch and target planets are massless. Thus the only force acting on the probe is that of the Sun.
3. The position of the probe at launch into the heliocentric orbit is the center of the massless launch planet. Its position at arrival on the heliocentric orbit is the center of the massless target planet.

Thus for solution to the heliocentric phase of motion, the attractions of the launch and target planets are temporarily disregarded. The primary result to be obtained from the solution of the heliocentric transfer problem is the hyperbolic-excess velocity vector relative to the launch planet.

1. Determination of Planar Orientation

Since the launch and arrival positions of the probe are assumed to be the centers of the launch and target planets, they can immediately be determined, given the launch and arrival³ times, by consulting the ephemeris. Further, the orientation of the heliocentric transfer plane can immediately be found. Let \mathbf{R}_L be the Sun-launch planet position vector at launch time T_L , and let \mathbf{R}_p be the Sun-target planet position vector at arrival time T_p (Fig. 1). Then, planar orientation is found from the unit normal \mathbf{W} to the plane as follows:

$$\mathbf{W} = \frac{\mathbf{R}_L \times \mathbf{R}_p}{R_L R_p \sin \Psi} \quad (1)$$

²Hyperbolic heliocentric motion is not considered herein.

³Or, for convenience, the launch date and flight time can be specified.

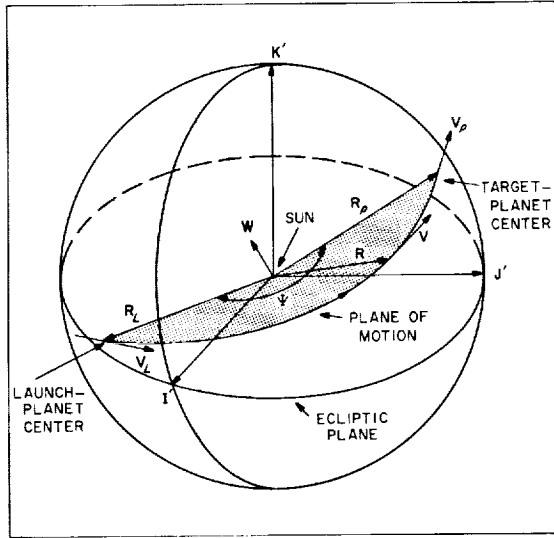


Fig. 1. Heliocentric transfer geometry

where the angle Ψ is defined below. The inclination⁴ i to the ecliptic plane can be found by

$$\cos i = \mathbf{W} \cdot \mathbf{K}' \quad (2)$$

where \mathbf{K}' is a unit vector pointing in the direction of the ecliptic north pole.

2. In-Plane Relations

The heliocentric central angle Ψ (Fig. 1) is also readily determined by utilizing the positions of the launch and target planets. This angle may be obtained from

$$\cos \Psi = \frac{\mathbf{R}_L \cdot \mathbf{R}_p}{|\mathbf{R}_L| |\mathbf{R}_p|} \quad (3)$$

$$\sin \Psi = \text{sgn} [(\mathbf{R}_L \times \mathbf{R}_p) \cdot \mathbf{K}'] (1 - \cos^2 \Psi)^{1/2} \quad (4)$$

The velocity vector \mathbf{V} of the spacecraft anywhere along its path may be obtained from

$$\mathbf{V} = \frac{V}{R} [(\mathbf{W} \times \mathbf{R}) \cos \Gamma + \mathbf{R} \sin \Gamma] \quad (5)$$

Here, \mathbf{R} is the heliocentric position vector, $R = |\mathbf{R}|$, and V is the heliocentric speed obtained from

$$V = \sqrt{GM_s \left(\frac{2}{R} - \frac{1}{a} \right)} \quad (6)$$

⁴In this report, we are interested only in transfers which have the same rotational motion about the Sun as the planets; thus, $0 \leq i \leq \pi/2$.

and the path angle Γ is found from

$$\sin \Gamma = \left[\sqrt{\frac{R}{(1-e^2)(2a-R)}} \right] e \sin v \quad (7)$$

In Eq. (6) and (7), GM_s is the universal gravitational constant times the mass of the Sun ($= 2.959122083 \times 10^{-4}$ au³/day²), a and e are the semimajor axis and eccentricity of the transfer ellipse, respectively, and v is the true anomaly of the probe given by

$$\cos v = \frac{a(1-e^2) - R}{eR} \quad (8)$$

3. Lambert's Theorem

Now there are two unknowns in Eq. (5)–(8) which prevent their immediate evaluation. These two unknowns are the semimajor axis a and the eccentricity e . The determination of these quantities is the main problem. Battin (Ref. 5) has shown that the eccentricity is actually a function of the semimajor axis. Thus it is first necessary to determine a . The semimajor axis is related to the time of flight T_F by Lambert's Theorem, which states: *The transfer time between any two points on an ellipse is a function of the sum of the distances of each point from the focus, the distance between the points, and the semimajor axis of the ellipse.* Functionally, the theorem is stated as

$$T_F = T_F(R_L + R_p, C, a) \quad (9)$$

where the distance C between the launch planet at launch time and the target planet at arrival time is shown in Fig. 2 and is obtained from

$$C = |\mathbf{R}_p - \mathbf{R}_L| \quad (10)$$

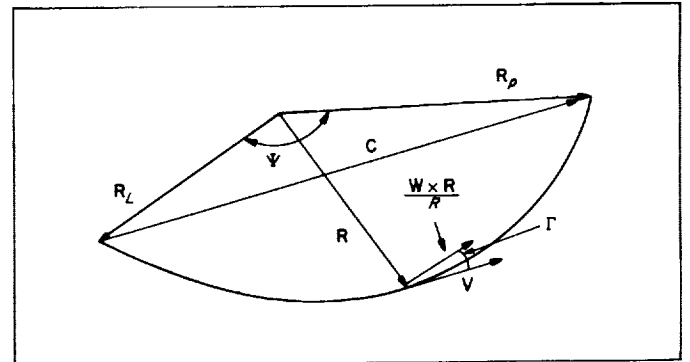


Fig. 2. In-plane transfer geometry

Since the time of flight T_F and the launch and arrival positions R_L and R_p are knowns, only the semimajor axis

remains to be found by iterative solution of Eq. (9). After the semimajor axis a is obtained, the heliocentric velocities of the probe at launch and arrival time \mathbf{V}_L and \mathbf{V}_p may be evaluated from Eq. (5) under the conditions $R = R_L$ and $R = R_p$. The path angles Γ_L , Γ_p and true anomalies⁵ v_L , v_p at launch and arrival times may also be evaluated from Eq. (8) and (7) under the same conditions.

Finally, the desired end result, the hyperbolic-excess velocity \mathbf{V}_{hL} relative to the launch planet may be found (Fig. 3) by

$$\mathbf{V}_{hL} = \mathbf{V}_L - \mathbf{V}_1 \quad (11)$$

where \mathbf{V}_1 is the velocity of the launch planet at launch time.

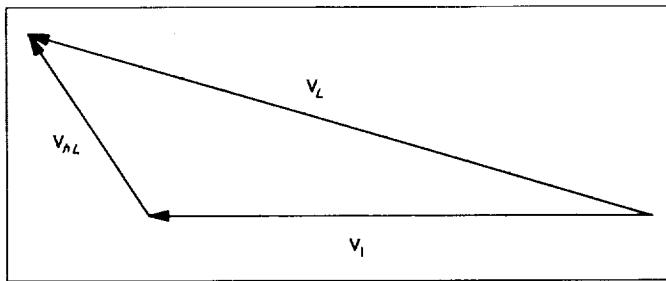


Fig. 3. Determination of the hyperbolic-excess velocity vector \mathbf{V}_{hL}

B. Launch Planet Escape Hyperbola

The key result from the solution of heliocentric transfer is the hyperbolic-excess velocity vector \mathbf{V}_{hL} at launch. The reason for the importance of this vector is that it tells the direction in which the probe must be traveling relative to the launch planet when just leaving its gravitational influence. There are an infinite number of escape trajectories (all hyperbolas) which can have the same hyperbolic-excess velocity vector. However, only a portion of these are practical for use when related to existing launch sites and boost vehicle constraints. For example, it would be ridiculously costly in payload—and impractical—to shoot a vehicle straight up. Criteria for selection of a family of feasible escape trajectories are given below.

1. Assumptions

The solution of the escape phase of motion is obtained under the following assumptions: (1) The probe is acted on only by the gravitational force of the launch planet, and (2) the oblateness effects of the launch planet are neglected.

⁵The details of quadrant choice for these angles are found in Ref. 5.

The direction of the asymptote of the escape hyperbola is found by normalizing the hyperbolic-excess vector \mathbf{V}_{hL} . The injection energy⁶ C_3 of the escape hyperbola is found by squaring the hyperbolic-excess speed, or

$$C_3 = V_{hL}^2 \quad (12)$$

Thus, in contrast to the heliocentric problem, the launch planet is now “massy,” while the influence of the Sun is neglected. However, the hyperbolic-excess velocity vectors found by solving the heliocentric problem are used as a starting point to solve the escape problem.

2. Size and Shape of the Escape Hyperbola

As previously stated, only some of the infinite number of escape trajectories are practical. Two of the practical aspects of a set of trajectories are the sizes and shapes of the hyperbolas.

Size is basically determined by the energy C_3 , which in turn is a function of boost vehicle capability. For boost vehicles in use (or shortly to be available) at this writing, values of energy less than or equal to $25 \text{ km}^2/\text{sec}^2$ are considered reasonable. The larger the value of energy that the booster is required to deliver, the smaller the payload and launch period over which the vehicle may be fired.

The shape of the hyperbola is determined by its eccentricity, which is a function of both the energy and perifocal distance according to

$$e = 1 + \frac{R_p C_3}{GM} \quad (13)$$

where R_p is the perifocal distance and GM is the universal gravitational constant times the mass of the launch planet. From Eq. (13) it can be seen that for a fixed perifocal distance the eccentricity increases linearly with the energy. The value of perifocal distance is not arbitrary, but depends strongly on the boost vehicle trajectory. It has been shown (Ref. 6) that in the great majority of cases it is necessary and desirable to use a circular parking orbit as part of the preinjection phase of the escape trajectory. It is further an interesting fact that the altitude of the parking orbit determines the perifocal distance. If h is the parking orbit altitude and R_0 is the launch planet's radius, then, to an extremely close degree of approximation,

$$R_p = R_0 + h \quad (14)$$

⁶ C_3 is actually twice the total energy per unit mass, i.e., the *vis viva* integral.

with the constraint that the Z component of \mathbf{W} is always positive.

Since \mathbf{R}_L^1 is a function of time, according to the rotation rate of the launch planet, the planar orientation must continually change. In effect, this says that the launch azimuth is a continuous function of launch time.

A detailed description of the geometrical aspects of the launch planet ascent trajectory is not given here but may be found in Ref. 6.

C. Differential Corrections

The calculation of differential corrections for interplanetary trajectories may be accomplished in several ways and depends on choice of independent and dependent variables. In this report, a numerical differencing scheme is used. Basically, the independent variables—the injection energy C_3 , declination Φ_s , and right ascension Θ_s of the outgoing asymptote \mathbf{S} of the escape hyperbola—are varied, one at a time, to produce variations in the dependent variables—the components of the impact parameter \mathbf{B} and the time-of-flight T_F .

The impact parameter \mathbf{B} is defined as a vector originating at the center of the target planet and directed perpendicular to the incoming asymptote of the target-centered approach hyperbola (Fig. 5). The impact parameter \mathbf{B} is resolved into two components which lie in a

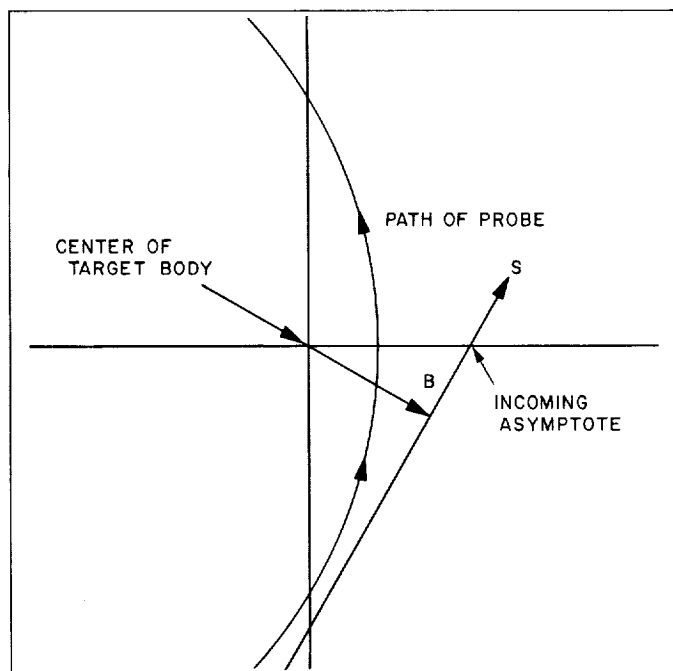


Fig. 5. Impact parameter \mathbf{B}

plane normal to the incoming asymptote \mathbf{S} . The orientations of the reference axes in this plane are arbitrary, but one is usually selected to lie in a fixed plane. Thus, define a unit vector \mathbf{T} , lying in the *ecliptic* plane according to

$$\mathbf{T} = \frac{\mathbf{S} \times \mathbf{K}'}{|\mathbf{S} \times \mathbf{K}'|} \quad (16)$$

where \mathbf{K}' is a unit normal vector to the ecliptic plane. The remaining axis is then given by a unit vector \mathbf{R} , defined by

$$\mathbf{R} = \mathbf{S} \times \mathbf{T} \quad (17)$$

Figure 6 illustrates the orientation of the \mathbf{R} , \mathbf{S} , \mathbf{T} target coordinates.

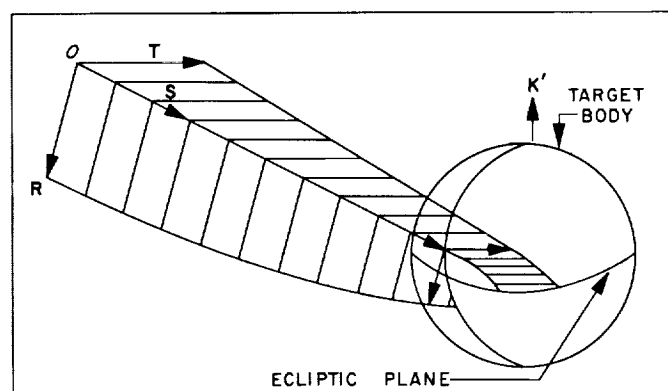


Fig. 6. The \mathbf{R} , \mathbf{S} , \mathbf{T} target coordinate system

The impact parameter \mathbf{B} lies in the \mathbf{R} - \mathbf{T} plane and has miss components $\mathbf{B} \cdot \mathbf{T}$ and $\mathbf{B} \cdot \mathbf{R}$. $\mathbf{B} \cdot \mathbf{T} = \mathbf{B} \cdot \mathbf{R} = 0$ denotes vertical impact on the target. Thus, $\mathbf{B} \cdot \mathbf{T}$, $\mathbf{B} \cdot \mathbf{R}$, and T_F are the three target-dependent variables. If Q_i represents a set of generalized independent variables, such as injection position and velocity or other convenient variables, then the partial derivatives $\partial \mathbf{B} \cdot \mathbf{T} / \partial Q_i$, $\partial \mathbf{B} \cdot \mathbf{R} / \partial Q_i$, $\partial T_F / \partial Q_i$ are first-order differential corrections or error coefficients relating miss at the target and flight time errors to the independent variables.

A convenient set of independent variables for interplanetary trajectories is the *vis viva* injection energy C_3 , the declination Φ_s , and the right ascension Θ_s of the asymptote of the escape hyperbola. These variables essentially describe the launch hyperbolic-excess velocity vector since

$$\mathbf{V}_{hL} = (C_3)^{1/2} (\cos \Phi_s \cos \Theta_s, \cos \Phi_s \sin \Theta_s, \sin \Phi_s) \quad (18)$$

As stated above, the differential corrections are calculated by a numerical differencing method which uses

quantities obtained from the conic trajectory. The basic idea is to compute a varied or perturbed trajectory and then difference it with the reference case. Let primed quantities denote variables on the perturbed trajectory. A small variation $\Delta \mathbf{V}_{hL}$ in the hyperbolic-excess velocity vector is equivalent to a small variation $\Delta \mathbf{V}_L$ in the launch heliocentric velocity vector. The launch heliocentric velocity on the perturbed trajectory is, then,

$$\mathbf{V}'_L = \mathbf{V}_L + \Delta \mathbf{V}_{hL} \quad (19)$$

where

$$\begin{aligned} \Delta \mathbf{V}_{hL} = & (C_3)^{1/2} \Delta \Phi_s [-\sin \Phi_s \cos \Theta_s, -\sin \Phi_s \sin \Theta_s, \cos \Phi_s] , \\ & (C_3)^{1/2} \Delta \Theta_s [-\cos \Phi_s \sin \Theta_s, \cos \Phi_s \cos \Theta_s, 0] , \\ & \frac{-\Delta C_3}{2(C_3)^{1/2}} [\cos \Phi_s \cos \Theta_s, \cos \Phi_s \sin \Theta_s, \sin \Phi_s] \end{aligned}$$

where $\Delta \Phi_s, \Delta \Theta_s$ are small angular variations (0.2 deg), and the energy variation is $\Delta C_3 = 0.005 C_3$.

The semimajor axis a' is obtained from

$$a' = \frac{R_L}{2 - \frac{V_L'^2 R_L}{GM_s}} \quad (20)$$

The radial rate \dot{R}_L' is

$$\dot{R}_L' = \frac{\mathbf{V}_L' \cdot \mathbf{R}_L}{R_L} \quad (21)$$

The semilatus rectum p' and eccentricity e' are

$$p' = \frac{R_L^2 (V_L'^2 - \dot{R}_L'^2)}{GM_s} \quad (22)$$

$$e' = \left(1 - \frac{p'}{a'}\right)^{1/2} \quad (23)$$

The eccentric anomaly at launch E'_L is

$$\begin{aligned} \sin E'_L &= \frac{R_L \dot{R}_L'}{e' (a' GM_s)^{1/2}} \\ \cos E'_L &= \frac{1}{e'} \left(1 - \frac{R_L}{a'}\right) \end{aligned} \quad (24)$$

The mean anomaly at launch M'_L is obtained from

$$M'_L = E'_L - e' \sin E'_L \quad (25)$$

The mean orbital rate n' is

$$n' = \frac{(GM_s)^{1/2}}{a'^{3/2}} \quad (26)$$

The mean anomaly at the target M'_p is

$$M'_p = n' T_F + M'_L \quad (27)$$

The eccentric anomaly at the target E'_p is obtained from the expansion

$$\begin{aligned} E'_p = E_p + & \left(\frac{1}{1 - e' \cos E_p} \right) \Delta M - \frac{1}{2} \left[\frac{e' \sin E_p}{(1 - e' \cos E_p)^3} \right] \Delta M^2 \\ & + \frac{1}{6} \left[\frac{3e' \sin E_p^2 - (1 - e' \cos E_p)(e' \cos E_p)}{(1 - e' \cos E_p)^5} \right] \Delta M^3 \end{aligned} \quad (28)$$

if

$$\cos E_p \geq 0$$

or

$$E'_p = E_p + \frac{e \cos E_p - 1 + \sqrt{(e \cos E_p - 1)^2 + (2e \sin E_p) \Delta M}}{e \sin E_p} \quad (29)$$

if

$$\cos E_p < 0$$

where

$$\Delta M = M'_p - (E_p - e' \sin E_p)$$

The true anomalies at launch and the target v'_L and v'_p are found from

$$\cos v'_L = \frac{p' - R_L}{e' R_L} \quad (30)$$

$$0 < v'_L < \pi \quad \text{if } \dot{R}_L' \text{ is positive}$$

$$\pi < v'_L < 2\pi \quad \text{if } \dot{R}_L' \text{ is negative}$$

$$\cos v'_p = \frac{\cos E'_p - e'}{1 - e' \cos E'_p} \quad (31)$$

$$\sin v'_p = \frac{(1 - e'^2)^{1/2} \sin E'_p}{1 - e' \cos E'_p}$$

The heliocentric central angle Ψ' is

$$\Psi' = v'_p - v'_L \quad (32)$$

The angular momentum \mathbf{h}' is

$$\mathbf{h}' = \mathbf{R}_L \times \mathbf{V}'_L \quad (33)$$

The heliocentric position vector at the target is

$$\mathbf{R}'_p = R'_p \left(\frac{\mathbf{R}_L}{R_L} \cos \Psi' + \frac{\mathbf{h}' \times \mathbf{R}_L}{h' R_L} \sin \Psi' \right) \quad (34)$$

where

$$R'_p = a' (1 - e' \cos E'_p) \quad (35)$$

A vector in the direction of perihelion with magnitude e' is

$$\boldsymbol{\epsilon}' = \frac{\mathbf{V}'_L \times \mathbf{h}'}{GM_s} - \frac{\mathbf{R}_L}{R_L} \quad (36)$$

The heliocentric velocity at the target is

$$\mathbf{V}'_p = \frac{\mathbf{h}'}{p'} \times \left(\frac{\mathbf{R}'_p}{R'_p} + \boldsymbol{\epsilon}' \right) \quad (37)$$

The hyperbolic-excess velocity at the target is

$$\mathbf{V}'_{hp} = \mathbf{V}'_p - \mathbf{V}_2 \quad (38)$$

The difference between the heliocentric position vectors on the perturbed and reference trajectories is

$$\Delta \mathbf{R}'_p = \mathbf{R}'_p - \mathbf{R}_p \quad (39)$$

The impact parameter \mathbf{B} is

$$\mathbf{B} = - \frac{(\Delta \mathbf{R}'_p \cdot \mathbf{V}'_{hp}) \mathbf{V}'_{hp}}{V'^2_{hp}} + \Delta \mathbf{R}'_p$$

The flight time error is

$$\Delta T_F = \frac{\Delta \mathbf{R}'_p \cdot \mathbf{V}'_{hp}}{V'^2_{hp}} \quad (40)$$

The partial derivatives are formed by dividing $\Delta \Theta_s$, $\Delta \Phi_s$, and ΔC_3 into the miss components $\mathbf{B} \cdot \mathbf{T}$, $\mathbf{B} \cdot \mathbf{R}$, and flight time error ΔT_F . In addition to the component partials, the quantity $\partial B / \partial Q_i$ is defined by

$$\frac{\partial B}{\partial Q_i} = \left[\left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial Q_i} \right)^2 + \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial Q_i} \right)^2 \right]^{1/2} \quad (41)$$

The three partials, $\partial B / \partial \Theta_s$, $\partial B / \partial \Phi_s$, $\partial B / \partial C_3$, are important measures of the error sensitivity of a trajectory.

The effect of uncertainty in the knowledge of the astronomical unit-to-kilometer conversion factor on target miss and flight time may be determined by the following formulae,

$$\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial au} = \frac{-2C_3}{au} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \quad (42)$$

$$\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial au} = \frac{-2C_3}{au} \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3}$$

from whence

$$\frac{\partial B}{\partial au} = \frac{2C_3}{au} \frac{\partial B}{\partial C_3} \quad (43)$$

and

$$\frac{\partial T_F}{\partial au} = \frac{-2C_3}{au} \frac{\partial T_F}{\partial C_3} \quad (44)$$

where au is the astronomical unit-to-kilometer conversion factor.

The effect of solar radiation pressure acting on the probe may also be evaluated as follows: In Eq. (19) let $\Delta \mathbf{V}_{hL} = 0$, but in Eq. (20), (22), (24), (26), (36), vary GM_s by adding an increment ΔGM_s . This procedure gives rise to a varied trajectory from which the impact parameter \mathbf{B} and flight time error ΔT_F may be obtained. The partials $\partial B / \partial GM_s$ and $\partial T_F / \partial GM_s$ may then be calculated. Since the acceleration caused by solar radiation pressure acts opposite to the gravitational attraction of the Sun, radiation pressure has the effect of decreasing the Sun's gravitational attraction, or decreasing GM_s . A decrease, $\Delta GM_s = -2.4 \times 10^6 \text{ km}^3/\text{sec}^2$ corresponds to the solar radiation pressure acting on a 300-kg spacecraft having a perfectly reflecting area of 3.6 square meters. Thus the miss, always being a positive number, is obtained by $\Delta B_{sp} = 2.4 \times 10^6 \partial B / \partial GM_s$, and the corresponding flight time error is $\Delta T_{Fsp} = -2.4 \times 10^6 \partial T_F / \partial GM_s$, which is sign sensitive.

D. Mid-Course Execution Accuracy

The effect of mid-course execution errors on target accuracy can be rather simply described if it is assumed that the guidance maneuver is made on the asymptote of the escape hyperbola and that the velocity errors are spherically distributed (that is, the three-dimensional statistical distribution of velocity errors is composed of three orthogonal, independent velocity errors, each with the same variance). The mapping of these errors to the target (Fig. 7) results in a three-dimensional ellipsoid of position errors, which is the "one-sigma ellipsoid." The semiaxes are the respective standard deviations of the position errors. As pointed out above, this ellipsoid can be thought of as the locus of target errors that results from a unit velocity error at the mid-course point tracing out a sphere.

Let the differential corrections discussed above be expressed in matrix form as

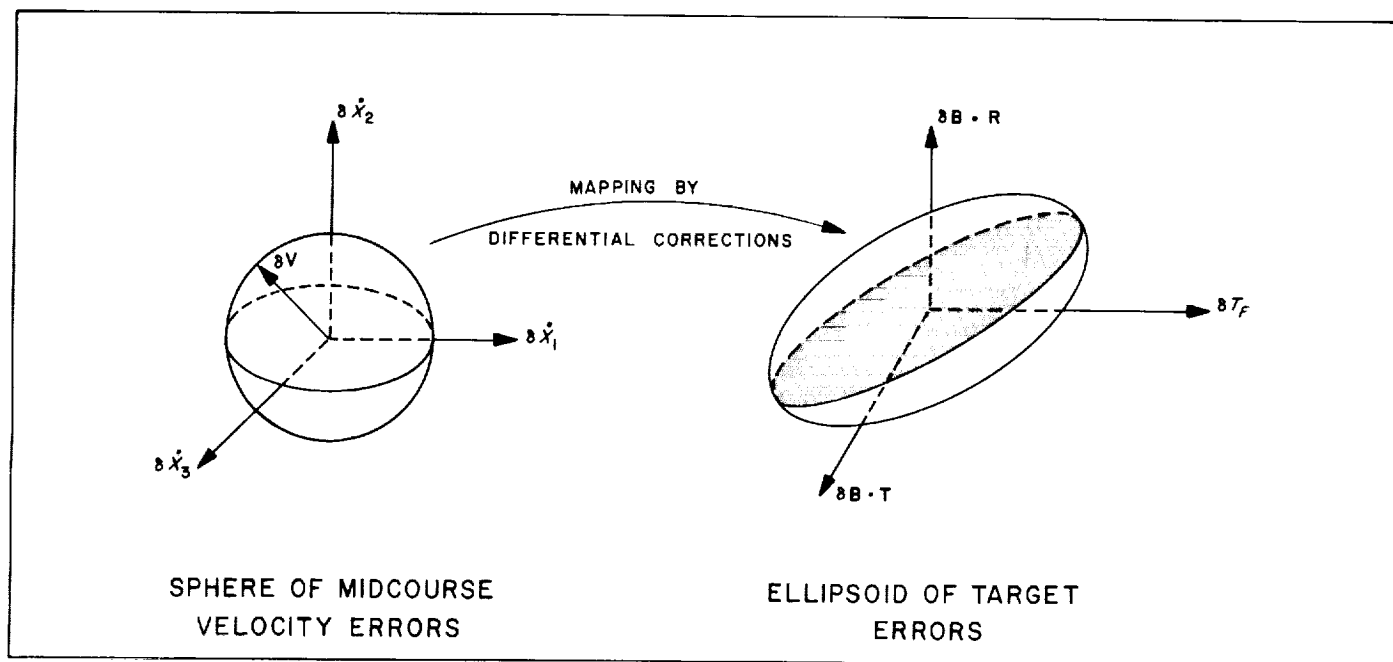


Fig. 7. The mapping of mid-course execution error

$$K = \begin{bmatrix} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_S} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_S} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_S} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_S} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \\ \frac{\partial T_F}{\partial \Phi_S} & \frac{\partial T_F}{\partial \Theta_S} & \frac{\partial T_F}{\partial C_3} \end{bmatrix} \quad (45)$$

Now define a Cartesian coordinate system X_1, X_2, X_3 such that

$$\left. \begin{aligned} \delta \dot{X}_1 &= V_{hL} \delta \Phi_S \\ \delta \dot{X}_2 &= -(V_{hL} \cos \Phi_S) \delta \Theta_S \\ \delta \dot{X}_3 &= \delta V_{hL} = \frac{\delta C_3}{2V_{hL}} \end{aligned} \right\} \quad (46)$$

Then a new matrix F can be formed,

$$F = \begin{bmatrix} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_1} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_2} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_3} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_1} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_2} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_3} \\ \frac{\partial T_F}{\partial \dot{X}_1} & \frac{\partial T_F}{\partial \dot{X}_2} & \frac{\partial T_F}{\partial \dot{X}_3} \end{bmatrix} \quad (47)$$

where

$$\left. \begin{aligned} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_1} &= \frac{1}{V_{hL}} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_S} \\ \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_2} &= \frac{-1}{V_{hL} \cos \Phi_S} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_S} \\ \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_3} &= 2V_{hL} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_1} &= \frac{1}{V_{hL}} \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_S} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_2} &= \frac{-1}{V_{hL} \cos \Phi_S} \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_S} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_3} &= 2V_{hL} \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \\ \frac{\partial T_F}{\partial \dot{X}_1} &= \frac{1}{V_{hL}} \frac{\partial T_F}{\partial \Phi_S} \\ \frac{\partial T_F}{\partial \dot{X}_2} &= \frac{-1}{V_{hL} \cos \Phi_S} \frac{\partial T_F}{\partial \Theta_S} \\ \frac{\partial T_F}{\partial \dot{X}_3} &= 2V_{hL} \frac{\partial T_F}{\partial C_3} \end{aligned} \right\} \quad (48)$$

Let the spherical distribution of midcourse velocity errors be described in the X_1, X_2, X_3 system as

$$\delta\dot{X}_1^2 + \delta\dot{X}_2^2 + \delta\dot{X}_3^2 = \sigma_v^2 \quad (49)$$

where σ_v will be taken equal to 0.1 meters/sec. The resultant one-sigma ellipsoid of target errors is described by the quadratic form,

$$\delta\mathbf{M} \Lambda^{-1} \delta\mathbf{M}^T = 1 \quad (50)$$

where

$$\Lambda = \sigma_v^2 \mathbf{F} \mathbf{F}^T = \begin{bmatrix} \lambda_{11} & \lambda_{12} & \lambda_{13} \\ & \lambda_{22} & \lambda_{23} \\ \text{symmetric} & & \lambda_{33} \end{bmatrix} \quad (51)$$

and

$$\delta\mathbf{M} = (\delta\mathbf{B} \cdot \mathbf{T}, \delta\mathbf{B} \cdot \mathbf{R}, \delta T_F)$$

The elements of the Λ matrix are:

$$\begin{aligned} \lambda_{11} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_s} \right)^2 + \frac{1}{C_3 \cos^2 \Phi_s} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_s} \right)^2 + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \right)^2 \right] \\ \lambda_{12} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_s} \right) \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_s} \right) + \frac{1}{C_3 \cos^2 \Phi_s} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_s} \right) \times \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_s} \right) + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \right) \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \right) \right] \\ \lambda_{13} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_s} \right) \left(\frac{\partial T_F}{\partial \Phi_s} \right) + \frac{1}{C_3 \cos^2 \Phi_s} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_s} \right) \left(\frac{\partial T_F}{\partial \Theta_s} \right) + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \right) \left(\frac{\partial T_F}{\partial C_3} \right) \right] \\ \lambda_{22} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_s} \right)^2 + \frac{1}{C_3 \cos^2 \Phi_s} \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_s} \right)^2 + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \right)^2 \right] \\ \lambda_{23} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_s} \right) \left(\frac{\partial T_F}{\partial \Phi_s} \right) + \frac{1}{C_3 \cos^2 \Phi_s} \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_s} \right) \left(\frac{\partial T_F}{\partial \Theta_s} \right) + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \right) \left(\frac{\partial T_F}{\partial C_3} \right) \right] \\ \lambda_{33} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial T_F}{\partial \Phi_s} \right)^2 + \frac{1}{C_3 \cos^2 \Phi_s} \left(\frac{\partial T_F}{\partial \Theta_s} \right)^2 + 4C_3 \left(\frac{\partial T_F}{\partial C_3} \right)^2 \right] \end{aligned} \quad (52)$$

The quantities in the Λ matrix can be interpreted as standard deviations (sigmas) and correlation coefficients (rhos) according to

$$\left. \begin{aligned} \sigma_T &= (\lambda_{11})^{1/2} \\ \sigma_R &= (\lambda_{22})^{1/2} \\ \sigma_F &= (\lambda_{33})^{1/2} \\ \rho_{RT} &= \frac{\lambda_{12}}{(\lambda_{11} \lambda_{22})^{1/2}} \\ \rho_{TF} &= \frac{\lambda_{13}}{(\lambda_{11} \lambda_{33})^{1/2}} \\ \rho_{RF} &= \frac{\lambda_{23}}{(\lambda_{22} \lambda_{33})^{1/2}} \end{aligned} \right\} \quad (53)$$

Then the Λ matrix becomes

$$\Lambda = \begin{bmatrix} \sigma_T^2 & \rho_{RT} \sigma_R \sigma_T & \rho_{TF} \sigma_F \sigma_T \\ & \sigma_R^2 & \rho_{RF} \sigma_R \sigma_F \\ \text{symmetric} & & \sigma_F^2 \end{bmatrix} \quad (54)$$

It is often of interest when describing only miss components to consider

$$\sigma_B = (\sigma_R^2 + \sigma_T^2)^{1/2} \quad (55)$$

and to diagonalize the upper 2×2 portion of the Λ (the miss component elements) to get

$$\Lambda^* = \mathbf{L} \Lambda \mathbf{L}^T = \begin{bmatrix} \sigma_1^2 & 0 & \rho_{13} \sigma_1 \sigma_3 \\ & \sigma_2^2 & \rho_{23} \sigma_2 \sigma_3 \\ \text{symmetric} & & \sigma_3^2 \end{bmatrix} \quad (56)$$

where the matrix \mathbf{L} is given by

$$L = \begin{bmatrix} \cos \theta & \sin \theta & 0 \\ -\sin \theta & \cos \theta & 0 \\ 0 & 0 & 1 \end{bmatrix} \quad (57)$$

The angle θ is positive when turned counterclockwise from the **T** axis, and has been chosen such that $\sigma_1 \geq \sigma_2$. This is accomplished by

$$\theta = \frac{1}{2} \tan^{-1} \left[\frac{2\rho_{RT}}{\left(\frac{\sigma_T}{\sigma_R}\right) - \left(\frac{\sigma_R}{\sigma_T}\right)} \right] \quad (58)$$

where θ is in first quadrant if ρ_{RT} is positive and θ is in second quadrant if ρ_{RT} is negative. Notice that $\sigma_3 = \sigma_F$. The two-dimensional error ellipse described by σ_1 , σ_2 , and θ is the projection of all points of the three-dimensional ellipsoid of position errors (discussed in Section IIE) onto the **T-R** plane, as shown in Fig. 8.

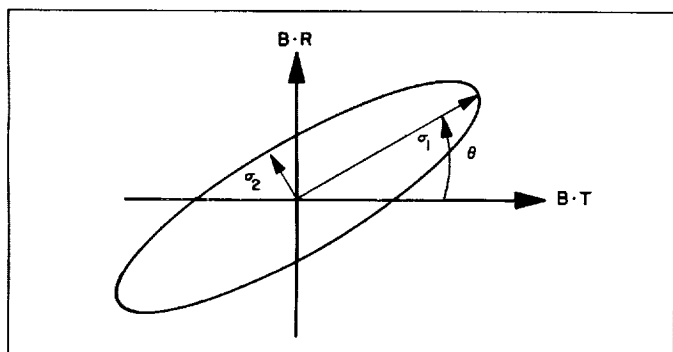


Fig. 8. Projection of three-dimensional error ellipsoid on the **T-R** plane

E. Orbit Determination Accuracy

In this section the analytic model used for describing orbit determination accuracy (tracking error) for interplanetary trajectories is discussed, and the factors upon which the tracking error depends are reviewed. The dominant error sources are defined for the easterly launchings from Cape Canaveral using tracking coverage supplied by NASA's Deep Space Instrumentation Facility (DSIF). Probable generalization to other situations is suggested. Finally, the method of describing target errors is presented along with all formulae relating the tracking errors to the target error parameters chosen.

I. Method of Describing Orbit Determination Accuracy

As discussed in Section IID, the uncertainties in our knowledge of an interplanetary trajectory are well described in terms of the direction and magnitude of the geocentric hyperbolic-excess velocity vector, V_{hL} . Figure 9 defines the right-handed Cartesian coordinate system we have adopted for describing uncertainties in V_{hL} . The X_3 axis is along V_{hL} ; the X_1 axis is in the direction of a positive differential change in asymptote declination Φ_S ; and the X_2 axis completes the system.

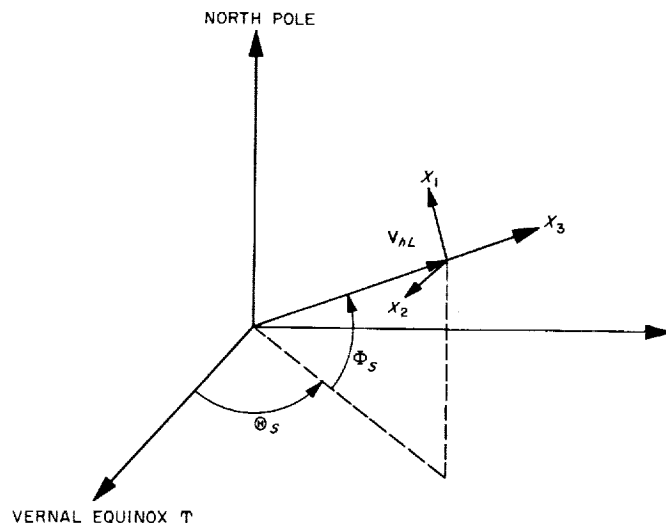


Fig. 9. Orientation of the X_i Cartesian coordinate system to describe uncertainties in the hyperbolic-excess velocity vector V_{hL}

Let $\dot{\mathbf{X}}$ represent the vector of velocity errors in the X_i system just described; $\dot{\mathbf{X}} = (\delta\dot{X}_1, \delta\dot{X}_2, \delta\dot{X}_3)^T$, where T indicates the transpose. The average of any function of $\dot{\mathbf{X}}$, $f(\dot{\mathbf{X}})$, over an ensemble of randomly generated tracking runs may assist in describing our statistical knowledge of $\dot{\mathbf{X}}$ based on tracking noise, station location, and physical constant uncertainties. The ensemble average is usually written $Ef(\dot{\mathbf{X}})$ or as $\tilde{f}(\dot{\mathbf{X}})$. When $\dot{\mathbf{X}}$ has a Gaussian (normal) probability density function, the distribution can be described completely by specifying $E\dot{\mathbf{X}}$ and $E[(\dot{\mathbf{X}} - \tilde{\dot{\mathbf{X}}})(\dot{\mathbf{X}} - \tilde{\dot{\mathbf{X}}})^T]$, the mean and covariance of $\dot{\mathbf{X}}$, respectively.

When all parameters influencing our knowledge of $\dot{\mathbf{X}}$ have been considered, $E\dot{\mathbf{X}}$ should be zero and then the description of our uncertainties in $\dot{\mathbf{X}}$ can be adequately given by Covar $\dot{\mathbf{X}}$, defined above. For convenience, the symbol $\Lambda_{\dot{\mathbf{X}}}$, for Covar $\dot{\mathbf{X}}$, is introduced.

$$\Lambda_{\dot{\mathbf{X}}} = \text{Covar } \dot{\mathbf{X}} = E \left[(\dot{\mathbf{X}} - \tilde{\dot{\mathbf{X}}})(\dot{\mathbf{X}} - \tilde{\dot{\mathbf{X}}})^T \right] \quad (59)$$

Note that

$$\Lambda_{\dot{\mathbf{X}}} = \begin{pmatrix} \delta\dot{\mathbf{X}}_1\delta\dot{\mathbf{X}}_1 & \delta\dot{\mathbf{X}}_1\delta\dot{\mathbf{X}}_2 & \delta\dot{\mathbf{X}}_1\delta\dot{\mathbf{X}}_3 \\ \delta\dot{\mathbf{X}}_2\delta\dot{\mathbf{X}}_1 & \delta\dot{\mathbf{X}}_2\delta\dot{\mathbf{X}}_2 & \delta\dot{\mathbf{X}}_2\delta\dot{\mathbf{X}}_3 \\ \delta\dot{\mathbf{X}}_3\delta\dot{\mathbf{X}}_1 & \delta\dot{\mathbf{X}}_3\delta\dot{\mathbf{X}}_2 & \delta\dot{\mathbf{X}}_3\delta\dot{\mathbf{X}}_3 \end{pmatrix} \quad (60)$$

is a 3×3 real symmetric matrix. The diagonal terms are the variances of the three components, and the off-diagonal terms measure the correlation between the three components.

Before describing how $\Lambda_{\dot{\mathbf{X}}}$ has been "mapped" into target error uncertainties, a discussion is given of the dependence of $\Lambda_{\dot{\mathbf{X}}}$ upon the relevant factors describing near-Earth tracking as well as the typical errors assumed in preparing the estimates given in this report.

2. Accuracy of Near-Earth Tracking

By expressing the accuracy of near-Earth tracking in terms of $\dot{\mathbf{X}}$ and its associated covariance $\Lambda_{\dot{\mathbf{X}}}$, the dependence upon almost all trajectory parameters has been eliminated. The remaining relevant trajectory parameters are listed in Table 1.

Table 1. Trajectory parameters influencing tracking accuracy

1. Launch site	
2. Launch azimuth Σ_L	Depends on launch time.
3. Injection region	Depends on time in parking orbit; short or long coast less than 1 revolution is current practice.
4. Declination of \mathbf{V}_{hL} , Φ_S	Depends on target position at arrival date and injection energy, C_3 .
5. Magnitude of $\mathbf{V}_{hL} = \mathbf{V}_{hL} = (C_3)^{1/2}$	

Note the limited number of trajectory parameters on which $\Lambda_{\dot{\mathbf{X}}}$ depends. Table 2 summarizes the key tracking station parameters which influence accuracy in the geocentric tracking phase.

The first three factors listed in Table 2 define the tracking configuration, whereas the last three are station performance factors. Usually, tracking accuracy studies are carried out with the tracking configuration relatively fixed, and the influence of the station performance factors are determined.

The final source of tracking error is uncertainty in physical constants. The influence of GM-Earth errors is somewhat smaller than the above-mentioned errors and should be reduced to negligible contribution in the next two years. Sections IIC and IIIC describe how the uncertainty in the astronomical unit affects the target error; this error

Table 2. Tracking station parameters influencing tracking accuracy

1. Station locations	A spread of latitudes is very desirable.
2. Total tracking time	
3. Tracking data types	Range R , range rate \dot{R} , and angles are most commonly taken.
4. Delay in acquiring first data	Delay is measured from the injection region as well as station acquisition delays.
5. Tracking data accuracies	Expressed in terms of equivalent uncorrelated noise at a given sampling rate.
6. Uncertainty in tracking station locations	Important when high data accuracies are available. Longitude errors usually are most important.

can be important for very long flights, but should also be reduced to a negligible contribution in the next two years. Errors in the target's mass cause minor variations in flight time T_F and negligible effect on \mathbf{B} . The last important target error source currently recognized is the uncertainty in the effect of the standard solar radiation pressure on spacecraft trajectory. The source of uncertainty is that effective reflecting area (largely solar panels) is not perfectly known. Techniques for the accurate measurement of this quantity are currently under development. Our studies show that unless this error is held below 5% it will be the dominant error source on many of our flights. Sections IIC and IIIC describe the calculation of the standard solar radiation pressure on a typical spacecraft deriving electrical power from the Sun.

The tracking accuracies reported here are representative of those available from tracking with the DSIF stations in South Africa, Australia, and the United States. Launch azimuths between 90 and 114 deg east of north were considered. Data accuracies of 0.02 m/sec in \dot{R} and 0.05 deg in angle sampled every 10 minutes were assumed; no range measurements were assumed. Station location errors were assumed to be uncorrelated with standard deviations of 0.001 deg in latitude, 0.0005 deg in longitude, and 30 meters in radius. Each station was allowed 10 minutes to acquire the spacecraft transponder, and tracking was simulated in the first 24 hours so that at least one pass was available to each station. The transfer of transmitting assignment from one station to another (simultaneous transmission was not allowed) followed a pattern which has been found to be near-optimum.

The $\Lambda_{\dot{\mathbf{X}}}$ matrix used in these calculations was assumed to be independent of the trajectory parameters listed in Table 1. This approximation is good for the range of energies and asymptotic declinations considered to be

most feasible. In the future these approximations will be refined as necessary. The $\Delta \dot{\mathbf{x}}$ used for orbit determination accuracy in this report is given in Section III E. The target accuracies calculated here are typical for any reasonable multistation tracking configuration, with the data types and accuracies corresponding to this conservative representation of DSIF capabilities.

3. Calculation of Target Errors

The representation of tracking accuracy in the geocentric phase in terms of $\Delta \dot{\mathbf{x}}$, the covariance of the \mathbf{V}_{hL} in a particular rectangular coordinate system, was developed earlier in this section. In order to express the effect of these uncertainties in \mathbf{V}_{hL} in terms of target error, two steps must be performed. First, a set of coordinates \mathbf{M}_1 at the target planet for expressing the errors (\mathbf{M}_1 cannot exceed 3 dimensions) must be chosen. (A convenient set with desirable linearity properties is the T-R-S system defined previously.) The matrix U_1 , which maps $\dot{\mathbf{x}}$ to the desired \mathbf{M}_1 , is then determined.

$$\mathbf{M}_1 = U_1 \dot{\mathbf{x}} = \begin{pmatrix} \delta \mathbf{B} \cdot \mathbf{T} \\ \delta \mathbf{B} \cdot \mathbf{R} \\ \delta S \end{pmatrix} \quad (61)$$

The covariance of \mathbf{M}_1 is given by

$$\text{Covar} [\mathbf{M}_1] = \overline{\mathbf{M}_1 \mathbf{M}_1^T} = U_1 \Delta \dot{\mathbf{x}} U_1^T = \Delta_{\mathbf{M}_1} \quad (62)$$

The determination of U_1 for the coordinates chosen follows the lines of Section IID. It is presumed that the K-matrix is given, where

$$K = \begin{bmatrix} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_S} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_S} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_S} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_S} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \\ \frac{\partial T_F}{\partial \Phi_S} & \frac{\partial T_F}{\partial \Theta_S} & \frac{\partial T_F}{\partial C_3} \end{bmatrix} \quad (45)$$

By postmultiplying K by

$$A = \begin{bmatrix} \frac{1}{V_{hL}} & 0 & 0 \\ 0 & \frac{-1}{V_{hL} \cos \Phi_S} & 0 \\ 0 & 0 & 2V_{hL} \end{bmatrix} \quad (63)$$

the F matrix is obtained.

$$F = KA \quad (47)$$

The F matrix must now be adjusted to transform into the T-R-S coordinates used for \mathbf{M}_1 . This transformation B is simply

$$B = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & -V_{hp} \end{bmatrix} \quad (64)$$

since $\delta S = -V_{hp} \delta T_L$. Thus our U_1 matrix is given by

$$U_1 = B(KA) = BF \quad (65)$$

Now the mapping given in Eq. (62) to obtain $\Delta_{\mathbf{M}_1}$ is applied. Since all of the coordinates of \mathbf{M}_1 have the same dimensions (length squared), the one-sigma ellipsoid described by the quadratic form

$$\delta \mathbf{M}_1 \Delta_{\mathbf{M}_1}^{-1} \delta \mathbf{M}_1^T = 1 \quad (66)$$

has physical significance. The three principal axes of this ellipsoid are the square roots of the 3-eigenvalues of the $\Delta_{\mathbf{M}_1}$ matrix. The formulas used are standard and are not reproduced here. The projection of the three-dimensional ellipsoid on to the T-R plane is an ellipse. Its major and minor semiaxes and orientation of the major axis are calculated by the same procedure used in Section IID. It is often convenient to write $\Delta_{\mathbf{M}_1}$ in an alternate form:

$$\Delta_{\mathbf{M}_1} = \begin{bmatrix} \sigma_T^2 & \rho_{RT} \sigma_T \sigma_R & \rho_{TS} \sigma_T \sigma_S \\ \rho_{RT} \sigma_R \sigma_T & \sigma_R^2 & \rho_{RS} \sigma_R \sigma_S \\ \rho_{TS} \sigma_S \sigma_T & \rho_{RS} \sigma_S \sigma_R & \sigma_S^2 \end{bmatrix} \quad (67)$$

It can be seen that $\Delta_{\mathbf{M}_1}$ is completely described by σ_T , σ_R , σ_S , ρ_{TS} , ρ_{RS} , ρ_{TR} , because of its symmetry.

III. EXPLANATION OF TRAJECTORY TABLES

Tabular listings of pertinent quantities of the heliocentric and planetocentric trajectories, differential corrections, guidance, and orbit determination parameters are given at 1-day launch date intervals and 2-day flight time intervals over the selected launch period. The launch period is selected to encompass the minimum energy transfer dates obtained from Ref. 7 and 8. A summary of the characteristics of these trajectories is given in Ref. 7.

Each trajectory begins with a header giving launch date, flight time (in days), and arrival date. All the heliocentric transfer trajectories are calculated assuming launch into the heliocentric orbit at 0 hours of the launch date and arrival at 0 hours of the arrival date. Later, however, when the launch-planet ascent trajectories are computed, the actual launch times during the launch day for each launch azimuth are given.

Each page lists four trajectories, each of which is divided into five basic print groups: HELIOCENTRIC CONIC, PLANETOCENTRIC CONIC, DIFFERENTIAL CORRECTIONS, MID-COURSE EXECUTION ACCURACY, and ORBIT DETERMINATION ACCURACY. Each quantity is assigned an identifying alphabetic symbol of no more than three letters. The definitions of the symbols and quantities they represent are given below. All pertinent quantities are referenced to the mean equinox and equator, or ecliptic, of *launch* date.

A. Heliocentric Conic Group

The HELIOCENTRIC CONIC group gives the characteristics of the heliocentric transfer ellipse, such as the position and velocity vectors at launch and arrival, some orbital elements, and other quantities of engineering interest. The printout array is as follows:

HELIOCENTRIC CONIC	DISTANCE
RL LAL LOL VL GAL AZL HCA SMA ECC INC V1	
RP LAP LOP VP GAP AZP TAL TAP RCA APO V2	
RCGL GP ZAL ZAP ETS ZAE ETE ZAC ETC CLP	

After the words HELIOCENTRIC CONIC, the heliocentric arc DISTANCE traveled by the spacecraft from launch to arrival is printed. The quantities are defined as follows (all angles are in deg; distances are in millions of km; speeds are in km/sec):

Line 1	
RL, $R_L = R_L $	the heliocentric radius of the launch planet at 0 hours of the launch date.
LAL, β_L	the celestial latitude of the launch planet at 0 hours of the launch date.
LOL, λ_L	the celestial longitude of the launch planet at 0 hours of the launch date.
VL, $V_L = V_L $	the heliocentric speed of the probe at 0 hours of the launch date.
GAL, Γ_L	the path angle of the probe at 0 hours of the launch date, i.e., the complement of the angle between the position and velocity vectors, R_L and V_L , defined by

$$\sin \Gamma_L = \frac{R_L \cdot V_L}{R_L V_L} \quad -\frac{\pi}{2} \leq \Gamma_L \leq \frac{\pi}{2}$$

AZL, Σ_L	the azimuth angle of the probe at 0 hours of the launch date, i.e., the angle, measured in a plane perpendicular to the radius vector R_L , between the projection of the ecliptic north and the projection of the velocity vector V_L on the plane perpendicular to R_L , defined by
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$$\cos \Sigma_L = \frac{V_L \cdot \Psi^1}{V_L \cos \Gamma_L} \quad 0 \leq \Sigma_L \leq 2\pi$$

$$\sin \Sigma_L = \frac{(R_L \times V_L) \cdot \Psi^1}{|R_L \times V_L|}$$

where $\Psi^1 = (K' - R_L^1 \sin \beta_L) \sec \beta_L$, where the superscript 1 denotes a unit vector.

HCA, ψ	the heliocentric central angle, or angle between the position vector R_L , of the launch planet at 0 hours of the launch date and the position vector R_p , of the target planet at 0 hours of the arrival date. This angle is defined by Eq. (3) and (4) and illustrated in Fig. 1.
SMA, a	the semimajor axis of the heliocentric transfer ellipse.

ECC, e	the eccentricity of the heliocentric transfer ellipse.	GL, γ_L	the angle between the launch hyperbolic-excess velocity vector V_{hL} and its projection on the orbital plane of the launch planet, defined by
INC, i	the inclination of the heliocentric transfer ellipse.		
VL, $V_1 = V_1 $	the heliocentric speed of the launch planet at 0 hours of the launch date.		
Line 2			
RP, $R_p = R_p $	the heliocentric radius of the target planet at 0 hours of the arrival date.		
LAP, β_p	the celestial latitude of the target planet at 0 hours of the arrival date.		
LOP, λ_p	the celestial longitude of the target planet at 0 hours of the arrival date.	GP, γ_p	the angle between the incoming arrival hyperbolic-excess velocity vector V_{hp} and its projection on the target planet's orbital plane, defined by
VP, $V_p = V_p $	the heliocentric speed of the probe at 0 hours of the arrival date.		
GAP, Γ_p	the path angle of the probe at 0 hours of the arrival date, defined the same as Γ_L except that R_p and V_p are substituted for R_L and V_L .		
AZP, Σ_p	the azimuth angle of the probe at 0 hours of the arrival date, defined the same as Σ_L except that R_p and V_p are substituted for R_L and V_L .		
TAL, v_L	the true anomaly of the probe in the heliocentric transfer ellipse at 0 hours of the launch date.		
TAP, v_p	the true anomaly of the probe in the heliocentric transfer ellipse at 0 hours of the arrival date.	ZAL, ζ_L	the angle between the outgoing launch asymptote (or hyperbolic-excess velocity vector) and the launch heliocentric radius vector R_L at launch time. This is the Sun-launch-planet-probe angle and is a good approximation to the launch-planet-probe-Sun angle as the probe leaves the launch planet. It is an important quantity in the design of attitude control systems which use the Sun and launch planet as optical references. The quantity ζ_L is defined as follows:
RCA, R_{cA}	the perihelion distance of the heliocentric transfer ellipse. This distance is printed even though the probe may not transit perihelion.		
APO, R_A	the aphelion distance of the heliocentric transfer ellipse. This distance is printed even though the probe may not transit aphelion.		
V2, $V_2 = V_2 $	the heliocentric speed of the target planet at 0 hours of the arrival date.		
Line 3			
RC, R_c	the communication distance, or distance between the launch and target planets at 0 hours of the arrival date.		

$$\sin \gamma_L = \frac{W_1 \cdot V_{hL}}{V_{hL}} \quad -\frac{\pi}{2} \leq \gamma_L \leq \frac{\pi}{2}$$

where W_1 is a unit normal to the launch planet's orbital plane. This angle is useful in describing the direction in which the probe leaves the launch planet.

$$\sin \gamma_p = \frac{W_2 \cdot V_{hp}}{V_{hp}} \quad -\frac{\pi}{2} \leq \gamma_p \leq \frac{\pi}{2}$$

where W_2 is a unit normal to the target planet's orbital plane. This angle is useful in determining whether the probe is approaching from above or below the target planet. If γ_p is positive, the probe approaches from below—if negative, from above.

$$\cos \zeta_L = \frac{V_{hL} \cdot R_L^1}{V_{hL}} \quad 0 \leq \zeta_L \leq \pi$$

The next six quantities, all angles, have the same general definition. They are important in the design of the near-target trajectory and are used in determining the aiming point for interplanetary flyby trajectories. Consider the target-centered geometry of Fig. 10.

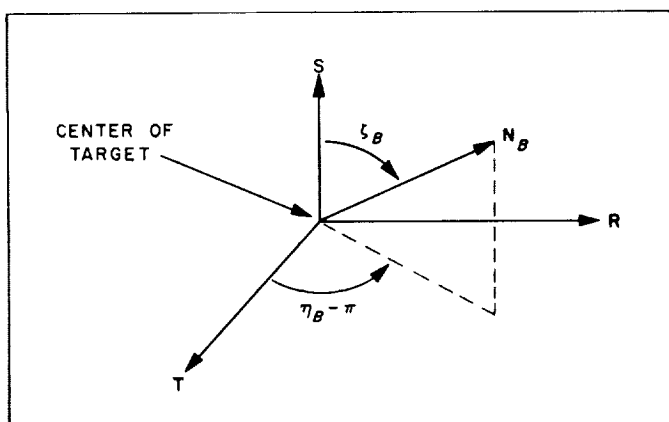


Fig. 10. Generalized geometry for aiming point angles

In this diagram, the reference coordinate system is the same target R, S, T system defined in Section IIC. A unit vector N_B (subscript B for body) is directed from the target center to another celestial body. The angular quantity ζ_B is the angle subtended at the target center between the incoming asymptote S and the target-celestial body line N_B . Thus

$$\cos \zeta_B = S \cdot N_B = \frac{V_{hp} \cdot N_B}{V_{hp}} \quad 0 \leq \zeta_B \leq \pi$$

since

$$S = \frac{V_{hp}}{V_{hp}}$$

The angle η_B is the supplement of the angle between the T direction and the projection of N_B on the $R-T$ plane, defined by

$$\sin \eta_B = \frac{-R \cdot N_B}{\sin \zeta_B} \quad 0 \leq \eta_B \leq 2\pi$$

$$\cos \eta_B = \frac{-T \cdot N_B}{\sin \zeta_B}$$

These quantities are computed for three celestial bodies: the Sun (ζ_s and η_s), the Earth (ζ_E and η_E), and the star Canopus (ζ_c and η_c). Thus,

ZAP, ζ_s (or ζ_p) the Sun-target-probe angle. Actually, this angle should be symbolized ZAS, but, for historical reasons, is not. This angle is useful in that it indicates the direction of the probe's approach to

the target. If $\zeta_s < \pi/2$, the probe approaches from the target planet's dark side. If $\zeta_s > \pi/2$, it approaches from the light side.

ETS, η_s

defined as above.

ZAE, ζ_E

the Earth-target-probe angle. This angle is useful in locating the Earth as the probe approaches the target.

ETE, η_E

defined as above.

ZAC, ζ_c

the Canopus-target-probe angle.

ETC, η_c

defined as above.

CLP, σ_p

the angle between the projection of the incoming asymptote S on the target planet's orbital plane and the target-Sun line at arrival time, defined by

$$\cos \sigma_p = -R_p^1 \cdot S_{pr} \quad -\pi \leq \sigma_p \leq \pi$$

$$\sin \sigma_p = -S_{pr} \cdot (W_2 \times R_p^1)$$

where S_{pr} is the projection of S on the target's orbital plane given by

$$S_{pr} = \frac{S - W_2(S \cdot W_2)}{|S - W_2(S \cdot W_2)|}$$

Recall that W_2 is the unit normal vector to the target's orbital plane. This angle is illustrated in Fig. 11.

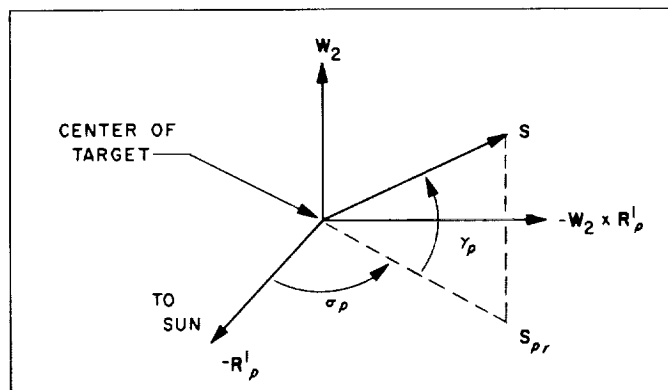


Fig. 11. Definition of σ_p and γ_p

B. Planetocentric Conic Group

The second group, PLANETOCENTRIC CONIC, gives the characteristics of primarily the launch-planet ascent trajectories, but also includes the hyperbolic-excess vector at the target. Injection conditions are given for three launch azimuths, assuming both short and long parking orbits. As explained in Ref. 6, there may be two launch times per day for each launch azimuth, resulting in a short and long parking orbit. The injection conditions for each set are given in geocentric space-fixed spherical coordinates and, by assuming a 100-nm parking orbit altitude and typical boost vehicle trajectory characteristics, the longitude of injection is calculated, along with the latitude and longitude of ignition of final burn out of the parking orbit.

A special case may arise when the declination of the outgoing asymptote of the escape hyperbola is greater than the launch site latitude (Cape Canaveral). In this case, owing to geometrical restrictions, it may not be possible to fire in a symmetrical band of azimuths about due east, as explained in Ref. 6. This band of restricted azimuths may eliminate part or all of the selected launch azimuths, 90, 100, and 110 deg. When this happens, only those trajectories with permissible azimuths are printed, in addition to the limiting azimuths, or the most northerly and southerly azimuths, that are possible.

The ascent trajectory profile is as shown in Fig. 12. Its characteristics are defined as follows:

- Φ_1 the arc subtended at Earth's center during ascent from launch into parking orbit.
- t_1 the time from launch to parking-orbit injection.
- Φ_2 the arc subtended at Earth's center during final burn out of the parking orbit, to injection.
- t_2 the time of final burn.
- $k_{\dot{\Phi}}$ the inverse parking orbital rate, equal to $1/\dot{\Phi}_c$.
- v_1 the true anomaly in the hyperbolic orbit at injection.
- R_p the perifocal distance of the escape hyperbola, taken equal to the Earth-centered radius of the parking orbit.

ϕ_L the longitude of the launch site.

θ_L the latitude of the launch site.

The values of these quantities for all trajectories contained herein are:

$$\Phi_1 = 17 \text{ deg}$$

$$t_1 = 500 \text{ sec}$$

$$\Phi_2 = 8 \text{ deg}$$

$$t_2 = 100 \text{ sec}$$

$$k_{\dot{\Phi}} = 14.689 \text{ sec/deg}$$

$$v_1 = 3.7 \text{ deg}$$

$$R_p = 6560 \text{ km}$$

$$\phi_L = 28.317 \text{ deg}$$

$$\theta_L = 279.457 \text{ deg}$$

An inherent assumption here is that these quantities are relatively invariant with injection energy. This is a reasonable assumption and will affect the injection coordinates only slightly.

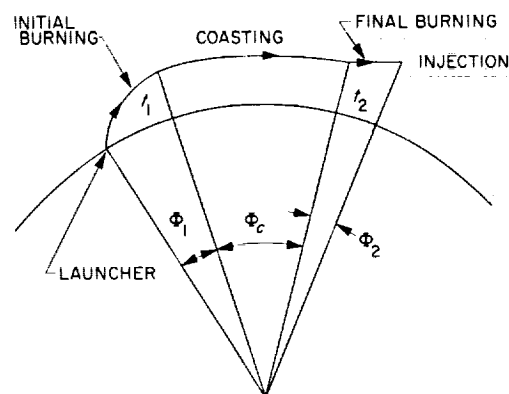


Fig. 12. Ascent trajectory profile

The print array for the PLANETOCENTRIC CONIC group is:

C3	VHL	DLA	RAL	RAD	VEL	PTH	VHP	DPA	RAP	ECC
LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG

The quantities are defined as follows (all angles are in deg; distances are in km; speeds are in km/sec, launch-injection (L-I) time and parking orbit coast time (PO CST TIM) are in sec; launch time and injection time are in hr, min, and sec, GMT):

Line 1

C3, C_3	the <i>vis viva</i> integral (Moulton), or twice the total energy per unit mass, expressed in km^2/sec^2 and defined by $C_3 = V_{hL}^2$.	L-I TIME, t_{LI}	the launch-to-injection time.
VHL, V_{hL}	the launch hyperbolic-excess speed.	INJ LAT, ϕ	the injection latitude (or declination Φ).
DLA, Φ_s	the declination of the outgoing asymptote of the escape hyperbola defined in Eq. (18).	INJ LONG, θ	the injection longitude, measured positive east of Greenwich, $0 \leq \theta \leq 2\pi$.
RAL, Θ_s	the right ascension of the outgoing asymptote of the escape hyperbola defined in Eq. (18).	INJ RT ASC, Θ	the injection right ascension.
RAD, $R = \mathbf{R} $	the launch-planet-centered injection radius.	INJ AZMTH, Σ	the injection azimuth, or angle between the projection of the velocity vector \mathbf{V} , on the local horizontal plane and the projection of true north on this plane, measured positive east of true north.
VEL, $V = \mathbf{V} $	the inertial injection speed.	INJ TIME, T_I	the injection time. The same comment applies to this quantity regarding launch date as applied to the launch time. However, both times must be consistent. For example, if launch time is on the previous day, injection time may fall on the launch date shown, or it may be on the following day.
PTH, Γ	the injection path angle defined by $\sin \Gamma = \frac{\mathbf{V} \cdot \mathbf{R}}{VR} \quad -\frac{\pi}{2} \leq \Gamma \leq \frac{\pi}{2}$	PO CST TIM, t_c	the coast time in the parking orbit, in sec.
VHP, V_{hp}	the hyperbolic-excess speed at the target.	INJ 2 LAT, ϕ_2	the latitude of the start of final burn out of the parking orbit.
DPA, Φ_{sp}	the declination of the incoming asymptote at the target. The reference coordinate system here is vernal equinox, Earth equatorial, mean of <i>launch</i> date	INJ 2 LONG, θ_2	the longitude of the start of final burn out of the parking orbit, $0 \leq \theta_2 \leq 2\pi$.
RAP, Θ_{sp}	the right ascension of the incoming asymptote at the target. Same reference coordinates as for Φ_{sp} .		
ECC, e	the eccentricity of the escape hyperbola.		

Line 2

LNCH AZMTH, Σ_L	the launch azimuth measured in a plane tangent to the surface of the launch planet at the launch site, positive east of true north.
LNCH TIME, T_L	the launch time. For the range of launch azimuths given herein, launch time may cross 0 hours,

or midnight. In this case, the launch date may be advanced to the following day for times after midnight, or it may be retarded to the previous day for times before midnight, whichever the reader wishes.

The quantities T_I , R , Φ , Θ , V , Γ , Σ form a consistent set of injection conditions; i.e., they are the time and the space-fixed spherical coordinates which can be used to initialize an integrating trajectory program.

C. Differential Corrections Group

The DIFFERENTIAL CORRECTIONS group is comprised of sixteen error coefficients relating variations in

injection energy C_3 , declination Φ_s , and right ascension Θ_s , of the outgoing asymptote of the escape hyperbola, the astronomical unit, and solar radiation pressure to variations in the miss components $\mathbf{B} \cdot \mathbf{T}$, $\mathbf{B} \cdot \mathbf{R}$, and the flight time. These coefficients are very useful in gaging the error sensitivity of an interplanetary trajectory. The printout array for this group is as follows:

DIFFERENTIAL CORRECTIONS

TDE	TRA	TC3	BAU
RDE	RRA	RC3	FAU
FDE	FRA	FC3	BSP
BDE	BRA	BC3	FSP

The symbols are defined as follows:

Line 1

TDE, $\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_s}$	the partial derivative of the \mathbf{T} component of the impact parameter \mathbf{B} , with respect to the declination of the launch escape asymptote Φ_s , in megakilometers/deg.
TRA, $\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_s}$	the partial derivative of the \mathbf{T} component of the impact parameter \mathbf{B} , with respect to the right ascension of the launch escape asymptote Θ_s , in megakilometers/deg.
TC3, $\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3}$	the partial derivative of the \mathbf{T} component of the impact parameter \mathbf{B} , with respect to the injection energy C_3 , in megakilometers/km ² /sec ² .
BAU, $\frac{\partial \mathbf{B}}{\partial au}$	the partial derivative of the magnitude of the impact parameter \mathbf{B} , with respect to the astronomical unit-to-kilometer conversion factor. This derivative is dimensionless and indicates the target miss caused by an uncertainty in the value of the astronomical unit.

Line 2

RDE, $\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_s}$	the partial derivative of the \mathbf{R} component of the impact parameter \mathbf{B} , with respect to the declination of the launch escape asymptote Φ_s , in megakilometers/deg.
RRA, $\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_s}$	the partial derivative of the \mathbf{R} component of the impact parameter \mathbf{B} , with respect to the right ascension of the launch

escape asymptote Θ_s , in megakilometers/deg.

RC3, $\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3}$ the partial derivative of the \mathbf{R} component of the impact parameter \mathbf{B} , with respect to the injection energy C_3 , in megakilometers/km²/sec².

FAU, $\frac{\partial T_F}{\partial au}$ the partial derivative of the flight time T_F , with respect to the astronomical unit-to-kilometer conversion factor. This derivative has dimensions of sec/km and indicates the error in flight time caused by an uncertainty in the value of the astronomical unit.

Line 3

FDE, $\frac{\partial T_F}{\partial \Phi_s}$	the partial derivative of flight time T_F , with respect to the declination of the launch escape asymptote Φ_s , in days/deg.
FRA, $\frac{\partial T_F}{\partial \Theta_s}$	the partial derivative of flight time T_F , with respect to the right ascension of the launch escape asymptote Θ_s , in days/deg.
FC3, $\frac{\partial T_F}{\partial C_3}$	the partial derivative of flight time T_F , with respect to the injection energy C_3 , in days/km ² /sec ² .
BSP, ΔB_{sp}	the target miss (in km) caused by solar radiation pressure acting on a 300-kg spacecraft having an effective perfectly reflecting area of 3.6 square meters.

Line 4

BDE, $\frac{\partial \mathbf{B}}{\partial \Phi_s}$	the partial derivative of the magnitude of the impact parameter \mathbf{B} , with respect to the declination of the launch escape asymptote Φ_s , in megakilometers/deg.
BRA, $\frac{\partial \mathbf{B}}{\partial \Theta_s}$	the partial derivative of the magnitude of the impact parameter \mathbf{B} , with respect to the right ascension of the launch escape asymptote Θ_s , in megakilometers/deg.
BC3, $\frac{\partial \mathbf{B}}{\partial C_3}$	the partial derivative of the magnitude of the impact parameter \mathbf{B} , with respect to the injection energy C_3 , in megakilometers/km ² /sec ² .
FSP, ΔT_{Fsp}	the flight time error (in sec) caused by solar radiation pressure acting on a 300-kg spacecraft having an effective perfectly reflecting area of 3.6 square meters.

D. Mid-Course Execution Accuracy Group

The MID-COURSE EXECUTION ACCURACY group gives the parameters of the "one-sigma" three-dimensional ellipsoid of target errors, resulting from a spherically distributed mid-course guidance execution error with σ_v equal to 0.1 m/sec (see Eq. 49). It is assumed here that a single mid-course guidance maneuver is applied during the time the spacecraft is essentially traveling radially outward from the launch planet. This time is approximately from several hours to several days after launch and is a practical period in which to perform a mid-course maneuver. These quantities are quoted in the useful **R**, **S**, **T** coordinate system discussed above.

The print array for this group is:

MID-COURSE EXECUTION ACCURACY

SGT	SGR	SG3
RRT	RRF	RTF
SGB	R23	R13
SG1	SG2	THA

The quantities are defined as follows:

Line 1

SGT, σ_T the standard deviation of position errors along the **T** axis, in km.

SGR, σ_R the standard deviation of position errors along the **R** axis, in km.

SG3, σ_3 the standard deviation of flight time errors, in sec.

Line 2

RRT, ρ_{RT} the linear correlation coefficient relating position errors in the **R** and **T** directions (dimensionless).

RRF, ρ_{RF} the linear correlation coefficient relating position errors in the **R** direction and flight-time errors (dimensionless).

RTF, ρ_{TF} the linear correlation coefficient relating position errors in the **T** direction and flight-time errors (dimensionless).

Line 3

SGB, σ_B the square root of the sum of the squares of σ_R and σ_T .

R23, ρ_{23} the linear correlation coefficient of σ_2 and σ_3 ($= \sigma_F$). The same remarks apply to this number as to ρ_{13} , except that the σ_2 direction replaces the σ_1 direction.

R13, ρ_{13} the linear correlation coefficient relating σ_1 and σ_3 ($= \sigma_F$). This number statistically relates position errors in the σ_1 direction to flight time errors. If $\rho_{13} = 1$, then a position error in the σ_1 direction will always be accompanied by a flight-time error which is linearly related to that position error; ρ_{13} is dimensionless.

Line 4

SG1, σ_1 the semimajor axis of the error ellipse formed by projecting the three-dimensional error ellipsoid onto the **T-R** plane (Fig. 8), in km.

SG2, σ_2 the semiminor axis of this error ellipse (Fig. 8), in km.

THA, θ the angle between the **T** axis and the direction of the σ_1 axis, measured in the **T-R** plane as shown in Fig. 8, in deg.

E. Orbit Determination Accuracy Group

The ORBIT DETERMINATION ACCURACY group is comprised of 12 numbers which describe the uncertainty in target coordinates due to tracking errors described in Section IIE. The printout array for this group is as follows:

ORBIT DETERMINATION ACCURACY

ST	SR	SS
CRT	CRS	CST
LSA	MSA	SSA
EL1	EL2	ALF

The first two lines describe the covariance of **M**, by the method described in Section IIE (Eq. 67):

Line 1

ST, σ_T the standard deviation of errors in the coordinate **B · T**, in km.

SR, σ_R the standard deviation of errors in the coordinate **B · R**, in km.

SS, σ_S the standard deviation of errors in **S**, in km.

Line 2

- CRT, ρ_{RT} the linear correlation coefficient relating errors in $\mathbf{B} \cdot \mathbf{R}$ to errors in $\mathbf{B} \cdot \mathbf{T}$, dimensionless.
- CRS, ρ_{RS} the linear correlation coefficient relating errors in $\mathbf{B} \cdot \mathbf{R}$ to errors in S , dimensionless.
- CST, ρ_{TS} the linear correlation coefficient relating errors in $\mathbf{B} \cdot \mathbf{T}$ to errors in S , dimensionless.

The third line contains the three semiaxes of the one-sigma position ellipsoid described by $\mathbf{M}_1 \mathbf{\Lambda}^{-1} \mathbf{M}^T = 1$.

Line 3

- LSA, $\sqrt{\epsilon_{max}}$ the largest semiaxis of the position ellipsoid, in km. (ϵ_{max} is the largest eigenvalue of $\mathbf{\Lambda}_{M_1}$, in km^2 .)
- MSA, $\sqrt{\epsilon_{mid}}$ the middle semiaxis of the position ellipsoid, in km. (ϵ_{mid} is the second-largest, or middle, eigenvalue of $\mathbf{\Lambda}_{M_1}$, in km^2 .)
- SSA, $\sqrt{\epsilon_{min}}$ the smallest semiaxis of the position ellipsoid, in km. (ϵ_{min} is the smallest eigenvalue of $\mathbf{\Lambda}_{M_1}$, in km^2 .)

The fourth line describes the projection of the above position ellipsoid on the \mathbf{T} - \mathbf{R} plane. This projection is an ellipse with major and minor semiaxes and orientation as described below:

Line 4

- EL1 the major semiaxis of the target error ellipsoid projected onto the \mathbf{T} - \mathbf{R} plane, in km.

EL2

the minor semiaxis of the target error ellipsoid projected onto the \mathbf{T} - \mathbf{R} plane, in km.

ALF, α

the angle measured counterclockwise from the \mathbf{T} -axis to the major semiaxis direction, in deg ($0 \leq \alpha \leq 180$ deg).

The $\mathbf{\Lambda}_{\dot{\mathbf{x}}}$ matrix used in generating the results for this report is

$$\mathbf{\Lambda}_{\dot{\mathbf{x}}} = \begin{pmatrix} 100 \times 10^{-10} & 0 & 0 \\ 0 & 9 \times 10^{-10} & 0 \\ 0 & 0 & .09 \times 10^{-10} \end{pmatrix} \left(\frac{\text{km}}{\text{sec}} \right)^2$$

In all cases $\text{LSA} \gg \text{SSA}$, so that the information contained in lines 3 and 4 of the printout is very useful in visualizing the error ellipsoid. The general shape of the ellipsoid is a thin elliptical "pancake." When $\text{MSA} \ll \text{LSA}$, the "pancake" degenerates to approach a pencil shape. By inspecting the "shadow" of the pancake or pencil shape on the \mathbf{T} - \mathbf{R} plane, its orientation may be visualized.

If it is desired to estimate the flight time T_F , this can easily be done by the relation

$$\sigma_F = \frac{1}{V_{hp}} \sigma_S$$

The correlation coefficients between T_F and $\mathbf{B} \cdot \mathbf{T}$ are those given by CST; those between T_F and $\mathbf{B} \cdot \mathbf{R}$ are given by CRS.

IV. CONSTANTS

Constants used in trajectory calculations at the Jet Propulsion Laboratory are given in Ref. 9. For purposes of ready reference those constants used in the calculations contained herein are given below.

Gravitational Constants

1. Sun

$$GM_s = 2.959122083 \times 10^{-4} \text{ au}^3/\text{day}^2$$

2. Earth

$$GM_E = 3.986032 \times 10^5 \text{ km}^3/\text{sec}^2$$

Astronomical Unit-to-Kilometer Conversion Factor

$$1 \text{ au} = 149.599 \times 10^6 \text{ km}$$

Earth's Rotation Rate

$$\omega_E = 4.1780742 \times 10^{-3} \text{ deg/sec}$$

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Earth-Venus Trajectories, 1968-69

Launch date interval: November 16 to December 25, 1968

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LAUNCH DATE NOV 16 1968

FLIGHT TIME 70.00

ARRIVAL DATE JAN 25 1969

HELIOCENTRIC CONIC

DISTANCE 121.438

RL 147.92 LAL -.00 LOL 53.70 VL 13.614 GAL 42.10 AZL 89.61 MCA 25.56 SMA .82.48 ECC .89222 INC .3929 VI 30.120
 RP 107.76 LAP .17 LOP 79.26 VP 29.227 GAP -61.68 AZP 89.65 TAL 173.39 TAP 198.94 RCA 8.89 APO 156.07 V2 35.168
 RC 105.315 GL .18 GP -1.26 ZAL 64.61 ZAP 39.87 ETS 175.99 ZAE 127.10 ETE 182.92 ZAC 36.81 ETC 151.42 CLP 39.85

PLANETOCENTRIC CONIC

C3 490.971 VML 22.158 DLA -4.15 RAL 349.91 RAD 6572.3 VEL 24.744 PTH 3.33 VHP 33.279 DPA -23.85 RAP 301.96 ECC 9.0801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 31 0 2709.33 -27.71 75.24 254.75 96.08 8 16 10 2109.3 -26.58 66.75
 90.00 18 27 17 5611.23 28.14 263.00 259.15 93.31 20 0 48 5011.2 28.30 254.34
 100.00 8 50 24 2453.21 -29.29 56.21 254.55 96.25 9 31 17 1853.2 -28.12 47.60
 100.00 19 50 34 5342.58 29.73 243.34 259.25 93.28 21 19 37 4742.6 29.87 234.34
 110.00 9 54 11 2253.53 -33.59 40.48 253.98 96.74 10 31 45 1653.5 -32.29 31.49
 110.00 21 3 17 5115.02 34.05 226.36 259.54 93.24 22 28 32 4515.0 34.12 217.11

DIFFERENTIAL CORRECTIONS

TDE-1.0366 TRA-2.4348 TC3 -.1023 BAU .6717
 RDE-1.5751 RRA .8373 RC3 -.0035 FAU .00988
 FDE .3825 FRA .7919 FC3 -.0174 BSP 1947
 BDE 1.8856 BRA 2.5747 BC3 .1023 FSP -42

MID-COURSE EXECUTION ACCURACY

SGT 822.0 SGR 461.8 SG3 20.8
 RRT -.0550 RRF .0493 RTF -.6123
 SGB 942.8 R23 -.0002 R13 .6125
 SG1 822.6 SG2 460.8 THA 177.42

ORBIT DETERMINATION ACCURACY

ST 328.5 SR 412.5 SS 335.1
 CRT .7148 CRS .7546 CST .9964
 LSA 582.6 MSA 225.2 SSA 14.2
 EL1 490.6 EL2 193.1 ALF 53.91

LAUNCH DATE NOV 16 1968

FLIGHT TIME 72.00

ARRIVAL DATE JAN 27 1969

HELIOCENTRIC CONIC

DISTANCE 126.535

RL 147.92 LAL -.00 LOL 53.70 VL 14.461 GAL 39.78 AZL 89.25 MCA 28.79 SMA 83.72 ECC .86992 INC .7487 VI 30.120
 RP 107.72 LAP .36 LOP 82.49 VP 29.644 GAP -59.02 AZP 89.34 TAL 172.43 TAP 201.22 RCA 10.89 APO 156.55 V2 35.179
 RC 103.094 GL .39 GP -1.29 ZAL 63.14 ZAP 38.32 ETS 175.94 ZAE 126.73 ETE 183.21 ZAC 38.34 ETC 152.44 CLP 38.31

PLANETOCENTRIC CONIC

C3 453.911 VML 21.305 DLA -3.38 RAL 351.18 RAD 6572.3 VEL 23.984 PTH 3.31 VHP 32.167 DPA -23.58 RAP 303.77 ECC 8.4702
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 30 18 2726.71 -27.83 76.48 255.90 95.46 8 15 45 2126.7 -26.78 67.98
 90.00 18 38 9 5580.41 28.24 260.75 259.50 92.18 20 11 9 4980.4 28.24 252.08
 100.00 8 50 4 2469.40 -29.41 57.40 255.73 95.63 9 31 14 1869.4 -28.32 48.76
 100.00 20 1 4 5312.95 29.82 241.15 259.57 92.13 21 29 37 4713.0 29.80 232.34
 110.00 9 54 41 2267.10 -33.69 41.53 255.21 96.13 10 32 29 1667.1 -32.48 32.50
 110.00 21 12 56 5088.02 34.13 224.25 259.75 92.00 22 37 44 4488.0 34.03 215.01

DIFFERENTIAL CORRECTIONS

TDE-1.0495 TRA-2.4663 TC3 -.1094 BAU .6644
 RDE-1.5321 RRA .8239 RC3 -.0042 FAU .00982
 FDE .4000 FRA .8213 FC3 -.0187 BSP 2082
 BDE 1.8571 BRA 2.6003 BC3 .1095 FSP -46

MID-COURSE EXECUTION ACCURACY

SGT 859.3 SGR 468.4 SG3 22.3
 RRT -.0560 RRF .0512 RTF -.6307
 SGB 978.7 R23 -.0003 R13 .6309
 SG1 859.9 SG2 467.3 THA 177.48

ORBIT DETERMINATION ACCURACY

ST 345.8 SR 417.4 SS 351.4
 CRT .7138 CRS .7562 CST .9963
 LSA 602.9 MSA 231.3 SSA 14.5
 EL1 503.5 EL2 200.8 ALF 52.42

LAUNCH DATE NOV 16 1968

FLIGHT TIME 74.00

ARRIVAL DATE JAN 29 1969

HELIOCENTRIC CONIC

DISTANCE 131.391

RL 147.92 LAL -.00 LOL 53.70 VL 15.266 GAL 37.71 AZL 88.96 MCA 32.02 SMA 85.00 ECC .84679 INC 1.0379 VI 30.120
 RP 107.69 LAP .58 LOP 85.72 VP 30.056 GAP -56.50 AZP 89.12 TAL 171.46 TAP 203.48 RCA 13.02 APO 156.98 V2 35.188
 RC 100.871 GL .61 GP -1.32 ZAL 61.71 ZAP 36.81 ETS 175.88 ZAE 126.40 ETE 183.51 ZAC 39.91 ETC 153.40 CLP 36.79

PLANETOCENTRIC CONIC

C3 419.887 VML 20.491 DLA -2.61 RAL 352.41 RAD 6572.2 VEL 23.263 PTH 3.28 VHP 31.092 DPA -23.29 RAP 305.61 ECC 7.9103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 29 29 2743.44 -27.93 77.71 256.98 94.86 8 15 13 2143.4 -26.96 69.17
 90.00 18 48 45 5549.51 28.30 258.49 259.77 91.05 20 21 15 4949.5 28.15 249.83
 100.00 8 49 37 2484.97 -29.50 58.55 256.82 95.03 9 31 2 1885.0 -28.49 49.89
 100.00 20 11 19 5283.21 29.88 238.94 259.80 90.97 21 39 22 4683.2 29.69 230.14
 110.00 9 55 4 2280.09 -33.78 42.53 256.36 95.54 10 33 4 1680.1 -32.65 33.48
 110.00 21 22 21 5060.86 34.18 222.13 259.87 90.74 22 46 42 4460.9 33.90 212.90

DIFFERENTIAL CORRECTIONS

TDE-1.0636 TRA-2.5000 TC3 -.1169 BAU .6570
 RDE-1.4889 RRA .8093 RC3 -.0049 FAU .00975
 FDE .4178 FRA .8512 FC3 -.0201 BSP 2192
 BDE 1.8298 BRA 2.6278 BC3 .1170 FSP -50

MID-COURSE EXECUTION ACCURACY

SGT 898.7 SGR 474.4 SG3 24.0
 RRT -.0586 RRF .0531 RTF -.6486
 SGB 1016.3 R23 -.0005 R13 .6487
 SG1 899.3 SG2 473.3 THA 177.55

ORBIT DETERMINATION ACCURACY

ST 364.3 SR 421.8 SS 368.0
 CRT .7129 CRS .7576 CST .9962
 LSA 624.2 MSA 237.2 SSA 14.7
 EL1 516.9 EL2 208.5 ALF 50.83

LAUNCH DATE NOV 16 1968

FLIGHT TIME 76.00

ARRIVAL DATE JAN 31 1969

HELIOCENTRIC CONIC

DISTANCE 136.596

RL 147.92 LAL -.00 LOL 53.70 VL 16.030 GAL 35.83 AZL 88.72 MCA 35.25 SMA 86.32 ECC .82306 INC 1.2792 VI 30.120
 RP 107.67 LAP .74 LOP 88.95 VP 30.462 GAP -54.12 AZP 88.96 TAL 170.49 TAP 205.74 RCA 15.27 APO 157.37 V2 35.198
 RC 98.647 GL .84 GP -1.35 ZAL 60.33 ZAP 35.31 ETS 175.81 ZAE 126.13 ETE 183.83 ZAC 41.51 ETC 154.30 CLP 35.29

PLANETOCENTRIC CONIC

C3 388.600 VML 19.713 DLA -1.85 RAL 343.59 RAD 6572.1 VEL 22.581 PTH 3.26 VHP 30.050 DPA -22.97 RAP 307.48 ECC 7.3954
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 28 33 2759.54 -28.02 78.88 257.98 94.28 8 14 33 2159.5 -27.13 70.32
 90.00 18 59 7 5518.46 28.32 256.22 259.96 89.91 20 31 5 4918.5 28.00 247.57
 100.00 8 49 2 2499.93 -29.59 59.65 257.85 94.46 9 30 42 1899.9 -28.66 50.97
 100.00 20 21 19 5253.31 29.89 236.71 259.96 89.80 21 48 52 4653.3 29.54 227.93
 110.00 9 55 18 2292.50 -33.86 43.49 257.43 94.98 10 33 30 1692.5 -32.80 34.41
 110.00 21 31 32 5033.50 34.18 220.00 259.93 89.48 22 55 26 4433.5 33.73 210.78

DIFFERENTIAL CORRECTIONS

TDE-1.0771 TRA-2.5339 TC3 -.1247 BAU .6484
 RDE-1.4454 RRA .7934 RC3 -.0050 FAU .00971
 FDE .4359 FRA .8815 FC3 -.0216 BSP 2326
 BDE 1.8026 BRA 2.6552 BC3 .1248 FSP -55

MID-COURSE EXECUTION ACCURACY

SGT 939.4 SGR 479.8 SG3 25.8
 RRT -.0604 RRF .0551 RTF -.6658
 SGB 1054.9 R23 -.0007 R13 .6660
 SG1 940.0 SG2 478.7 THA 177.61

ORBIT DETERMINATION ACCURACY

ST 383.5 SR 425.8 SS 384.8
 CRT .7118 CRS .7589 CST .9961
 LSA 646.0 MSA 242.8 SSA 14.9
 EL1 530.7 EL2 216.1 ALF 49.18

LAUNCH DATE NOV 16 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 2 1969

HELIOCENTRIC CONIC

DISTANCE 141.942

RL 147.92 LAL -.00 LOL 53.70 VL 16.754 GAL 34.12 AZL 88.51 MCA 38.49 SMA 87.68 ECC .79891 INC 1.4851 V1 30.120
 RP 107.64 LAP .92 LOP 92.18 VP 30.859 GAP -51.85 AZP 88.84 TAL 169.52 TAP 208.01 RCA 17.63 APO 157.72 V2 35.206
 RC 96.423 GL 1.09 GP -1.38 ZAL 58.99 ZAP 33.84 ETS 175.74 ZAE 125.92 ETE 184.16 ZAC 43.15 ETC 155.15 CLP 33.82

PLANETOCENTRIC CONIC

C3 359.787 VML 18.968 DLA -1.10 RAL 354.72 RAD 6572.0 VEL 21.934 PTH 3.23 VMP 29.040 DPA -22.63 RAP 309.36 ECC 6.9212
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 27 30 2775.01 -28.09 80.00 258.91 93.72 8 13 45 2175.0 -27.28 71.43
 90.00 19 9 13 5487.24 28.29 253.94 260.08 88.77 20 40 40 4887.2 27.82 245.30
 100.00 8 48 20 2514.27 -29.66 60.71 258.79 93.90 9 30 14 1914.3 -28.80 52.01
 100.00 20 31 4 5223.21 29.86 234.48 260.04 88.62 21 38 8 4623.2 29.35 225.71
 110.00 9 55 24 2304.32 -33.93 44.41 258.42 94.44 10 33 48 1704.3 -32.94 35.31
 110.00 21 40 30 5005.93 34.14 217.84 259.90 88.20 23 3 56 4405.9 33.52 208.66

DIFFERENTIAL CORRECTIONS

TDE-1.0878 TRA-2.5655 TC3 -.1324 BAU .6377
 RDE-1.4017 RRA .7763 RC3 -.0068 FAU .00969
 FDE .4539 FRA .9119 FC3 -.0233 BSP 2527
 BDE 1.7743 BRA 2.6804 BC3 .1326 FSP -61

MID-COURSE EXECUTION ACCURACY

SGT 980.3 SGR 484.7 SG3 27.7
 RRT -.0625 RRF .0571 RTF -.6823
 SGB 1093.6 R23 -.0007 R13 .6825
 SGI 980.9 SG2 483.5 THA 177.66

ORBIT DETERMINATION ACCURACY

ST 402.8 SR 429.2 SS 401.7
 CRT .7101 CRS .7600 CST .9959
 LSA 667.9 MSA 248.2 SSA 15.1
 EL1 544.5 EL2 223.6 ALF 47.56

LAUNCH DATE NOV 16 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 4 1969

HELIOCENTRIC CONIC

DISTANCE 147.420

RL 147.92 LAL -.00 LOL 53.70 VL 17.439 GAL 32.54 AZL 88.34 MCA 41.72 SMA 89.06 ECC .77453 INC 1.6636 V1 30.120
 RP 107.61 LAP 1.11 LOP 95.41 VP 31.245 GAP -49.70 AZP 88.76 TAL 168.55 TAP 210.28 RCA 20.08 APO 158.03 V2 35.214
 RC 94.200 GL 1.34 GP -1.42 ZAL 57.70 ZAP 32.40 ETS 175.64 ZAE 125.76 ETE 184.50 ZAC 44.82 ETC 155.94 CLP 32.37

PLANETOCENTRIC CONIC

C3 333.224 VML 18.254 DLA -.35 RAL 355.81 RAD 6571.9 VEL 21.320 PTH 3.21 VMP 28.060 DPA -22.27 RAP 311.25 ECC 6.4840
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 26 18 2789.87 -28.15 81.09 259.75 93.18 8 12 48 2189.9 -27.41 72.50
 90.00 19 19 6 5455.80 28.22 251.64 260.13 87.62 20 50 2 4855.8 27.60 243.03
 100.00 8 47 29 2528.01 -29.72 61.73 259.65 93.37 9 29 37 1928.0 -28.93 53.01
 100.00 20 40 37 5192.89 29.79 232.23 260.05 87.44 22 7 9 4592.9 29.12 223.49
 110.00 9 55 21 2315.57 -33.98 45.28 259.33 93.93 10 33 57 1715.6 -33.07 36.16
 110.00 21 49 14 4978.10 34.06 215.67 259.81 86.92 23 12 12 4378.1 33.26 206.52

DIFFERENTIAL CORRECTIONS

TDE-1.1010 TRA-2.5999 TC3 -.1407 BAU .6276
 RDE-1.3578 RRA .7583 RC3 -.0079 FAU .00966
 FDE .4726 FRA .9433 FC3 -.0251 BSP 2678
 BDE 1.7481 BRA 2.7082 BC3 .1409 FSP -66

MID-COURSE EXECUTION ACCURACY

SGT 1024.2 SGR 489.0 SG3 29.7
 RRT -.0642 RRF .0589 RTF -.6984
 SGB 1135.0 R23 -.0010 R13 .6986
 SGI 1024.8 SG2 487.7 THA 177.73

ORBIT DETERMINATION ACCURACY

ST 423.8 SR 432.1 SS 419.2
 CRT .7088 CRS .7611 CST .9957
 LSA 691.1 MSA 253.2 SSA 15.3
 EL1 559.5 EL2 230.9 ALF 45.79

LAUNCH DATE NOV 16 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 6 1969

HELIOCENTRIC CONIC

DISTANCE 153.023

RL 147.92 LAL -.00 LOL 53.70 VL 18.088 GAL 31.08 AZL 88.18 MCA 44.96 SMA 90.45 ECC .75004 INC 1.8209 V1 30.120
 RP 107.59 LAP 1.29 LOP 98.63 VP 31.620 GAP -47.66 AZP 88.71 TAL 167.59 TAP 212.55 RCA 22.61 APO 158.30 V2 35.222
 RC 91.981 GL 1.61 GP -1.46 ZAL 56.45 ZAP 30.97 ETS 175.54 ZAE 125.66 ETE 184.86 ZAC 46.52 ETC 156.69 CLP 30.94

PLANETOCENTRIC CONIC

C3 308.710 VML 17.570 DLA .39 RAL 356.86 RAD 6571.8 VEL 20.737 PTH 3.18 VMP 27.109 DPA -21.89 RAP 313.16 ECC 6.0806
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 24 59 2804.12 -28.20 82.12 260.52 92.66 8 11 43 2204.1 -27.53 73.52
 90.00 19 28 46 5424.11 28.11 249.33 260.11 86.46 20 59 10 4824.1 27.33 240.75
 100.00 8 46 30 2541.15 -29.77 62.70 260.44 92.86 9 28 52 1941.2 -29.05 53.97
 100.00 20 49 56 5162.30 29.68 229.96 260.00 86.25 22 15 58 4562.3 28.84 221.25
 110.00 9 55 10 2326.24 -34.03 46.11 260.16 93.44 10 33 56 1726.2 -33.18 36.97
 110.00 21 57 45 4949.98 33.94 213.49 259.64 85.63 23 20 15 4350.0 32.96 204.38

DIFFERENTIAL CORRECTIONS

TDE-1.1140 TRA-2.6342 TC3 -.1492 BAU .6168
 RDE-1.3137 RRA .7392 RC3 -.0091 FAU .00965
 FDE .4917 FRA .9752 FC3 -.0271 BSP 2834
 BDE 1.7224 BRA 2.7360 BC3 .1494 FSP -72

MID-COURSE EXECUTION ACCURACY

SGT 1069.9 SGR 492.6 SG3 31.9
 RRT -.0657 RRF .0607 RTF -.7139
 SGB 1177.8 R23 -.0012 R13 .7140
 SGI 1070.5 SG2 491.3 THA 177.80

ORBIT DETERMINATION ACCURACY

ST 445.7 SR 434.5 SS 437.1
 CRT .7076 CRS .7621 CST .9955
 LSA 715.3 MSA 257.9 SSA 15.5
 EL1 575.1 EL2 237.9 ALF 43.97

LAUNCH DATE NOV 16 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 8 1969

HELIOCENTRIC CONIC

DISTANCE 158.743

RL 147.92 LAL -.00 LOL 53.70 VL 18.701 GAL 29.71 AZL 88.04 MCA 48.20 SMA 91.87 ECC .72560 INC 1.9614 V1 30.120
 RP 107.57 LAP 1.46 LOP 101.89 VP 31.983 GAP -45.70 AZP 88.69 TAL 166.63 TAP 214.83 RCA 25.21 APO 158.53 V2 35.229
 RC 89.765 GL 1.88 GP -1.50 ZAL 55.24 ZAP 29.57 ETS 175.41 ZAE 125.62 ETE 185.24 ZAC 48.25 ETC 157.39 CLP 29.53

PLANETOCENTRIC CONIC

C3 286.067 VML 16.914 DLA 1.13 RAL 357.86 RAD 6571.7 VEL 20.184 PTH 3.15 VMP 26.184 DPA -21.48 RAP 315.09 ECC 5.7079
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 23 31 2817.78 -28.24 83.12 261.21 92.16 8 10 29 2217.8 -27.64 74.51
 90.00 19 38 13 5392.10 27.96 247.00 260.02 85.31 21 8 5 4792.1 27.01 238.46
 100.00 8 45 23 2553.72 -29.81 63.63 261.14 92.37 9 27 57 1953.7 -29.16 54.89
 100.00 20 59 2 5131.40 29.52 227.68 259.87 85.06 22 24 34 4531.4 28.52 219.01
 110.00 9 54 50 2336.35 -34.07 46.90 260.90 92.97 10 33 46 1736.4 -33.28 37.75
 110.00 22 6 5 4921.53 33.77 211.28 259.40 84.34 23 28 7 4321.5 32.62 202.24

DIFFERENTIAL CORRECTIONS

TDE-1.1271 TRA-2.6685 TC3 -.1580 BAU .6054
 RDE-1.2695 RRA .7193 RC3 -.0105 FAU .00966
 FDE .5113 FRA 1.0078 FC3 -.0292 BSP 2992
 BDE 1.6976 BRA 2.7637 BC3 .1583 FSP -78

MID-COURSE EXECUTION ACCURACY

SGT 1117.5 SGR 495.6 SG3 34.2
 RRT -.0672 RRF .0625 RTF -.7288
 SGB 1222.4 R23 -.0016 R13 .7289
 SGI 1118.1 SG2 494.2 THA 177.88

ORBIT DETERMINATION ACCURACY

ST 468.6 SR 436.2 SS 455.3
 CRT .7063 CRS .7631 CST .9953
 LSA 740.4 MSA 262.2 SSA 15.7
 EL1 591.7 EL2 244.6 ALF 42.10

LAUNCH DATE NOV 16 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 10 1969

HELIOCENTRIC CONIC

DISTANCE 164.573

RL 147.92 LAL -.00 LOL 53.70 VL 19.282 GAL 28.43 AZL 87.91 MCA 51.44 SMA 93.29 ECC .70130 INC 2.0883 V1 30.120
 RP 107.55 LAP 1.63 LOP 105.13 VP 32.332 GAP -43.83 AZP 88.70 TAL 165.68 TAP 217.12 RCA 27.87 APO 158.72 V2 35.235
 RC 87.555 GL 2.17 GP -1.54 ZAL 54.08 ZAP 28.18 ETS 175.26 ZAE 125.64 ETE 185.63 ZAC 50.00 ETC 158.05 CLP 28.14

PLANETOCENTRIC CONIC

C3 265.139 VHL 16.283 DLA 1.86 RAL 358.82 RAD 6571.5 VEL 19.658 PTH 3.12 VHP 25.286 DPA -21.06 RAP 317.02 ECC 5.3635
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 21 54 2830.87 -28.27 84.08 261.82 91.68 8 9 5 2230.9 -27.74 75.45
 90.00 19 47 29 5359.76 27.75 244.65 259.86 84.15 21 16 48 4759.8 26.65 236.16
 100.00 8 44 7 2565.71 -29.84 64.52 261.76 91.80 9 26 52 1965.7 -29.25 55.77
 100.00 21 7 57 5100.15 29.31 225.38 259.67 83.87 22 32 57 4500.2 28.15 216.76
 110.00 9 54 20 2345.90 -34.10 47.64 261.57 92.53 10 33 26 1745.9 -33.37 38.48
 110.00 22 14 13 4892.73 33.55 209.06 259.10 83.04 23 35 46 4292.7 32.23 200.08

DIFFERENTIAL CORRECTIONS

TDE-1.1398 TRA-2.7021 TC3 -.1670 BAU .5934
 RDE-1.2252 RRA .6986 RC3 -.0120 FAU .00967
 FDE .5315 FRA 1.0411 FC3 -.0316 BSP 3163
 BDE 1.6734 BRA 2.7909 BC3 .1674 FSP -85

MID-COURSE EXECUTION ACCURACY

SGT 1166.8 SGR 497.9 SG3 36.6
 RRT -.0686 RRF .0642 RTF -.7430
 SGB 1268.6 R23 -.0019 R13 .7431
 SGI 1167.4 SGI 496.4 TMA 177.95

ORBIT DETERMINATION ACCURACY

ST 492.5 SR 437.4 SS 474.0
 CRT .7050 CRS .7640 CST .9951
 LSA 766.5 MSA 266.1 SSA 15.9
 EL1 609.0 EL2 250.8 ALF 40.21

LAUNCH DATE NOV 16 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 170.506

RL 147.92 LAL -.00 LOL 53.70 VL 19.831 GAL 27.22 AZL 87.80 MCA 54.69 SMA 94.72 ECC .67724 INC 2.2045 V1 30.120
 RP 107.55 LAP 1.80 LOP 108.37 VP 32.669 GAP -42.05 AZP 88.73 TAL 164.74 TAP 219.42 RCA 30.57 APO 158.87 V2 35.240
 RC 85.353 GL 2.48 GP -1.59 ZAL 52.96 ZAP 26.81 ETS 175.08 ZAE 125.71 ETE 186.05 ZAC 51.77 ETC 158.67 CLP 26.77

PLANETOCENTRIC CONIC

C3 245.785 VHL 15.878 DLA 2.59 RAL 359.73 RAD 6571.4 VEL 19.160 PTH 3.09 VHP 24.413 DPA -20.61 RAP 318.96 ECC 5.0450
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 20 8 2843.42 -28.29 85.00 262.34 91.22 8 7 31 2243.4 -27.82 76.36
 90.00 19 56 33 5327.02 27.51 242.29 259.63 82.99 21 25 20 4727.0 26.25 233.85
 100.00 8 42 41 2577.16 -29.86 65.37 262.30 91.46 9 25 38 1977.2 -29.34 56.61
 100.00 21 16 41 5068.51 29.06 225.06 259.41 82.67 22 41 10 4468.5 27.74 214.50
 110.00 9 53 42 2354.90 -34.13 48.34 262.14 92.12 10 32 56 1754.9 -33.46 39.17
 110.00 22 22 10 4843.54 33.29 206.82 258.73 81.74 23 43 13 4263.5 31.79 197.92

DIFFERENTIAL CORRECTIONS

TDE-1.1522 TRA-2.7350 TC3 -.1762 BAU .5807
 RDE-1.1809 RRA .6773 RC3 -.0136 FAU .00971
 FDE .5522 FRA 1.0752 FC3 -.0342 BSP 3338
 BDE 1.6499 BRA 2.8178 BC3 .1767 FSP -92

MID-COURSE EXECUTION ACCURACY

SGT 1218.1 SGR 499.5 SG3 39.3
 RRT -.0699 RRF .0658 RTF -.7567
 SGB 1316.5 R23 -.0023 R13 .7568
 SGI 1218.7 SGI 498.0 TMA 178.03

ORBIT DETERMINATION ACCURACY

ST 517.4 SR 437.9 SS 493.1
 CRT .7037 CRS .7649 CST .9949
 LSA 793.6 MSA 269.5 SSA 16.0
 EL1 627.4 EL2 256.6 ALF 38.30

LAUNCH DATE NOV 16 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 176.536

RL 147.92 LAL -.00 LOL 53.70 VL 20.350 GAL 26.07 AZL 87.69 MCA 57.93 SMA 96.15 ECC .65551 INC 2.3116 V1 30.120
 RP 107.52 LAP 1.95 LOP 111.61 VP 32.991 GAP -40.34 AZP 88.77 TAL 163.81 TAP 221.74 RCA 33.32 APO 158.99 V2 35.245
 RC 83.158 GL 2.80 GP -1.65 ZAL 51.88 ZAP 25.46 ETS 174.86 ZAE 125.85 ETE 186.48 ZAC 53.57 ETC 159.26 CLP 25.41

PLANETOCENTRIC CONIC

C3 227.881 VHL 15.096 DLA 3.31 RAL .60 RAD 6571.3 VEL 18.687 PTH 3.06 VHP 23.563 DPA -20.14 RAP 320.91 ECC 4.7503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 18 12 2855.45 -28.31 85.88 262.79 90.78 8 5 47 2255.4 -27.90 77.23
 90.00 20 5 26 5293.85 27.21 239.91 259.34 81.83 21 33 40 4693.9 25.80 231.52
 100.00 8 41 5 2588.09 -29.88 66.19 262.76 91.03 9 24 13 1988.1 -29.41 57.41
 100.00 21 25 14 5036.45 28.76 220.72 259.08 81.48 22 49 11 4436.4 27.28 212.23
 110.00 9 52 53 2363.37 -34.14 49.00 262.64 91.73 10 32 16 1763.4 -33.53 39.82
 110.00 22 29 56 4833.92 32.98 204.57 258.30 80.44 23 50 30 4233.9 31.31 195.74

DIFFERENTIAL CORRECTIONS

TDE-1.1644 TRA-2.7669 TC3 -.1856 BAU .5675
 RDE-1.1366 RRA .6553 RC3 -.0155 FAU .00976
 FDE .5736 FRA 1.1102 FC3 -.0371 BSP 3522
 BDE 1.6272 BRA 2.8435 BC3 .1863 FSP -100

MID-COURSE EXECUTION ACCURACY

SGT 1271.2 SGR 500.4 SG3 42.2
 RRT -.0711 RRF .0675 RTF -.7698
 SGB 1366.2 R23 -.0028 R13 .7699
 SGI 1271.8 SGI 498.9 TMA 178.10

ORBIT DETERMINATION ACCURACY

ST 543.3 SR 437.8 SS 512.8
 CRT .7024 CRS .7658 CST .9947
 LSA 821.8 MSA 272.5 SSA 16.2
 EL1 646.8 EL2 261.8 ALF 36.40

LAUNCH DATE NOV 16 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 182.655

RL 147.92 LAL -.00 LOL 53.70 VL 20.840 GAL 24.99 AZL 87.59 MCA 61.17 SMA 97.58 ECC .63017 INC 2.4114 V1 30.120
 RP 107.51 LAP 2.11 LOP 114.86 VP 33.301 GAP -38.69 AZP 88.84 TAL 162.90 TAP 224.07 RCA 36.09 APO 159.07 V2 35.249
 RC 80.975 GL 3.13 GP -1.71 ZAL 50.85 ZAP 24.12 ETS 174.61 ZAE 126.05 ETE 186.94 ZAC 55.39 ETC 159.81 CLP 24.06

PLANETOCENTRIC CONIC

C3 211.312 VHL 14.537 DLA 4.04 RAL 1.43 RAD 6571.2 VEL 18.238 PTH 3.02 VHP 22.737 DPA -19.65 RAP 322.86 ECC 4.4777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 16 5 2866.99 -28.31 86.72 263.15 90.36 8 3 52 2267.0 -27.96 78.07
 90.00 20 14 10 5260.21 26.86 237.51 258.99 80.68 21 41 51 4660.2 25.29 229.19
 100.00 8 39 19 2598.52 -29.89 66.96 263.13 90.62 9 22 37 1998.5 -29.48 58.18
 100.00 21 33 37 5003.91 28.41 218.37 258.70 80.28 22 57 1 4403.9 26.77 209.95
 110.00 9 51 54 2371.34 -34.16 49.63 263.04 91.36 10 31 25 1771.3 -33.59 40.43
 110.00 22 37 32 4803.85 32.61 202.30 257.81 79.14 23 57 36 4203.8 30.77 193.56

DIFFERENTIAL CORRECTIONS

TDE-1.1760 TRA-2.7973 TC3 -.1952 BAU .5535
 RDE-1.0925 RRA .6329 RC3 -.0175 FAU .00983
 FDE .5957 FRA 1.1461 FC3 -.0403 BSP 3721
 BDE 1.6051 BRA 2.8680 BC3 .1959 FSP -108

MID-COURSE EXECUTION ACCURACY

SGT 1326.0 SGR 500.5 SG3 45.2
 RRT -.0723 RRF .0691 RTF -.7823
 SGB 1417.4 R23 -.0032 R13 .7824
 SGI 1326.6 SGI 499.0 TMA 178.18

ORBIT DETERMINATION ACCURACY

ST 570.1 SR 437.1 SS 533.0
 CRT .7012 CRS .7666 CST .9944
 LSA 851.1 MSA 275.0 SSA 16.3
 EL1 667.2 EL2 266.3 ALF 34.51

LAUNCH DATE NOV 16 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 188.859

RL 147.92 LAL -.00 LOL 53.70 VL 21.303 GAL 23.96 AZL 87.49 HCA 64.42 SMA 99.00 ECC .60729 INC 2.5052 VI 30.120
 RP 107.50 LAP 2.26 LOP 118.10 VP 33.596 GAP -37.12 AZP 88.92 TAL 162.00 TAP 226.42 RCA 38.88 APO 159.13 V2 35.253
 RC 78.802 GL 3.48 GP -1.77 ZAL 49.86 ZAP 22.80 ETS 174.31 ZAE 126.32 ETE 187.42 ZAC 57.22 ETC 160.33 CLP 22.73

PLANETOCENTRIC CONIC

C3 195.979 VHL 13.999 DLA 4.76 RAL 2.22 RAD 6571.1 VEL 17.813 PTH 2.99 VHP 21.933 DPA -19.14 RAP 324.82 ECC 4.2253
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 13 47 2878.07 -28.32 87.53 263.43 89.95 8 1 45 2278.1 -28.02 78.88
 90.00 20 22 45 5226.05 26.46 235.09 258.58 79.53 21 49 51 4626.1 24.74 226.84
 100.00 8 37 22 2608.48 -29.89 67.70 263.42 90.23 9 20 50 2008.5 -29.54 58.91
 100.00 21 41 51 4970.87 28.01 215.99 258.25 79.10 23 4 42 4370.9 26.22 207.65
 110.00 9 50 44 2378.83 -34.17 50.21 263.37 91.02 10 30 23 1778.8 -33.65 41.01
 110.00 22 44 58 4773.29 32.20 200.01 257.26 77.85 24 4 31 4173.3 30.19 191.37

DIFFERENTIAL CORRECTIONS

TDE-1.1871 TRA-2.8261 TC3 -.2048 BAU .5390
 RDE-1.0485 RRA .6101 RC3 -.0197 FAU .00992
 FDE .6187 FRA 1.1830 FC3 -.0438 BSP 3934
 BDE 1.5838 BRA 2.8912 BC3 .2057 FSP -117

MID-COURSE EXECUTION ACCURACY

SGT 1382.7 SGR 500.0 SC3 48.5
 RRT -.0734 RRF .0707 RTF -.7942
 SGB 1470.3 R23 -.0037 R13 .7943
 SG1 1383.3 SG2 498.4 THA 178.25

ORBIT DETERMINATION ACCURACY

ST 598.0 SR 435.7 SS 553.7
 CRT .6999 CRS .7675 CST .9942
 LSA 881.5 MSA 276.9 SSA 16.4
 EL1 688.8 EL2 270.1 ALF 32.65

LAUNCH DATE NOV 16 1968

FLIGHT TIME 96.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 195.140

RL 147.92 LAL -.00 LOL 53.70 VL 21.741 GAL 22.98 AZL 87.41 HCA 67.67 SMA 100.41 ECC .58493 INC 2.5941 VI 30.120
 RP 107.49 LAP 2.40 LOP 121.35 VP 33.878 GAP -35.60 AZP 89.01 TAL 161.11 TAP 228.78 RCA 41.68 APO 159.15 V2 35.255
 RC 76.644 GL 3.85 GP -1.84 ZAL 48.92 ZAP 21.49 ETS 173.95 ZAE 126.66 ETE 187.93 ZAC 59.08 ETC 160.83 CLP 21.41

PLANETOCENTRIC CONIC

C3 181.789 VHL 13.483 DLA 5.48 RAL 2.96 RAD 6571.0 VEL 17.410 PTH 2.96 VHP 21.151 DPA -18.62 RAP 326.78 ECC 3.9918
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 11 17 2888.75 -28.31 88.31 263.63 89.56 7 59 25 2288.8 -28.07 79.66
 90.00 20 31 11 5191.34 26.01 232.65 258.11 78.38 21 57 43 4591.3 24.14 224.47
 100.00 8 35 13 2618.03 -29.89 68.41 263.64 89.86 9 18 51 2018.0 -29.59 59.62
 100.00 21 49 56 4937.29 27.55 213.60 257.74 77.92 23 12 14 4337.3 25.61 205.34
 110.00 9 49 23 2385.88 -34.18 50.76 263.61 90.69 10 29 9 1785.9 -33.70 41.55
 110.00 22 52 15 4742.21 31.73 197.71 256.65 76.56 24 11 17 4142.2 29.56 189.17

DIFFERENTIAL CORRECTIONS

TDE-1.2022 TRA-2.8575 TC3 -.2154 BAU .5263
 RDE-1.0047 RRA .5871 RC3 -.0221 FAU .01000
 FDE .6432 FRA 1.2217 FC3 -.0476 BSP 4049
 BDE 1.5667 BRA 2.9172 BC3 .2165 FSP -126

MID-COURSE EXECUTION ACCURACY

SGT 1444.5 SGR 498.6 SC3 52.1
 RRT -.0736 RRF .0721 RTF -.8055
 SGB 1528.1 R23 -.0048 R13 .8056
 SG1 1445.0 SG2 497.1 THA 178.35

ORBIT DETERMINATION ACCURACY

ST 628.7 SR 433.5 SS 575.6
 CRT .6995 CRS .7685 CST .9940
 LSA 914.8 MSA 278.1 SSA 16.6
 EL1 713.1 EL2 273.1 ALF 30.73

LAUNCH DATE NOV 16 1968

FLIGHT TIME 98.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 201.493

RL 147.92 LAL -.00 LOL 53.70 VL 22.154 GAL 22.04 AZL 87.32 HCA 70.91 SMA 101.81 ECC .56311 INC 2.6789 VI 30.120
 RP 107.48 LAP 2.53 LOP 124.60 VP 34.146 GAP -34.14 AZP 89.12 TAL 160.25 TAP 231.16 RCA 44.48 APO 159.14 V2 35.257
 RC 74.503 GL 4.24 GP -1.92 ZAL 48.01 ZAP 20.19 ETS 173.51 ZAE 127.07 ETE 188.47 ZAC 60.95 ETC 161.29 CLP 20.10

PLANETOCENTRIC CONIC

C3 168.654 VHL 12.987 DLA 6.21 RAL 3.67 RAD 6570.8 VEL 17.029 PTH 2.93 VHP 20.389 DPA -18.08 RAP 328.74 ECC 3.7756
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 34 2899.07 -28.31 89.07 263.74 89.18 7 56 53 2299.1 -28.12 80.41
 90.00 20 39 30 5156.03 25.50 230.18 257.58 77.25 22 5 26 4556.0 23.49 222.09
 100.00 8 32 51 2627.20 -29.89 69.09 263.76 89.50 9 16 38 2027.2 -29.64 60.30
 100.00 21 57 54 4903.14 27.04 211.19 257.18 76.75 23 19 37 4303.1 24.95 203.02
 110.00 9 47 51 2392.51 -34.18 51.28 263.77 90.38 10 27 43 1792.5 -33.75 42.06
 110.00 22 59 23 4710.59 31.21 195.39 256.00 75.28 24 17 54 4110.6 28.87 186.97

DIFFERENTIAL CORRECTIONS

TDE-1.2111 TRA-2.8813 TC3 -.2248 BAU .5100
 RDE -.9612 RRA .5638 RC3 -.0247 FAU .01014
 FDE .6681 FRA 1.2608 FC3 -.0521 BSP 4310
 BDE 1.5462 BRA 2.9360 BC3 .2262 FSP -138

MID-COURSE EXECUTION ACCURACY

SGT 1503.9 SGR 496.5 SC3 55.9
 RRT -.0748 RRF .0738 RTF -.8164
 SGB 1583.7 R23 -.0052 R13 .8165
 SG1 1504.4 SG2 495.0 THA 178.41

ORBIT DETERMINATION ACCURACY

ST 658.0 SR 430.7 SS 597.6
 CRT .6981 CRS .7693 CST .9938
 LSA 947.3 MSA 279.0 SSA 16.7
 EL1 736.6 EL2 275.4 ALF 28.99

LAUNCH DATE NOV 16 1968

FLIGHT TIME 100.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 207.914

RL 147.92 LAL -.00 LOL 53.70 VL 22.544 GAL 21.15 AZL 87.24 HCA 74.16 SMA 103.19 ECC .54188 INC 2.7605 VI 30.120
 RP 107.48 LAP 2.66 LOP 127.85 VP 34.402 GAP -32.73 AZP 89.25 TAL 159.41 TAP 233.57 RCA 47.27 APO 159.11 V2 35.258
 RC 72.381 GL 4.64 GP -2.01 ZAL 47.16 ZAP 18.90 ETS 172.98 ZAE 127.56 ETE 189.04 ZAC 62.83 ETC 161.73 CLP 18.80

PLANETOCENTRIC CONIC

C3 156.506 VHL 12.510 DLA 6.93 RAL 4.32 RAD 6570.7 VEL 16.668 PTH 2.89 VHP 19.649 DPA -17.53 RAP 330.70 ECC 3.5757
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 5 37 2909.10 -28.29 89.80 263.78 88.82 7 54 7 2309.1 -28.16 81.14
 90.00 20 47 42 5120.10 24.94 227.70 257.00 76.13 22 13 2 4520.1 22.78 219.69
 100.00 8 30 17 2636.06 -29.88 69.75 263.82 89.15 9 14 13 2036.1 -29.68 60.95
 100.00 22 5 43 4868.37 26.47 208.76 256.57 75.59 23 26 52 4268.4 24.23 200.68
 110.00 9 46 6 2398.79 -34.18 51.77 263.85 90.09 10 26 4 1798.8 -33.79 42.55
 110.00 23 6 24 4678.40 30.63 193.06 255.29 74.02 24 24 22 4078.4 28.13 184.76

DIFFERENTIAL CORRECTIONS

TDE-1.2360 TRA-2.9193 TC3 -.2383 BAU .5019
 RDE -.9179 RRA .5406 RC3 -.0275 FAU .01020
 FDE .6965 FRA 1.3037 FC3 -.0564 BSP 4198
 BDE 1.5395 BRA 2.9689 BC3 .2399 FSP -145

MID-COURSE EXECUTION ACCURACY

SGT 1577.9 SGR 493.6 SC3 60.1
 RRT -.0731 RRF .0746 RTF -.8263
 SGB 1653.3 R23 -.0078 R13 .8263
 SG1 1578.4 SG2 492.2 THA 178.55

ORBIT DETERMINATION ACCURACY

ST 695.7 SR 427.0 SS 622.2
 CRT .6994 CRS .7705 CST .9938
 LSA 987.7 MSA 278.7 SSA 16.9
 EL1 768.1 EL2 276.4 ALF 27.01

LAUNCH DATE NOV 16 1968

FLIGHT TIME 102.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 214.396

RL 147.92 LAL -0.00 LOL 53.70 VL 22.912 GAL 20.29 AZL 87.16 HCA 77.41 SMA 104.55 ECC .52127 INC 2.8394 V1 30.120
 RP 107.48 LAP 2.77 LOP 131.10 VP 34.644 GAP -31.38 AZP 89.38 TAL 158.58 TAP 235.99 RCA 50.05 APO 159.05 V2 35.259
 RC 70.281 GL 5.07 GP -2.10 ZAL 46.34 ZAP 17.63 ETS 172.34 ZAE 128.12 ETE 189.65 ZAC 64.72 ETC 162.15 CLP 17.51

PLANETOCENTRIC CONIC

C3 145.273 VHL 12.053 DLA 7.66 RAL 4.94 RAD 6570.6 VEL 16.328 PTH 2.86 VMP 18.929 DPA -16.96 RAP 332.66 ECC 3.3908
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 2 27 2918.90 -28.28 90.52 263.74 88.46 7 51 6 2318.9 -28.19 81.85
 90.00 20 55 47 5083.50 24.31 225.20 256.38 75.02 22 20 31 4483.5 22.02 217.28
 100.00 8 27 28 2644.66 -29.87 70.39 263.79 88.82 9 11 33 2044.7 -29.72 61.59
 100.00 22 13 27 4832.97 25.85 206.32 255.92 74.44 23 34 0 4233.0 23.47 198.33
 110.00 9 44 8 2404.77 -34.18 52.24 263.85 89.82 10 24 13 1804.8 -33.83 43.01
 110.00 23 13 17 4645.63 29.99 190.72 254.54 72.77 24 30 42 4045.6 27.34 182.54

DIFFERENTIAL CORRECTIONS

TDE -1.2723 TRA -2.9671 TC3 -.2554 BAU .4996
 ROE -.8750 RRA .5174 RC3 -.0305 FAU .01018
 FOE .7282 FRA 1.3500 FC3 -.0607 BSP 3804
 BOE 1.5441 BRA 3.0119 BC3 .2573 FSP -149

MID-COURSE EXECUTION ACCURACY

SGT 1664.4 SGR 489.9 SG3 64.7
 RRT -.0691 RRF .0749 RTF -.8352
 SGB 1735.0 R23 -.0118 R13 .8353
 SGI 1664.8 SG2 488.6 THA 178.73

ORBIT DETERMINATION ACCURACY

ST 740.5 SR 422.6 SS 649.2
 CRT .7025 CRS .7721 CST .9940
 LSA 1035.0 MSA 277.4 SSA 17.2
 EL1 806.7 EL2 276.1 ALF 24.96

LAUNCH DATE NOV 16 1968

FLIGHT TIME 104.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 220.919

RL 147.92 LAL -0.00 LOL 53.70 VL 23.259 GAL 19.47 AZL 87.08 HCA 80.65 SMA 105.88 ECC .50123 INC 2.9164 V1 30.120
 RP 107.48 LAP 2.88 LOP 134.35 VP 34.874 GAP -30.07 AZP 89.53 TAL 157.79 TAP 238.44 RCA 52.81 APO 158.96 V2 35.259
 RC 68.209 GL 5.51 GP -2.20 ZAL 45.58 ZAP 16.36 ETS 171.56 ZAE 128.77 ETE 190.30 ZAC 66.63 ETC 162.54 CLP 16.22

PLANETOCENTRIC CONIC

C3 134.821 VHL 11.611 DLA 8.39 RAL 5.51 RAD 6570.4 VEL 16.005 PTH 2.82 VMP 18.226 DPA -16.39 RAP 334.62 ECC 3.2188
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 58 59 2928.42 -28.26 91.21 263.61 88.11 7 47 48 2328.4 -28.22 82.55
 90.00 21 3 46 5046.15 23.63 222.68 255.70 73.93 22 27 52 4446.2 21.20 214.85
 100.00 8 24 24 2652.95 -29.86 71.01 263.67 88.49 9 8 37 2053.0 -29.75 62.20
 100.00 22 21 2 4796.85 25.17 203.85 255.20 73.32 23 40 59 4196.9 22.64 195.96
 110.00 9 41 55 2410.37 -34.18 52.68 263.75 89.56 10 22 5 1810.4 -33.86 43.44
 110.00 23 20 1 4612.20 29.29 188.37 253.73 71.53 24 36 53 4012.2 26.49 180.31

DIFFERENTIAL CORRECTIONS

TDE -1.1245 TRA -2.8279 TC3 -.2191 BAU .3997
 ROE -.8531 RRA .4934 RC3 -.0341 FAU .01151
 FOE .7330 FRA 1.3697 FC3 -.0739 BSP 7822
 BOE 1.3995 BRA 2.8706 BC3 .2217 FSP -214

MID-COURSE EXECUTION ACCURACY

SGT 1598.9 SGR 485.6 SG3 68.4
 RRT -.1014 RRF .0859 RTF -.8507
 SGB 1671.0 R23 .0091 R13 .8506
 SGI 1599.7 SG2 482.9 THA 178.06

ORBIT DETERMINATION ACCURACY

ST 698.0 SR 417.7 SS 654.7
 CRT .6754 CRS .7690 CST .9902
 LSA 1005.1 MSA 282.4 SSA 16.1
 EL1 763.0 EL2 281.7 ALF 25.77

LAUNCH DATE NOV 16 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 227.511

RL 147.92 LAL -0.00 LOL 53.70 VL 23.586 GAL 18.69 AZL 87.01 HCA 83.90 SMA 107.19 ECC .48193 INC 2.9920 V1 30.120
 RP 107.48 LAP 2.98 LOP 137.60 VP 35.092 GAP -28.81 AZP 89.68 TAL 157.01 TAP 240.91 RCA 55.53 APO 158.85 V2 35.257
 RC 66.167 GL 5.98 GP -2.31 ZAL 44.86 ZAP 15.11 ETS 170.59 ZAE 129.50 ETE 190.99 ZAC 68.54 ETC 162.92 CLP 14.93

PLANETOCENTRIC CONIC

C3 125.239 VHL 11.191 DLA 9.13 RAL 6.04 RAD 6570.3 VEL 15.703 PTH 2.79 VMP 17.545 DPA -15.80 RAP 336.57 ECC 3.0611
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 55 17 2938.02 -28.24 91.91 263.42 87.76 7 44 15 2338.0 -28.25 83.25
 90.00 21 11 43 5008.13 22.89 220.14 254.99 72.86 22 35 11 4408.1 20.33 212.40
 100.00 8 21 5 2661.29 -29.84 71.63 263.49 88.17 9 5 26 2061.3 -29.78 62.82
 100.00 22 28 35 4760.10 24.43 201.37 254.46 72.21 23 47 56 4160.1 21.76 193.59
 110.00 9 39 29 2415.94 -34.18 53.11 263.60 89.30 10 19 45 1815.9 -33.90 43.88
 110.00 23 26 41 4578.20 28.53 186.01 252.91 70.33 24 42 59 3978.2 25.59 178.08

DIFFERENTIAL CORRECTIONS

TDE -1.2202 TRA -2.9309 TC3 -.2531 BAU .4284
 ROE -.7908 RRA .4709 RC3 -.0375 FAU .01112
 FOE .7773 FRA 1.4287 FC3 -.0769 BSP 6015
 BOE 1.4541 BRA 2.9685 BC3 .2558 FSP -202

MID-COURSE EXECUTION ACCURACY

SGT 1738.1 SGR 480.2 SG3 74.2
 RRT -.0847 RRF .0831 RTF -.8560
 SGB 1803.2 R23 -.0047 R13 .8560
 SGI 1738.6 SG2 478.4 THA 178.55

ORBIT DETERMINATION ACCURACY

ST 773.6 SR 411.5 SS 691.0
 CRT .6898 CRS .7722 CST .9921
 LSA 1080.7 MSA 277.4 SSA 16.8
 EL1 831.2 EL2 277.2 ALF 22.83

LAUNCH DATE NOV 16 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 234.143

RL 147.92 LAL -0.00 LOL 53.70 VL 23.894 GAL 17.94 AZL 86.93 HCA 87.15 SMA 108.48 ECC .46327 INC 3.0667 V1 30.120
 RP 107.49 LAP 3.06 LOP 140.85 VP 35.298 GAP -27.59 AZP 89.85 TAL 156.26 TAP 243.41 RCA 58.22 APO 158.73 V2 35.256
 RC 64.161 GL 6.47 GP -2.43 ZAL 44.18 ZAP 13.86 ETS 169.39 ZAE 130.33 ETE 191.74 ZAC 70.46 ETC 163.28 CLP 13.65

PLANETOCENTRIC CONIC

C3 116.364 VHL 10.787 DLA 9.87 RAL 6.52 RAD 6570.2 VEL 15.418 PTH 2.76 VMP 16.882 DPA -15.22 RAP 338.52 ECC 2.9151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 51 16 2947.60 -28.21 92.61 263.16 87.41 7 40 23 2347.6 -28.27 83.95
 90.00 21 19 35 4969.31 22.09 217.57 254.24 71.82 22 42 25 4369.3 19.40 209.93
 100.00 8 17 29 2669.55 -29.82 72.24 263.23 87.84 9 1 58 2069.6 -29.80 63.44
 100.00 22 36 4 4722.59 23.62 198.87 253.68 71.13 23 54 46 4122.6 20.83 191.19
 110.00 9 36 47 2421.36 -34.17 53.53 263.37 89.05 10 17 9 1821.4 -33.93 44.30
 110.00 23 33 14 4543.54 27.72 183.65 252.04 69.14 24 48 58 3943.5 24.63 175.84

DIFFERENTIAL CORRECTIONS

TDE -1.2455 TRA -2.9607 TC3 -.2665 BAU .4196
 ROE -.7493 RRA .4485 RC3 -.0413 FAU .01127
 FOE .8128 FRA 1.4791 FC3 -.0838 BSP 5894
 BOE 1.4535 BRA 2.9944 BC3 .2697 FSP -213

MID-COURSE EXECUTION ACCURACY

SGT 1821.0 SGR 474.1 SG3 79.9
 RRT -.0827 RRF .0846 RTF -.8638
 SGB 1881.7 R23 -.0080 R13 .8638
 SGI 1821.5 SG2 472.4 THA 178.68

ORBIT DETERMINATION ACCURACY

ST 816.8 SR 404.5 SS 719.9
 CRT .6918 CRS .7735 CST .9922
 LSA 1128.5 MSA 274.5 SSA 17.0
 EL1 869.2 EL2 274.5 ALF 21.12

LAUNCH DATE NOV 16 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 240.814

RL 147.92 LAL -.00 LOL 53.70 VL 24.184 GAL 17.23 AZL 86.86 MCA 90.39 SMA 109.73 ECC .44528 INC 3.1409 V1 30.120
 RP 107.50 LAP 3.14 LOP 144.10 VP 35.493 GAP -26.42 AZP 90.02 TAL 155.53 TAP 245.93 RCA 60.87 APO 158.59 V2 35.253
 RC 62.196 GL 6.99 GP -2.56 ZAL 43.56 ZAP 12.63 ETS 167.88 ZAE 131.25 ETE 192.55 ZAC 72.39 ETC 163.61 CLP 12.37

PLANETOCENTRIC CONIC

C3 108.163 VML 10.400 DLA 10.62 RAL 6.96 RAD 6570.1 VEL 15.149 PTH 2.72 VHP 16.237 DPA -14.62 RAP 340.47 ECC 2.7801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 46 55 2957.30 -28.18 95.32 262.82 87.05 7 36 13 2357.3 -28.29 84.66
 90.00 21 27 26 4929.67 21.23 214.99 253.45 70.81 22 49 35 4329.7 18.41 207.44
 100.00 8 13 34 2677.88 -29.80 72.86 262.90 87.52 8 58 11 2077.9 -29.82 64.05
 100.00 22 43 28 4684.32 22.76 196.36 252.86 70.08 24 1 33 4084.3 19.84 188.78
 110.00 9 33 49 2426.74 -34.16 53.95 263.07 88.80 10 14 16 1826.7 -33.95 44.72
 110.00 23 39 43 4508.22 26.84 181.28 251.14 67.99 24 54 51 3908.2 23.61 173.60

DIFFERENTIAL CORRECTIONS

TDE-1.2512 TRA-2.9683 TC3 -.2731 BAU .4003
 RDE -.7083 RRA .4264 RC3 -.0453 FAU .01159
 FDE .8473 FRA 1.5284 FC3 -.0928 BSP 6249
 BOE 1.4378 BRA 2.9988 BC3 .2768 FSP -233

MID-COURSE EXECUTION ACCURACY

SGT 1888.4 SGR 467.2 SG3 85.9
 RRT -.0851 RRF .0879 RTF -.8719
 SGB 1945.3 R23 -.0089 R13 .8720
 SGI 1888.8 SG2 465.4 THA 178.72

ORBIT DETERMINATION ACCURACY

ST 851.2 SR 396.7 SS 747.6
 CRT .6906 CRS .7742 CST .9919
 LSA 1169.0 MSA 271.8 SSA 17.0
 EL1 899.0 EL2 271.7 ALF 19.72

LAUNCH DATE NOV 16 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 247.521

RL 147.92 LAL -.00 LOL 53.70 VL 24.457 GAL 16.54 AZL 86.78 MCA 93.64 SMA 110.95 ECC .42797 INC 3.2152 V1 30.120
 RP 107.51 LAP 3.21 LOP 147.35 VP 35.676 GAP -25.28 AZP 90.20 TAL 154.84 TAP 248.48 RCA 63.46 APO 158.43 V2 35.250
 RC 60.278 GL 7.53 GP -2.71 ZAL 42.98 ZAP 11.41 ETS 165.95 ZAE 132.27 ETE 193.44 ZAC 74.32 ETC 163.94 CLP 11.09

PLANETOCENTRIC CONIC

C3 100.597 VML 10.030 DLA 11.38 RAL 7.35 RAD 6569.9 VEL 14.898 PTH 2.69 VHP 15.610 DPA -14.04 RAP 342.40 ECC 2.6556
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 14 2967.26 -28.14 94.05 262.41 66.69 7 31 41 2367.3 -28.30 85.39
 90.00 21 35 15 4889.18 20.30 212.38 252.64 69.82 22 56 44 4289.2 17.37 204.93
 100.00 8 9 19 2686.41 -29.77 73.49 262.51 87.19 8 54 5 2086.4 -29.84 64.69
 100.00 22 50 51 4645.26 21.83 193.83 252.02 69.06 24 8 17 4045.3 18.79 186.36
 110.00 9 30 33 2432.21 -34.16 54.38 262.70 88.55 10 11 5 1832.2 -33.98 45.14
 110.00 23 46 7 4472.22 25.90 178.90 250.22 66.87 25 0 39 3872.2 22.54 171.36

DIFFERENTIAL CORRECTIONS

TDE-1.2671 TRA-2.9836 TC3 -.2829 BAU .3863
 RDE -.6678 RRA .4050 RC3 -.0497 FAU .01186
 FDE .8861 FRA 1.5821 FC3 -.1021 BSP 6362
 BOE 1.4323 BRA 3.0109 BC3 .2872 FSP -250

MID-COURSE EXECUTION ACCURACY

SGT 1966.9 SGR 459.5 SG3 92.6
 RRT -.0858 RRF .0911 RTF -.8792
 SGB 2019.9 R23 -.0114 R13 .8793
 SGI 1967.3 SG2 457.7 THA 178.79

ORBIT DETERMINATION ACCURACY

ST 892.4 SR 388.0 SS 778.0
 CRT .6911 CRS .7752 CST .9918
 LSA 1216.5 MSA 268.1 SSA 17.1
 EL1 935.6 EL2 267.5 ALF 18.27

LAUNCH DATE NOV 16 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 254.259

RL 147.92 LAL -.00 LOL 53.70 VL 24.714 GAL 15.89 AZL 86.71 MCA 96.88 SMA 112.13 ECC .41133 INC 3.2900 V1 30.120
 RP 107.52 LAP 3.27 LOP 150.60 VP 35.849 GAP -24.18 AZP 90.39 TAL 154.17 TAP 251.05 RCA 66.01 APO 158.25 V2 35.246
 RC 58.412 GL 8.11 GP -2.88 ZAL 42.45 ZAP 10.21 ETS 163.45 ZAE 133.39 ETE 194.40 ZAC 76.25 ETC 164.24 CLP 9.80

PLANETOCENTRIC CONIC

C3 93.618 VML 9.676 DLA 12.15 RAL 7.70 RAD 6569.8 VEL 14.662 PTH 2.66 VHP 15.001 DPA -13.45 RAP 344.34 ECC 2.5407
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 37 10 2977.60 -28.10 94.80 261.93 86.32 7 26 47 2377.6 -28.31 86.14
 90.00 21 43 5 4847.78 19.30 209.75 251.80 68.87 23 3 53 4247.8 16.26 202.40
 100.00 8 4 43 2695.24 -29.74 74.15 262.05 86.84 8 49 38 2095.2 -29.86 65.34
 100.00 22 58 13 4605.37 20.84 191.28 251.15 68.07 24 14 59 4005.4 17.68 183.91
 110.00 9 26 58 2437.84 -34.15 54.82 262.27 88.29 10 7 36 1837.8 -34.01 45.58
 110.00 23 52 27 4435.54 24.89 176.52 249.28 65.78 25 6 23 3835.5 21.41 169.11

DIFFERENTIAL CORRECTIONS

TDE-1.2759 TRA-2.9887 TC3 -.2892 BAU .3683
 RDE -.6279 RRA .3842 RC3 -.0543 FAU .01223
 FDE .9266 FRA 1.6373 FC3 -.1131 BSP 6655
 BOE 1.4220 BRA 3.0133 BC3 .2942 FSP -272

MID-COURSE EXECUTION ACCURACY

SGT 2039.9 SGR 451.0 SG3 99.7
 RRT -.0887 RRF .0956 RTF -.8865
 SGB 2089.2 R23 -.0130 R13 .8866
 SGI 2040.4 SG2 449.2 THA 178.82

ORBIT DETERMINATION ACCURACY

ST 930.6 SR 378.3 SS 809.0
 CRT .6903 CRS .7758 CST .9916
 LSA 1262.4 MSA 264.1 SSA 17.1
 EL1 969.6 EL2 262.7 ALF 16.96

LAUNCH DATE NOV 16 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 261.024

RL 147.92 LAL -.00 LOL 53.70 VL 24.955 GAL 15.26 AZL 86.63 MCA 100.13 SMA 113.28 ECC .39537 INC 3.3658 V1 30.120
 RP 107.53 LAP 3.31 LOP 153.85 VP 36.011 GAP -23.12 AZP 90.59 TAL 153.53 TAP 253.66 RCA 68.49 APO 158.06 V2 35.241
 RC 56.605 GL 8.71 GP -3.06 ZAL 41.98 ZAP 9.04 ETS 160.14 ZAE 134.62 ETE 195.47 ZAC 78.18 ETC 164.54 CLP 8.51

PLANETOCENTRIC CONIC

C3 87.187 VML 9.337 DLA 12.93 RAL 8.00 RAD 6569.7 VEL 14.441 PTH 2.62 VHP 14.409 DPA -12.87 RAP 346.26 ECC 2.4349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 40 2988.49 -28.05 95.59 261.40 85.92 7 21 29 2388.5 -28.32 86.94
 90.00 21 50 57 4805.44 18.24 207.10 250.94 67.96 23 11 3 4205.4 15.09 199.84
 100.00 7 59 43 2704.54 -29.70 74.83 261.52 86.48 8 44 48 2104.5 -29.88 66.03
 100.00 23 5 36 4564.62 19.78 188.72 250.27 67.12 24 21 40 3964.6 16.51 181.45
 110.00 9 23 3 2443.78 -34.13 55.28 261.77 88.01 10 3 47 1843.8 -34.03 46.04
 110.00 0 2 41 4398.15 23.83 174.14 248.32 64.73 1 15 59 3798.1 20.23 166.85

DIFFERENTIAL CORRECTIONS

TDE-1.2847 TRA-2.9907 TC3 -.2945 BAU .3502
 RDE -.5884 RRA .3643 RC3 -.0591 FAU .01263
 FDE .9703 FRA 1.6954 FC3 -.1255 BSP 6956
 BOE 1.4131 BRA 3.0128 BC3 .3004 FSP -296

MID-COURSE EXECUTION ACCURACY

SGT 2114.1 SGR 441.8 SG3 107.5
 RRT -.0926 RRF .1014 RTF -.8933
 SGB 2159.7 R23 -.0150 R13 .8934
 SGI 2114.5 SG2 439.8 THA 178.84

ORBIT DETERMINATION ACCURACY

ST 970.0 SR 367.6 SS 841.7
 CRT .6895 CRS .7763 CST .9914
 LSA 1310.2 MSA 259.5 SSA 17.1
 EL1 1004.9 EL2 257.0 ALF 15.70

LAUNCH DATE NOV 16 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 267.811

RL 147.92 LAL -.00 LOL 53.70 VL 25.182 GAL 14.66 AZL 86.56 MCA 103.37 SMA 114.39 ECC .38008 INC 3.4431 V1 30.120
 RP 107.55 LAP 3.35 LOP 157.10 VP 36.163 GAP -22.09 AZP 90.80 TAL 152.92 TAP 256.29 RCA 70.91 APO 157.87 V2 35.235
 RC 54.864 GL 9.34 GP -3.26 ZAL 41.56 ZAP 7.92 ETS 155.68 ZAE 135.95 ETE 196.65 ZAC 80.11 ETC 164.82 CLP 7.22

PLANETOCENTRIC CONIC

C3 81.268 VML 9.015 DLA 13.73 RAL 8.25 RAD 6569.6 VEL 14.234 PTH 2.59 VHP 13.834 DPA -12.30 RAP 348.18 ECC 2.3375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 25 44 3000.11 -27.99 96.44 260.80 85.50 7 15 44 2400.1 -28.32 87.79
 90.00 21 58 54 4762.08 17.12 204.41 250.07 67.09 23 18 16 4162.1 13.87 197.24
 100.00 7 54 18 2714.47 -29.66 75.57 260.94 86.10 8 39 33 2114.5 -29.89 66.77
 100.00 23 13 1 4522.96 18.66 186.14 249.37 66.21 24 28 23 3923.0 15.28 178.97
 110.00 9 18 46 2450.15 -34.12 55.78 261.22 87.72 9 59 37 1850.2 -34.06 46.54
 110.00 0 8 57 4360.04 22.70 171.76 247.35 63.73 1 21 37 3760.0 18.98 164.59

DIFFERENTIAL CORRECTIONS

TDE -1.2954 TRA -2.9913 TC3 -.2994 BAU .3327
 RDE -.5494 RRA .3455 RC3 -.0643 FAU .01307
 FDE 1.0180 FRA 1.7572 FC3 -.1393 BSP 7224
 BDE 1.4071 BRA 3.0111 BC3 .3062 FSP -321

MID-COURSE EXECUTION ACCURACY

SGT 2190.8 SGR 431.8 SG3 116.0
 RRT -.0975 RRF .1086 RTF -.8998
 SGB 2232.9 R23 -.0174 R13 .8998
 SG1 2191.2 SG2 429.7 THA 178.85

ORBIT DETERMINATION ACCURACY

ST 1011.4 SR 355.8 SS 876.4
 CRT .6886 CRS .7764 CST .9913
 LSA 1361.1 MSA 254.3 SSA 17.1
 EL1 1042.5 EL2 250.3 ALF 14.47

LAUNCH DATE NOV 16 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 274.618

RL 147.92 LAL -.00 LOL 53.70 VL 25.395 GAL 14.08 AZL 86.48 MCA 106.61 SMA 115.46 ECC .36545 INC 3.5225 V1 30.120
 RP 107.57 LAP 3.38 LOP 160.35 VP 36.306 GAP -21.09 AZP 91.01 TAL 152.35 TAP 258.96 RCA 73.27 APO 157.66 V2 35.229
 RC 53.197 GL 10.01 GP -3.49 ZAL 41.20 ZAP 6.86 ETS 149.55 ZAE 137.40 ETE 197.96 ZAC 82.04 ETC 165.09 CLP 5.91

PLANETOCENTRIC CONIC

C3 75.824 VML 8.708 DLA 14.54 RAL 8.45 RAD 6569.5 VEL 14.042 PTH 2.56 VHP 13.276 DPA -11.75 RAP 350.09 ECC 2.2479
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 17 3012.67 -27.92 97.35 260.15 85.05 7 9 30 2412.7 -28.31 88.71
 90.00 22 6 57 4717.63 15.92 201.70 249.19 66.27 23 25 34 4117.6 12.57 194.62
 100.00 7 48 29 2725.20 -29.61 76.36 260.31 85.69 8 33 51 2125.2 -29.89 67.57
 100.00 23 20 29 4480.33 17.47 183.53 248.46 65.35 24 35 10 3880.3 13.99 176.46
 110.00 9 14 6 2457.11 -34.10 56.32 260.62 87.40 9 55 3 1857.1 -34.08 47.08
 110.00 0 15 14 4321.19 21.51 169.37 246.37 62.77 1 27 15 3721.2 17.69 162.33

DIFFERENTIAL CORRECTIONS

TDE -1.3067 TRA -2.9889 TC3 -.3031 BAU .3153
 RDE -.5109 RRA .3277 RC3 -.0697 FAU .01356
 FDE 1.0701 FRA 1.8226 FC3 -.1548 BSP 7493
 BDE 1.4030 BRA 3.0068 BC3 .3110 FSP -349

MID-COURSE EXECUTION ACCURACY

SGT 2268.5 SGR 421.1 SG3 125.3
 RRT -.1042 RRF .1179 RTF -.9059
 SGB 2307.2 R23 -.0203 R13 .9060
 SG1 2268.9 SG2 418.8 THA 178.85

ORBIT DETERMINATION ACCURACY

ST 1054.0 SR 342.8 SS 913.3
 CRT .6874 CRS .7762 CST .9911
 LSA 1414.4 MSA 248.6 SSA 17.1
 EL1 1081.5 EL2 242.6 ALF 13.28

LAUNCH DATE NOV 16 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 281.439

RL 147.92 LAL -.00 LOL 53.70 VL 25.595 GAL 13.53 AZL 86.40 MCA 109.86 SMA 116.49 ECC .35149 INC 3.6046 V1 30.120
 RP 107.59 LAP 3.39 LOP 163.60 VP 36.439 GAP -20.13 AZP 91.23 TAL 151.80 TAP 261.66 RCA 75.55 APO 157.44 V2 35.222
 RC 51.611 GL 10.71 GP -3.74 ZAL 40.89 ZAP 5.92 ETS 141.01 ZAE 138.95 ETE 199.44 ZAC 83.96 ETC 165.36 CLP 4.59

PLANETOCENTRIC CONIC

C3 70.825 VML 8.416 DLA 15.38 RAL 8.60 RAD 6569.4 VEL 13.863 PTH 2.53 VHP 12.734 DPA -11.23 RAP 351.99 ECC 2.1656
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 17 3026.39 -27.83 98.35 259.44 84.56 7 2 43 2426.4 -28.29 89.71
 90.00 22 15 8 4672.00 14.65 198.95 248.30 65.49 23 33 0 4072.0 11.22 191.95
 100.00 7 42 2 2736.94 -29.54 77.23 259.62 85.23 8 27 39 2136.9 -29.89 68.44
 100.00 23 28 4 4436.67 16.21 180.90 247.55 64.53 24 42 1 3836.7 12.65 173.92
 110.00 9 9 0 2464.82 -34.07 56.92 259.98 87.05 9 50 5 1864.8 -34.10 47.68
 110.00 0 21 31 4281.56 20.26 166.98 245.40 61.86 1 32 53 3681.6 16.33 160.05

DIFFERENTIAL CORRECTIONS

TDE -1.3192 TRA -2.9842 TC3 -.3058 BAU .2982
 RDE -.4728 RRA .3113 RC3 -.0753 FAU .01408
 FDE 1.1272 FRA 1.8924 FC3 -.1721 BSP 7747
 BDE 1.4013 BRA 3.0004 BC3 .3150 FSP -380

MID-COURSE EXECUTION ACCURACY

SGT 2347.6 SGR 409.9 SG3 135.5
 RRT -.1131 RRF .1298 RTF -.9116
 SGB 2385.2 R23 -.0237 R13 .9117
 SG1 2348.1 SG2 407.1 THA 178.83

ORBIT DETERMINATION ACCURACY

ST 1098.4 SR 328.6 SS 952.6
 CRT .6856 CRS .7752 CST .9910
 LSA 1470.7 MSA 242.4 SSA 17.1
 EL1 1122.3 EL2 234.1 ALF 12.13

LAUNCH DATE NOV 16 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 288.272

RL 147.92 LAL -.00 LOL 53.70 VL 25.783 GAL 13.00 AZL 86.31 MCA 113.10 SMA 117.49 ECC .33816 INC 3.6902 V1 30.120
 RP 107.61 LAP 3.39 LOP 166.84 VP 36.564 GAP -19.19 AZP 91.45 TAL 151.29 TAP 264.39 RCA 77.76 APO 157.22 V2 35.215
 RC 50.116 GL 11.46 GP -4.03 ZAL 40.64 ZAP 5.18 ETS 129.27 ZAE 140.60 ETE 201.13 ZAC 85.87 ETC 165.62 CLP 3.26

PLANETOCENTRIC CONIC

C3 66.241 VML 8.139 DLA 16.23 RAL 8.70 RAD 6569.3 VEL 13.697 PTH 2.50 VHP 12.208 DPA -10.72 RAP 353.88 ECC 2.0902
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 39 3041.55 -27.73 99.44 258.69 84.02 6 55 20 2441.5 -28.27 90.82
 90.00 22 23 33 4625.04 13.30 196.16 247.42 64.77 23 40 38 4025.0 9.80 189.24
 100.00 7 35 4 2749.95 -29.47 78.19 258.89 84.73 8 20 54 2149.9 -29.88 69.41
 100.00 23 35 49 4391.88 14.88 178.24 246.64 63.77 24 49 0 3791.9 11.23 171.34
 110.00 9 3 26 2473.47 -34.04 57.60 259.29 86.65 9 44 39 1873.5 -34.13 48.35
 110.00 0 27 32 4241.12 18.94 164.58 244.42 61.00 1 38 33 3641.1 14.93 157.76

DIFFERENTIAL CORRECTIONS

TDE -1.3326 TRA -2.9766 TC3 -.3073 BAU .2815
 RDE -.4349 RRA .2964 RC3 -.0813 FAU .01465
 FDE 1.1901 FRA 1.9668 FC3 -.1915 BSP 8001
 BDE 1.4017 BRA 2.9913 BC3 .3179 FSP -413

MID-COURSE EXECUTION ACCURACY

SGT 2427.6 SGR 398.0 SG3 146.6
 RRT -.1251 RRF .1453 RTF -.9171
 SGB 2460.0 R23 -.0276 R13 .9172
 SG1 2428.1 SG2 394.8 THA 178.79

ORBIT DETERMINATION ACCURACY

ST 1144.1 SR 313.0 SS 994.6
 CRT .6829 CRS .7733 CST .9909
 LSA 1529.8 MSA 235.7 SSA 17.0
 EL1 1164.7 EL2 224.6 ALF 11.00

LAUNCH DATE NOV 16 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 295.113

RL 147.92 LAL -0.00 LOL 53.70 VL 25.958 GAL 12.50 AZL 86.22 HCA 116.33 SMA 118.44 ECC .32547 INC 3.7798 V1 30.120
 RP 107.64 LAP 3.39 LOP 170.09 VP 36.680 GAP -18.28 AZP 91.68 TAL 150.81 TAP 267.15 RCA 79.89 APO 156.99 V2 35.207
 RC 48.721 GL 12.25 GP -4.35 ZAL 40.46 ZAP 4.76 ETS 114.09 ZAE 142.34 ETE 203.05 ZAC 87.78 ETC 165.88 CLP 1.91

PLANETOCENTRIC CONIC

C3 62.042 VHL 7.877 DLA 17.11 RAL 8.74 RAD 6569.2 VEL 13.542 PTH 2.48 VHP 11.698 DPA -10.26 RAP 355.77 ECC 2.0211
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 56 18 3058.47 -27.60 100.67 257.89 83.42 6 47 16 2450.5 -28.23 92.06
 90.00 22 32 14 4576.60 11.88 193.32 246.55 64.11 23 48 30 3976.6 8.30 186.46
 100.00 7 27 28 2764.48 -29.37 79.26 258.11 84.18 8 13 32 2164.5 -29.87 70.49
 100.00 23 43 45 4345.83 13.47 175.54 245.74 63.06 24 56 11 3745.8 9.75 168.72
 110.00 8 57 21 2483.26 -34.00 58.36 258.57 86.20 9 38 44 1883.3 -34.15 49.12
 110.00 0 34 17 4199.81 17.56 162.18 243.45 60.19 1 44 17 3599.8 13.46 155.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3389 TRA-2.9573 TC3 -.3019 BAU .2607 SGT 2498.1 SGR 385.8 SG3 158.6 ST 1185.2 SR 296.0 SS 1037.6
 RDE -.3970 RRA .2833 RC3 -.0874 FAU .01539 RRT -.1437 RRF .1664 RTF -.9225 CRT .6775 CRS .7696 CST .9907
 FDE 1.2571 FRA 2.0436 FC3 -.2148 BSP .8454 SGB 2527.7 R23 -.0310 R13 .9226 LSA 1586.2 MSA 229.2 SSA 16.8
 BOE 1.3965 BRA 2.9709 BC3 .3143 FSP .454 SGI 2498.8 SG2 381.7 THA 178.70 EL1 1202.6 EL2 214.6 ALF 9.92

LAUNCH DATE NOV 16 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 301.959

RL 147.92 LAL -0.00 LOL 53.70 VL 26.122 GAL 12.02 AZL 86.13 HCA 119.57 SMA 119.35 ECC .31340 INC 3.8747 V1 30.120
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.788 GAP -17.41 AZP 91.91 TAL 150.37 TAP 269.94 RCA 81.95 APO 156.75 V2 35.198
 RC 47.437 GL 13.08 GP -4.72 ZAL 40.34 ZAP 4.75 ETS 97.03 ZAE 144.17 ETE 205.27 ZAC 89.68 ETC 166.14 CLP .54

PLANETOCENTRIC CONIC

C3 58.206 VHL 7.629 DLA 18.01 RAL 8.72 RAD 6569.1 VEL 13.400 PTH 2.45 VHP 11.203 DPA -9.84 RAP 357.65 ECC 1.9579
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 8 3077.56 -27.45 102.04 257.05 82.74 6 38 26 2477.6 -28.17 93.45
 90.00 22 41 17 4526.45 10.37 190.40 245.70 63.50 23 56 43 3926.5 6.73 183.62
 100.00 7 19 8 2780.89 -29.25 80.46 257.30 83.55 8 5 29 2180.9 -29.84 71.71
 100.00 23 51 58 4298.35 11.99 172.79 244.85 62.41 25 3 36 3698.3 8.20 166.05
 110.00 8 50 41 2494.46 -33.94 59.23 257.82 85.69 9 32 15 1894.5 -34.17 49.99
 110.00 0 40 50 4157.54 16.11 159.75 242.49 59.44 1 50 8 3557.5 11.93 153.14

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3479 TRA-2.9351 TC3 -.3000 BAU .2447 SGT 2570.3 SGR 373.5 SG3 171.7 ST 1228.2 SR 277.3 SS 1083.3
 RDE -.3591 RRA .2721 RC3 -.0941 FAU .01623 RRT -.1660 RRF .1939 RTF -.9264 CRT .6701 CRS .7637 CST .9907
 FDE 1.3307 FRA 2.1252 FC3 -.2415 BSP .7666 SGB 2597.3 R23 -.0374 R13 .9265 LSA 1645.9 MSA 222.2 SSA 16.8
 BOE 1.3949 BRA 2.9477 BC3 .3144 FSP .501 SGI 2571.1 SG2 368.2 THA 178.59 EL1 1242.6 EL2 203.5 ALF 8.84

LAUNCH DATE NOV 16 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 308.808

RL 147.92 LAL -0.00 LOL 53.70 VL 26.276 GAL 11.57 AZL 86.02 HCA 122.80 SMA 120.22 ECC .30194 INC 3.9757 V1 30.120
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.889 GAP -16.56 AZP 92.16 TAL 149.96 TAP 272.76 RCA 83.92 APO 156.52 V2 35.189
 RC 46.274 GL 13.96 GP -5.14 ZAL 40.29 ZAP 5.21 ETS 81.17 ZAE 146.05 ETE 207.86 ZAC 91.56 ETC 166.41 CLP -.85

PLANETOCENTRIC CONIC

C3 54.710 VHL 7.397 DLA 18.95 RAL 8.65 RAD 6569.0 VEL 13.269 PTH 2.42 VHP 10.725 DPA -9.47 RAP 359.53 ECC 1.9004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 1 3099.29 -27.25 103.60 256.17 81.99 6 28 40 2499.3 -28.08 95.03
 90.00 22 50 48 4474.28 8.77 187.40 244.87 62.97 24 5 23 3874.3 5.08 180.67
 100.00 7 9 58 2799.58 -29.10 81.83 256.45 82.85 7 56 37 2199.6 -29.79 73.10
 100.00 0 4 29 4249.21 10.43 169.98 243.99 61.83 1 15 18 3649.2 6.58 163.31
 110.00 8 43 22 2507.35 -33.87 60.23 257.04 85.10 9 25 9 1907.4 -34.18 51.00
 110.00 0 47 34 4114.21 14.59 157.31 241.56 58.74 1 56 8 3514.2 10.35 150.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3531 TRA-2.9079 TC3 -.2823 BAU .2191 SGT 2635.3 SGR 361.0 SG3 186.2 ST 1268.5 SR 256.8 SS 1132.5
 RDE -.3207 RRA .2633 RC3 -.1005 FAU .01714 RRT -.2009 RRF .2295 RTF -.9326 CRT .6577 CRS .7543 CST .9904
 FDE 1.4131 FRA 2.2126 FC3 -.2712 BSP .9385 SGB 2659.9 R23 -.0395 R13 .9327 LSA 1706.1 MSA 215.6 SSA 16.3
 BOE 1.3906 BRA 2.9198 BC3 .2996 FSP .551 SGI 2636.3 SG2 353.5 THA 178.39 EL1 1280.0 EL2 191.7 ALF 7.76

LAUNCH DATE NOV 16 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 315.653

RL 147.92 LAL -0.00 LOL 53.70 VL 26.420 GAL 11.13 AZL 85.92 HCA 126.04 SMA 121.05 ECC .29106 INC 4.0843 V1 30.120
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.982 GAP -15.73 AZP 92.41 TAL 149.59 TAP 275.62 RCA 85.82 APO 156.28 V2 35.179
 RC 45.244 GL 14.90 GP -5.63 ZAL 40.31 ZAP 6.06 ETS 68.66 ZAE 147.96 ETE 210.89 ZAC 93.43 ETC 166.69 CLP -2.27

PLANETOCENTRIC CONIC

C3 51.531 VHL 7.179 DLA 19.92 RAL 8.51 RAD 6568.9 VEL 13.149 PTH 2.40 VHP 10.261 DPA -9.16 RAP 1.39 ECC 1.8481
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 25 46 3124.30 -27.00 105.39 255.24 81.12 6 17 50 2524.3 -27.95 96.85
 90.00 23 0 58 4419.62 7.07 184.29 244.08 62.51 24 14 37 3819.6 3.33 177.61
 100.00 6 59 48 2821.04 -28.91 83.40 255.56 82.05 7 46 49 2221.0 -29.71 74.69
 100.00 0 13 32 4198.11 8.77 167.09 243.16 61.31 1 23 30 3598.1 4.87 160.47
 110.00 8 35 18 2522.27 -33.78 61.38 256.23 84.42 9 17 20 1922.3 -34.18 52.16
 110.00 0 54 32 4069.65 13.01 154.84 240.64 58.11 2 2 21 3469.6 8.70 148.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3357 TRA-2.8514 TC3 -.2472 BAU .1857 SGT 2668.7 SGR 349.2 SG3 201.2 ST 1290.0 SR 234.1 SS 1177.8
 RDE -.2815 RRA .2573 RC3 -.1074 FAU .01861 RRT -.2516 RRF .2789 RTF -.9381 CRT .6358 CRS .7385 CST .9897
 FDE 1.4946 FRA 2.2953 FC3 -.3127 BSP .10495 SGB 2691.5 R23 -.0403 R13 .9383 LSA 1749.7 MSA 210.3 SSA 15.7
 BOE 1.3650 BRA 2.8630 BC3 .2695 FSP .628 SGI 2670.2 SG2 337.8 THA 178.08 EL1 1298.7 EL2 179.5 ALF 6.71

LAUNCH DATE NOV 16 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 322.508

RL 147.92 LAL -.00 LOL 53.70 VL 26.553 GAL 10.72 AZL 85.80 MCA 129.27 SMA 121.84 ECC .28081 INC 4.2022 V1 30.120
 RP 107.75 LAP 3.25 LOP 183.05 VP 37.068 GAP -14.93 AZP 92.66 TAL 149.24 TAP 278.51 RCA 87.62 APO 156.05 V2 35.169
 RC 44.357 GL 15.90 GP -6.18 ZAL 40.40 ZAP 7.21 ETS 59.67 ZAE 149.85 ETE 214.47 ZAC 95.29 ETC 166.99 CLP -3.72

PLANETOCENTRIC CONIC

C3 48.678 VML 6.977 DLA 20.93 RAL 8.32 RAD 6568.8 VEL 13.040 PTH 2.38 VHP 9.815 DPA -8.94 RAP 3.26 ECC 1.8011
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 10 3153.50 -26.68 107.46 254.28 80.13 6 5 43 2553.5 -27.77 98.97
 90.00 23 12 0 4362.03 5.25 181.04 243.35 62.13 24 24 42 3762.0 1.48 174.39
 100.00 6 48 31 2846.04 -28.66 85.22 254.65 81.12 7 35 57 2246.0 -29.59 76.54
 100.00 0 23 16 4144.73 7.01 164.11 242.38 60.87 1 32 21 3544.7 3.08 157.53
 110.00 8 26 25 2539.73 -33.66 62.73 255.43 83.63 9 8 45 1939.7 -34.17 53.53
 110.00 1 1 51 4023.80 11.34 152.32 239.77 57.54 2 8 55 3423.8 6.98 145.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4728 TRA -2.9447 TC3 -.3324 BAU .2290 SGT 2895.0 SGR 339.4 SG3 222.7 ST 1437.5 SR 210.0 SS 1271.2
 RDE -.2423 RRA .2534 RC3 -.1155 FAU .01745 RRT -.2660 RRF .3196 RTF -.9386 CRT .6256 CRS .7183 CST .9919
 FDE 1.6476 FRA 2.4457 FC3 -.3104 BSP 7954 SGB 2914.9 R23 -.0692 R13 .9388 LSA 1920.2 MSA 196.7 SSA 16.6
 BOE 1.4926 BRA 2.9556 BC3 .3518 FSP -590 SG1 2896.5 SG2 327.0 THA 178.19 EL1 1443.5 EL2 163.1 ALF 5.29

LAUNCH DATE NOV 16 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 329.346

RL 147.92 LAL -.00 LOL 53.70 VL 26.678 GAL 10.33 AZL 85.67 MCA 132.50 SMA 122.59 ECC .27108 INC 4.3314 V1 30.120
 RP 107.79 LAP 3.19 LOP 186.28 VP 37.147 GAP -14.15 AZP 92.93 TAL 148.93 TAP 281.43 RCA 89.35 APO 155.82 V2 35.158
 RC 43.625 GL 16.98 GP -6.83 ZAL 40.58 ZAP 8.58 ETS 53.44 ZAE 151.66 ETE 218.70 ZAC 97.12 ETC 167.31 CLP -5.20

PLANETOCENTRIC CONIC

C3 46.093 VML 6.789 DLA 21.99 RAL 8.04 RAD 6568.7 VEL 12.940 PTH 2.36 VHP 9.383 DPA -8.81 RAP 5.13 ECC 1.7586
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 48 3187.93 -26.25 109.90 253.25 78.98 5 51 55 2587.9 -27.51 101.45
 90.00 23 24 11 4300.26 3.27 177.58 242.68 61.86 24 35 51 3700.3 -.52 170.95
 100.00 6 35 46 2875.26 -28.34 87.33 253.68 80.06 7 23 41 2275.3 -29.42 78.69
 100.00 0 33 50 4088.16 5.13 160.96 241.66 60.51 1 41 58 3488.2 1.16 154.42
 110.00 8 16 30 2560.10 -33.49 64.30 254.59 82.72 8 59 10 1960.1 -34.14 55.12
 110.00 1 9 35 3976.09 9.59 149.75 238.93 57.03 2 15 51 3376.1 5.18 143.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4697 TRA -2.8909 TC3 -.3021 BAU .2010 SGT 2937.7 SGR 331.6 SG3 241.5 ST 1470.2 SR 182.7 SS 1329.5
 RDE -.2002 RRA .2541 RC3 -.1231 FAU .01886 RRT -.3392 RRF .3946 RTF -.9433 CRT .5764 CRS .6760 CST .9916
 FDE 1.7597 FRA 2.5475 FC3 -.3543 BSP 8811 SGB 2956.3 R23 -.0755 R13 .9436 LSA 1981.3 MSA 191.1 SSA 15.9
 BOE 1.4832 BRA 2.9021 BC3 .3262 FSP -667 SG1 2939.8 SG2 311.7 THA 177.78 EL1 1474.0 EL2 148.9 ALF 4.14

LAUNCH DATE NOV 16 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 336.178

RL 147.92 LAL -.00 LOL 53.70 VL 26.794 GAL 9.95 AZL 85.53 MCA 135.72 SMA 123.29 ECC .26191 INC 4.4746 V1 30.120
 RP 107.82 LAP 3.12 LOP 189.52 VP 37.220 GAP -13.40 AZP 93.21 TAL 148.66 TAP 284.38 RCA 91.00 APO 155.58 V2 35.147
 RC 43.055 GL 18.13 GP -7.59 ZAL 40.85 ZAP 10.13 ETS 49.21 ZAE 153.32 ETE 223.68 ZAC 98.94 ETC 167.68 CLP -6.73

PLANETOCENTRIC CONIC

C3 43.787 VML 6.617 DLA 23.11 RAL 7.69 RAD 6568.7 VEL 12.851 PTH 2.34 VHP 8.967 DPA -8.79 RAP 7.01 ECC 1.7206
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 42 8 3229.43 -25.68 112.80 252.15 77.64 5 35 58 2629.4 -27.13 104.43
 90.00 23 38 1 4232.96 1.10 173.82 242.11 61.70 24 48 34 3633.0 -2.69 167.19
 100.00 6 21 11 2910.05 -27.90 89.82 252.67 78.81 7 9 41 2310.1 -29.16 81.24
 100.00 0 45 35 4027.57 3.09 157.62 241.01 60.25 1 52 43 3427.6 -1.89 151.10
 110.00 8 5 22 2584.15 -33.27 66.14 253.74 81.65 8 48 26 1984.1 -34.06 56.99
 110.00 1 17 54 3926.24 7.73 147.08 238.15 56.60 2 23 21 3326.2 3.28 140.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4768 TRA -2.8410 TC3 -.2743 BAU .1781 SGT 2986.7 SGR 328.4 SG3 262.4 ST 1509.6 SR 153.3 SS 1394.7
 RDE -.1555 RRA .2590 RC3 -.1314 FAU .02027 RRT -.4251 RRF .4836 RTF -.9474 CRT .4905 CRS .5989 CST .9914
 FDE 1.8897 FRA 2.6584 FC3 -.4008 BSP 9495 SGB 3004.7 R23 -.0848 R13 .9479 LSA 2052.6 MSA 185.4 SSA 15.2
 BOE 1.4850 BRA 2.8528 BC3 .3042 FSP -748 SG1 2990.0 SG2 296.9 THA 177.30 EL1 1511.5 EL2 133.5 ALF 2.87

LAUNCH DATE NOV 16 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 343.001

RL 147.92 LAL -.00 LOL 53.70 VL 26.902 GAL 9.60 AZL 85.36 MCA 138.95 SMA 123.96 ECC .25327 INC 4.6352 V1 30.120
 RP 107.86 LAP 3.04 LOP 192.75 VP 37.287 GAP -12.67 AZP 93.50 TAL 148.42 TAP 287.37 RCA 92.57 APO 155.36 V2 35.135
 RC 42.657 GL 19.37 GP -8.49 ZAL 41.22 ZAP 11.85 ETS 46.43 ZAE 154.71 ETE 229.46 ZAC 100.74 ETC 168.09 CLP -8.30

PLANETOCENTRIC CONIC

C3 41.755 VML 6.462 DLA 24.30 RAL 7.25 RAD 6568.6 VEL 12.772 PTH 2.32 VHP 8.567 DPA -8.93 RAP 8.90 ECC 1.6872
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 17 3280.91 -24.88 116.36 250.95 76.02 5 16 58 2680.9 -26.56 108.09
 90.00 23 54 22 4157.53 -1.33 169.61 241.69 61.71 25 3 40 3557.5 -5.10 162.96
 100.00 6 4 13 2952.27 -27.31 92.82 251.59 77.34 6 53 25 2352.3 -28.78 84.32
 100.00 0 59 4 3961.40 .85 153.99 240.48 60.12 2 5 5 3361.4 -3.13 147.47
 110.00 7 52 43 2612.82 -32.96 68.32 252.87 80.39 8 36 16 2012.8 -33.94 59.22
 110.00 1 27 3 3873.62 5.75 144.30 237.43 56.25 2 31 37 3273.6 1.27 138.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.5014 TRA -2.8016 TC3 -.2561 BAU .1630 SGT 3051.3 SGR 332.3 SG3 285.9 ST 1562.3 SR 123.3 SS 1470.6
 RDE -.1071 RRA .2691 RC3 -.1404 FAU .02150 RRT -.5198 RRF .5830 RTF -.9510 CRT .3229 CRS .4418 CST .9915
 FDE 2.0447 FRA 2.7826 FC3 -.4457 BSP 9839 SGB 3069.3 R23 -.0987 R13 .9516 LSA 2141.5 MSA 179.8 SSA 14.4
 BOE 1.5052 BRA 2.8145 BC3 .2920 FSP -823 SG1 3056.2 SG2 283.4 THA 176.73 EL1 1562.8 EL2 116.7 ALF 1.47

LAUNCH DATE NOV 16 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 349.813

RL 147.92 LAL -.00 LOL 53.70 VL 27.003 GAL 9.27 AZL 85.18 MCA 142.17 SMA 124.59 ECC .24514 INC 4.8180 V1 30.120
 RP 107.89 LAP 2.95 LOP 195.97 VP 37.349 GAP -11.95 AZP 93.81 TAL 148.21 TAP 290.38 RCA 94.05 APO 155.13 V2 35.123
 RC 42.436 GL 20.73 GP -9.57 ZAL 41.69 ZAP 13.75 ETS 44.73 ZAE 155.74 ETE 236.04 ZAC 102.53 ETC 168.59 CLP -9.92

PLANETOCENTRIC CONIC

C3 39.995 VML 6.324 DLA 25.56 RAL 6.71 RAD 6568.5 VEL 12.703 PTH 2.31 VHP 8.186 DPA -9.24 RAP 10.81 ECC 1.6582
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 29 3347.96 -23.70 120.92 249.57 74.03 4 53 17 2748.0 -25.66 112.80
 90.00 0 18 50 4068.74 -4.19 164.65 241.50 61.97 1 26 38 3468.7 -7.91 157.94
 100.00 5 43 52 3005.01 -26.47 96.51 250.40 75.57 6 33 57 2405.0 -28.19 88.13
 100.00 1 15 8 3886.92 -1.68 149.90 240.11 60.15 2 19 55 3286.9 -5.64 143.35
 110.00 7 38 9 2647.42 -32.54 70.94 251.98 78.90 8 22 16 2047.4 -33.73 61.90
 110.00 1 37 20 3817.28 3.61 141.34 236.82 55.98 2 40 57 3217.3 -1.88 135.13

DIFFERENTIAL CORRECTIONS

TDE-1.5359 TRA-2.7633 TC3 -.2408 BAU .1517
 RDE -.0530 RRA .2855 RC3 -.1501 FAU .02263
 FDE 2.2254 FRA 2.9162 FC3 -.4904 BSP 10042
 BOE 1.5368 BRA 2.7780 BC3 .2837 FSP -.899

MID-COURSE EXECUTION ACCURACY

SGT 3119.4 SGR 347.3 SG3 311.8
 RRT -.6195 RRF .6867 RTF -.9543
 SGB 3138.7 R23 -.1159 R13 .9550
 SGI 3126.9 SG2 272.0 THA 176.02

ORBIT DETERMINATION ACCURACY

ST 1621.6 SR 98.7 SS 1555.6
 CRT -.0294 CRS .0977 CST .9917
 LSA 2242.4 MSA 174.6 SSA 13.7
 EL1 1621.6 EL2 98.7 ALF 179.90

LAUNCH DATE NOV 16 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 356.611

RL 147.92 LAL -.00 LOL 53.70 VL 27.096 GAL 8.95 AZL 84.97 MCA 145.39 SMA 125.18 ECC .23752 INC 5.0291 V1 30.120
 RP 107.93 LAP 2.85 LOP 199.20 VP 37.404 GAP -11.26 AZP 94.14 TAL 148.03 TAP 293.42 RCA 95.45 APO 154.92 V2 35.111
 RC 42.394 GL 22.22 GP -10.87 ZAL 42.30 ZAP 15.84 ETS 43.86 ZAE 156.26 ETE 243.23 ZAC 104.30 ETC 169.18 CLP -11.59

PLANETOCENTRIC CONIC

C3 38.512 VML 6.206 DLA 26.93 RAL 6.06 RAD 6568.5 VEL 12.644 PTH 2.30 VHP 7.823 DPA -9.78 RAP 12.77 ECC 1.6338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 23 13 3444.90 -21.74 127.34 247.81 71.39 4 20 38 2844.9 -24.08 119.45
 90.00 0 47 53 3952.72 -7.86 158.10 241.75 62.71 1 53 46 3352.7 -11.46 151.27
 100.00 5 18 12 3074.21 -25.20 101.27 249.01 73.37 6 9 26 2474.2 -27.24 93.06
 100.00 1 35 35 3798.64 -4.66 145.04 240.01 60.44 2 38 54 3198.6 -8.56 138.43
 110.00 7 21 1 2689.91 -31.94 74.10 251.03 77.12 8 5 51 2089.9 -33.38 65.17
 110.00 1 49 16 3755.71 1.26 138.12 236.33 55.84 2 51 52 3155.7 -3.23 131.91

DIFFERENTIAL CORRECTIONS

TDE-1.5714 TRA-2.7157 TC3 -.2188 BAU .1399
 RDE -.0089 RRA .3097 RC3 -.1610 FAU .02400
 FDE 2.4302 FRA 3.0511 FC3 -.5395 BSP 10361
 BOE 1.5714 BRA 2.7333 BC3 .2717 FSP -.989

MID-COURSE EXECUTION ACCURACY

SGT 3176.1 SGR 378.0 SG3 339.8
 RRT -.7160 RRF .7841 RTF -.9575
 SGB 3198.5 R23 -.1344 R13 .9584
 SGI 3187.7 SG2 262.9 THA 175.10

ORBIT DETERMINATION ACCURACY

ST 1678.3 SR 96.8 SS 1646.5
 CRT -.5729 CRS -.4656 CST .9919
 LSA 2346.8 MSA 170.7 SSA 12.6
 EL1 1679.2 EL2 79.3 ALF 178.10

LAUNCH DATE NOV 16 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 363.395

RL 147.92 LAL -.00 LOL 53.70 VL 27.182 GAL 8.65 AZL 84.72 MCA 148.61 SMA 125.74 ECC .23039 INC 5.2775 V1 30.120
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.455 GAP -10.59 AZP 94.51 TAL 147.88 TAP 296.48 RCA 96.77 APO 154.70 V2 35.099
 RC 42.534 GL 23.86 GP -12.46 ZAL 43.05 ZAP 18.16 ETS 43.70 ZAE 156.16 ETE 250.70 ZAC 106.05 ETC 169.92 CLP -13.32

PLANETOCENTRIC CONIC

C3 37.327 VML 6.110 DLA 28.42 RAL 5.27 RAD 6568.5 VEL 12.597 PTH 2.28 VHP 7.483 DPA -10.61 RAP 14.79 ECC 1.6143
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.43 1 40 55 3760.48 -15.68 147.91 244.05 65.99 2 43 36 3160.5 -18.79 140.61
 92.57 2 23 52 3621.33 -15.66 137.72 244.04 65.98 3 24 13 3021.3 -18.78 130.42
 100.00 4 42 17 3175.31 -23.06 108.01 247.18 70.44 5 35 13 2575.3 -25.52 100.08
 100.00 2 5 11 3681.74 -8.54 138.54 240.43 61.25 3 6 33 3081.7 -12.32 131.78
 110.00 7 0 14 2743.50 -31.06 78.03 249.97 74.94 7 45 57 2143.5 -32.81 69.25
 110.00 2 3 44 3686.31 -1.40 134.50 236.05 55.84 3 5 10 3086.3 -5.87 128.27

DIFFERENTIAL CORRECTIONS

TDE-1.6186 TRA-2.6679 TC3 -.1996 BAU .1319
 RDE .0824 RRA .3437 RC3 -.1731 FAU .02523
 FDE 2.6696 FRA 3.1900 FC3 -.5852 BSP 10577
 BOE 1.6207 BRA 2.6899 BC3 .2643 FSP -1081

MID-COURSE EXECUTION ACCURACY

SGT 3233.7 SGR 430.2 SG3 370.1
 RRT -.7967 RRF .8636 RTF -.9603
 SGB 3262.2 R23 -.1548 R13 .9617
 SGI 3252.0 SG2 258.5 THA 173.91

ORBIT DETERMINATION ACCURACY

ST 1741.4 SR 134.6 SS 1748.0
 CRT -.9010 CRS -.8408 CST .9921
 LSA 2465.3 MSA 168.0 SSA 11.4
 EL1 1745.6 EL2 58.2 ALF 176.01

LAUNCH DATE NOV 16 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 370.163

RL 147.92 LAL -.00 LOL 53.70 VL 27.262 GAL 8.38 AZL 84.42 MCA 151.82 SMA 126.25 ECC .22373 INC 5.5761 V1 30.120
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.501 GAP -9.94 AZP 94.92 TAL 147.75 TAP 298.57 RCA 98.01 APO 154.50 V2 35.086
 RC 42.853 GL 25.72 GP -14.43 ZAL 43.99 ZAP 20.78 ETS 44.17 ZAE 155.33 ETE 257.97 ZAC 107.79 ETC 170.86 CLP -15.11

PLANETOCENTRIC CONIC

C3 36.476 VML 6.040 DLA 30.07 RAL 4.30 RAD 6568.4 VEL 12.564 PTH 2.28 VHP 7.168 DPA -11.81 RAP 16.92 ECC 1.6003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.42 0 32 55 3961.11 -16.70 163.19 243.12 64.62 1 38 56 3361.1 -19.98 155.92
 100.58 3 24 9 3409.05 -16.68 122.56 243.11 64.61 4 20 58 2809.1 -19.97 115.29
 79.42 0 32 55 3961.11 -16.70 163.19 243.12 64.62 1 38 56 3361.1 -19.98 155.92
 100.58 3 24 9 3409.05 -16.68 122.56 243.11 64.61 4 20 58 2809.1 -19.97 115.29
 110.00 6 33 47 2814.17 -29.70 83.09 248.69 72.24 7 20 42 2214.2 -31.84 74.53
 110.00 2 22 27 3603.98 -4.53 130.19 236.09 56.08 3 22 31 3004.0 -8.96 123.90

DIFFERENTIAL CORRECTIONS

TDE-1.6761 TRA-2.6145 TC3 -.1793 BAU .1264
 RDE .1729 RRA .3898 RC3 -.1869 FAU .02641
 FDE 2.9459 FRA 3.3225 FC3 -.6267 BSP 10804
 BOE 1.6850 BRA 2.6434 BC3 .2591 FSP -1179

MID-COURSE EXECUTION ACCURACY

SGT 3284.8 SGR 510.3 SG3 402.0
 RRT -.8570 RRF .9205 RTF -.9630
 SGB 3324.2 R23 -.1745 R13 .9649
 SGI 3314.0 SG2 260.7 THA 172.37

ORBIT DETERMINATION ACCURACY

ST 1807.7 SR 208.3 SS 1858.5
 CRT -.9853 CRS -.9578 CST .9924
 LSA 2595.6 MSA 166.7 SSA 10.2
 EL1 1819.3 EL2 35.3 ALF 173.52

LAUNCH DATE NOV 16 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 376.914

RL 147.92 LAL -0.00 LOL 53.70 VL 27.335 GAL 8.12 AZL 84.06 MCA 155.03 SMA 126.74 ECC .21753 INC 5.9442 V1 30.120
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.542 GAP -9.30 AZP 95.39 TAL 147.65 TAP 302.68 RCA 99.17 APO 154.31 V2 35.073
 RC 43.347 GL 27.83 GP -16.92 ZAL 45.15 ZAP 23.78 ETS 45.22 ZAE 153.65 ETE 264.55 ZAC 109.52 ETC 172.07 CLP -16.96

PLANETOCENTRIC CONIC

C3 36.028 VML 6.002 DLA 31.93 RAL 3.11 RAD 6568.4 VEL 12.546 PTH 2.27 VHP 6.887 DPA -13.51 RAP 19.23 ECC 1.5929
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.60 23 49 39 4067.15 -17.75 171.70 242.22 63.02 24 57 26 3467.2 -21.23 164.47
 105.40 3 53 57 3296.76 -17.73 114.65 242.21 63.01 4 48 54 2696.8 -21.21 107.43
 74.60 23 49 39 4067.15 -17.75 171.70 242.22 63.02 24 57 26 3467.2 -21.23 164.47
 105.40 3 53 57 3296.76 -17.73 114.65 242.21 63.01 4 48 54 2696.8 -21.21 107.43
 110.00 5 56 51 2916.14 -27.37 90.11 246.88 68.68 6 45 27 2316.1 -30.02 81.91
 110.00 2 49 51 3495.76 -8.61 124.47 236.78 56.79 3 48 7 2895.8 -12.92 118.02

DIFFERENTIAL CORRECTIONS

TDE -1.7496 TRA -2.5558 TC3 -.1598 BAU .1241
 RDE .2891 RRA .4512 RC3 -.2021 FAU .02733
 FDE 3.2657 FRA 3.4374 FC3 -.6568 BSP 11019
 BOE 1.7753 BRA 2.5953 BC3 .2576 FSP -1278

MID-COURSE EXECUTION ACCURACY

SGT 3330.0 SGR 626.6 SG3 434.5
 RRT -.8978 RRF .9565 RTF -.9656
 SGB 3388.5 R23 -.1903 R13 .9683
 SG1 3377.5 SG2 272.1 THA 170.35

ORBIT DETERMINATION ACCURACY

ST 1879.6 SR 315.2 SS 1979.2
 CRT -.9993 CRS -.9889 CST .9927
 LSA 2742.6 MSA 167.0 SSA 8.8
 EL1 1905.8 EL2 11.8 ALF 170.49

LAUNCH DATE NOV 16 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 383.645

RL 147.92 LAL -0.00 LOL 53.70 VL 27.403 GAL 7.87 AZL 85.59 MCA 158.24 SMA 127.19 ECC .21177 INC 6.4129 V1 30.120
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.579 GAP -8.69 AZP 95.96 TAL 147.57 TAP 305.81 RCA 100.25 APO 154.12 V2 35.060
 RC 44.011 GL 30.30 GP -20.12 ZAL 46.62 ZAP 27.31 ETS 46.88 ZAE 151.02 ETE 270.09 ZAC 111.24 ETC 173.71 CLP -18.85

PLANETOCENTRIC CONIC

C3 36.109 VML 6.009 DLA 34.05 RAL 1.60 RAD 6568.4 VEL 12.549 PTH 2.27 VHP 6.652 DPA -15.88 RAP 21.80 ECC 1.5943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.25 23 15 47 4153.77 -18.81 178.96 241.34 61.08 24 25 1 3553.8 -22.52 171.80
 109.75 4 15 46 3211.28 -18.80 108.67 241.34 61.07 5 9 17 2611.3 -22.51 101.51
 70.25 23 15 47 4153.77 -18.81 178.96 241.34 61.08 24 25 1 3553.8 -22.52 171.80
 109.75 4 15 46 3211.28 -18.80 108.67 241.34 61.07 5 9 17 2611.3 -22.51 101.51
 110.00 4 40 4 3137.19 -21.11 104.21 242.66 62.47 5 32 21 2537.2 -24.62 96.83
 110.00 3 54 35 3275.86 -16.53 112.36 239.96 59.65 4 49 11 2675.9 -20.44 105.41

DIFFERENTIAL CORRECTIONS

TDE -1.8474 TRA -2.4913 TC3 -.1412 BAU .1256
 RDE .4448 RRA .5314 RC3 -.2186 FAU .02781
 FDE 3.6309 FRA 3.5118 FC3 -.6668 BSP 11270
 BOE 1.9002 BRA 2.5473 BC3 .2603 FSP -1375

MID-COURSE EXECUTION ACCURACY

SGT 3369.1 SGR 789.2 SG3 465.0
 RRT -.9235 RRF .9772 RTF -.9679
 SGB 3460.3 R23 -.1990 R13 .9718
 SG1 3447.7 SG2 295.8 THA 167.70

ORBIT DETERMINATION ACCURACY

ST 1960.3 SR 462.1 SS 2108.2
 CRT -.9988 CRS -.9974 CST .9931
 LSA 2910.7 MSA 169.0 SSA 7.3
 EL1 2013.9 EL2 22.5 ALF 166.75

LAUNCH DATE NOV 16 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 390.356

RL 147.92 LAL -0.00 LOL 53.70 VL 27.465 GAL 7.65 AZL 82.97 MCA 161.44 SMA 127.60 ECC .20644 INC 7.0339 V1 30.120
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.612 GAP -8.09 AZP 96.67 TAL 147.52 TAP 308.96 RCA 101.26 APO 153.95 V2 35.047
 RC 44.838 GL 33.25 GP -24.33 ZAL 48.50 ZAP 31.57 ETS 49.16 ZAE 147.21 ETE 274.45 ZAC 112.93 ETC 175.97 CLP -20.77

PLANETOCENTRIC CONIC

C3 36.966 VML 6.080 DLA 36.53 RAL 359.62 RAD 6568.4 VEL 12.583 PTH 2.28 VHP 6.488 DPA -19.15 RAP 24.84 ECC 1.6084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.89 22 43 8 4234.20 -19.84 185.96 240.50 58.67 23 53 42 3634.2 -23.84 178.91
 114.11 4 32 40 3142.70 -19.82 103.87 240.49 58.66 5 25 3 2542.7 -23.82 96.82
 65.89 22 43 8 4234.20 -19.84 185.96 240.50 58.67 23 53 42 3634.2 -23.84 178.91
 114.11 4 32 40 3142.70 -19.82 103.87 240.49 58.66 5 25 3 2542.7 -23.82 96.82
 65.89 22 43 8 4234.20 -19.84 185.96 240.50 58.67 23 53 42 3634.2 -23.84 178.91
 114.11 4 32 40 3142.70 -19.82 103.87 240.49 58.66 5 25 3 2542.7 -23.82 96.82

DIFFERENTIAL CORRECTIONS

TDE -1.9860 TRA -2.4210 TC3 -.1260 BAU .1315
 RDE .6642 RRA .6337 RC3 -.2345 FAU .02734
 FDE 4.0371 FRA 3.5089 FC3 -.6403 BSP 11552
 BOE 2.0942 BRA 2.5025 BC3 .2662 FSP -1452

MID-COURSE EXECUTION ACCURACY

SGT 3404.1 SGR 1012.7 SG3 488.9
 RRT -.9393 RRF .9881 RTF -.9701
 SGB 3551.6 R23 -.1982 R13 .9757
 SG1 3535.8 SG2 334.4 THA 164.24

ORBIT DETERMINATION ACCURACY

ST 2056.3 SR 664.5 SS 2242.0
 CRT -.9963 CRS -.9996 CST .9936
 LSA 3109.1 MSA 172.8 SSA 5.8
 EL1 2160.3 EL2 54.5 ALF 162.14

LAUNCH DATE NOV 16 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 397.044

RL 147.92 LAL -0.00 LOL 53.70 VL 27.521 GAL 7.44 AZL 82.10 MCA 164.64 SMA 127.99 ECC .20153 INC 7.9026 V1 30.120
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.641 GAP -7.50 AZP 97.62 TAL 147.47 TAP 312.11 RCA 102.19 APO 153.78 V2 35.033
 RC 45.818 GL 36.87 GP -29.96 ZAL 50.99 ZAP 36.90 ETS 52.14 ZAE 141.89 ETE 277.76 ZAC 114.56 ETC 179.21 CLP -22.63

PLANETOCENTRIC CONIC

C3 39.106 VML 6.254 DLA 39.50 RAL 356.93 RAD 6568.5 VEL 12.668 PTH 2.30 VHP 6.443 DPA -23.68 RAP 28.67 ECC 1.6436
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.23 22 9 5 4316.11 -20.72 193.29 239.64 55.59 23 21 1 3716.1 -25.08 186.43
 118.77 4 45 14 3089.24 -20.70 100.08 239.63 55.58 5 36 44 2489.2 -25.06 93.22
 61.23 22 9 5 4316.11 -20.72 193.29 239.64 55.59 23 21 1 3716.1 -25.08 186.43
 118.77 4 45 14 3089.24 -20.70 100.08 239.63 55.58 5 36 44 2489.2 -25.06 93.22
 61.23 22 9 5 4316.11 -20.72 193.29 239.64 55.59 23 21 1 3716.1 -25.08 186.43
 118.77 4 45 14 3089.24 -20.70 100.08 239.63 55.58 5 36 44 2489.2 -25.06 93.22

DIFFERENTIAL CORRECTIONS

TDE -2.1979 TRA -2.3443 TC3 -.1153 BAU .1416
 RDE .9896 RRA .7571 RC3 -.2450 FAU .02523
 FDE 4.4542 FRA 3.3623 FC3 -.5585 BSP 11953
 BOE 2.4104 BRA 2.4635 BC3 .2708 FSP -1489

MID-COURSE EXECUTION ACCURACY

SGT 3438.6 SGR 1313.1 SG3 496.9
 RRT -.9488 RRF .9935 RTF -.9723
 SGB 3680.8 R23 -.1865 R13 .9803
 SG1 3660.1 SG2 389.6 THA 159.85

ORBIT DETERMINATION ACCURACY

ST 2180.0 SR 946.0 SS 2367.7
 CRT -.9945 CRS -1.0000 CST .9942
 LSA 3349.8 MSA 177.9 SSA 4.4
 EL1 2374.7 EL2 90.7 ALF 156.62

LAUNCH DATE NOV 16 1968

FLIGHT TIME 158.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 403.706

RL 147.92 LAL -.00 LOL 53.70 VL 27.573 GAL 7.25 AZL 80.79 MCA 167.83 SMA 128.34 ECC .19703 INC 9.2130 V1 30.120
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.667 GAP -6.93 AZP 99.01 TAL 147.44 TAP 315.27 RCA 103.05 APO 153.63 V2 35.020
 RC 46.944 GL 41.47 GP -37.67 ZAL 54.38 ZAP 43.79 ETS 55.96 ZAE 134.46 ETE 280.45 ZAC 115.97 ETC 184.07 CLP -24.21

PLANETOCENTRIC CONIC

C3 43.736 VHL 6.613 DLA 43.10 RAL 353.02 RAD 6568.7 VEL 12.849 PTH 2.34 VHP 6.629 DPA -29.92 RAP 33.96 ECC 1.7198
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.04 21 30 52 4406.93 -21.15 201.48 238.62 51.52 22 44 19 3806.9 -25.98 194.93
 123.96 4 52 14 3054.88 -21.13 97.46 238.61 51.52 5 43 8 2454.9 -25.96 90.91
 56.04 21 30 52 4406.93 -21.15 201.48 238.62 51.52 22 44 19 3806.9 -25.98 194.93
 123.96 4 52 14 3054.88 -21.13 97.46 238.61 51.52 5 43 8 2454.9 -25.96 90.91
 56.04 21 30 52 4406.93 -21.15 201.48 238.62 51.52 22 44 19 3806.9 -25.98 194.93
 123.96 4 52 14 3054.88 -21.13 97.46 238.61 51.52 5 43 8 2454.9 -25.96 90.91

DIFFERENTIAL CORRECTIONS

TDE-2.9620 TRA-2.2646 TC3 -.1133 BAU .1539
 RDE 1.4997 RRA .8860 RC3 -.2376 FAU .02017
 FDE 4.7989 FRA 2.9782 FC3 -.3992 BSP 12530
 BOE 2.9686 BRA 2.4317 BC3 .2632 FSP -1434

MID-COURSE EXECUTION ACCURACY

SGT 3488.5 SGR 1700.6 SG3 473.6
 RRT -.9543 RRF .9957 RTF -.9750
 SGB 3880.9 R23 -.1632 R13 .9857
 SG1 3853.5 SG2 459.8 THA 154.66

ORBIT DETERMINATION ACCURACY

ST 2361.5 SR 1337.0 SS 2457.5
 CRT -.9939 CRS -.9999 CST .9951
 LSA 3656.4 MSA 183.7 SSA 3.1
 EL1 2710.6 EL2 128.6 ALF 150.56

LAUNCH DATE NOV 16 1968

FLIGHT TIME 160.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 410.335

RL 147.92 LAL -.00 LOL 53.70 VL 27.621 GAL 7.07 AZL 78.57 MCA 171.01 SMA 128.67 ECC .19293 INC11.4324 V1 30.120
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.689 GAP -6.38 AZP 101.30 TAL 147.42 TAP 318.42 RCA 103.84 APO 153.49 V2 35.007
 RC 48.205 GL 47.48 GP -48.29 ZAL 59.20 ZAP 52.85 ETS 61.22 ZAE 124.08 ETE 283.72 ZAC 116.89 ETC 191.90 CLP -24.82

PLANETOCENTRIC CONIC

C3 54.339 VHL 7.372 DLA 47.44 RAL 346.83 RAD 6569.0 VEL 13.255 PTH 2.42 VHP 7.332 DPA -38.24 RAP 42.27 ECC 1.8943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.21 20 44 16 4518.03 -20.35 211.01 236.93 46.17 21 59 34 3918.0 -25.77 205.02
 129.79 4 49 29 3052.18 -20.34 96.47 236.92 46.17 5 40 21 2452.2 -25.75 90.48
 50.21 20 44 16 4518.03 -20.35 211.01 236.93 46.17 21 59 34 3918.0 -25.77 205.02
 129.79 4 49 29 3052.18 -20.34 96.47 236.92 46.17 5 40 21 2452.2 -25.75 90.48
 50.21 20 44 16 4518.03 -20.35 211.01 236.93 46.17 21 59 34 3918.0 -25.77 205.02
 129.79 4 49 29 3052.18 -20.34 96.47 236.92 46.17 5 40 21 2452.2 -25.75 90.48

DIFFERENTIAL CORRECTIONS

TDE-3.3067 TRA-2.1905 TC3 -.1245 BAU .1638
 RDE 2.3265 RRA .9482 RC3 -.1881 FAU .01073
 FDE 4.8730 FRA 2.2574 FC3 -.1710 BSP 13412
 BOE 4.0431 BRA 2.3869 BC3 .2255 FSP -1225

MID-COURSE EXECUTION ACCURACY

SGT 3602.1 SGR 2129.3 SG3 397.2
 RRT -.9569 RRF .9955 RTF -.9793
 SGB 4184.4 R23 -.1275 R13 .9915
 SG1 4149.8 SG2 536.9 THA 149.95

ORBIT DETERMINATION ACCURACY

ST 2678.8 SR 1837.6 SS 2449.4
 CRT -.9943 CRS -.9997 CST .9965
 LSA 4064.1 MSA 188.4 SSA 1.9
 EL1 3244.5 EL2 162.2 ALF 145.61

LAUNCH DATE NOV 16 1968

FLIGHT TIME 162.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 416.910

RL 147.92 LAL -.00 LOL 53.70 VL 27.663 GAL 6.92 AZL 73.97 MCA 174.16 SMA 128.96 ECC .18927 INC16.0267 V1 30.120
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.708 GAP -5.85 AZP 105.95 TAL 147.38 TAP 321.54 RCA 104.55 APO 153.37 V2 34.994
 RC 49.590 GL 55.28 GP -62.54 ZAL 66.30 ZAP 64.50 ETS 71.90 ZAE 109.72 ETE 292.49 ZAC 116.93 ETC 207.56 CLP -20.95

PLANETOCENTRIC CONIC

C3 85.095 VHL 9.225 DLA 51.99 RAL 336.15 RAD 6569.7 VEL 14.368 PTH 2.61 VHP 9.481 DPA -48.00 RAP 57.57 ECC 2.4004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.39 19 42 42 4669.64 -16.35 221.79 232.91 39.92 21 0 31 4069.6 -22.40 216.66
 135.61 4 25 49 3113.39 -16.33 98.12 232.89 39.92 5 17 43 2513.4 -22.39 92.99
 44.39 19 42 42 4669.64 -16.35 221.79 232.91 39.92 21 0 31 4069.6 -22.40 216.66
 135.61 4 25 49 3113.39 -16.33 98.12 232.89 39.92 5 17 43 2513.4 -22.39 92.99
 44.39 19 42 42 4669.64 -16.35 221.79 232.91 39.92 21 0 31 4069.6 -22.40 216.66
 135.61 4 25 49 3113.39 -16.33 98.12 232.89 39.92 5 17 43 2513.4 -22.39 92.99

DIFFERENTIAL CORRECTIONS

TDE-5.4162 TRA-2.1563 TC3 -.1692 BAU .2090
 RDE 3.4007 RRA .6458 RC3 -.0716 FAU .00396
 FDE 4.3978 FRA 1.2575 FC3 .0403 BSP 14314
 BOE 6.3953 BRA 2.2509 BC3 .1837 FSP -812

MID-COURSE EXECUTION ACCURACY

SGT 4018.0 SGR 2214.3 SG3 260.3
 RRT -.9532 RRF .9873 RTF -.9889
 SGB 4587.8 R23 -.0783 R13 .9968
 SG1 4549.5 SG2 591.1 THA 151.77

ORBIT DETERMINATION ACCURACY

ST 3426.8 SR 2121.3 SS 2259.1
 CRT -.9951 CRS -.9989 CST .9986
 LSA 4616.4 MSA 186.2 SSA 1.1
 EL1 4026.2 EL2 179.2 ALF 148.30

LAUNCH DATE NOV 16 1968

FLIGHT TIME 164.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 423.319

RL 147.92 LAL -.00 LOL 53.70 VL 27.702 GAL 6.81 AZL 59.24 MCA 177.18 SMA 129.23 ECC .18624 INC30.7550 V1 30.120
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.725 GAP -5.37 AZP 120.72 TAL 147.27 TAP 324.45 RCA 105.16 APO 153.30 V2 34.980
 RC 51.091 GL 62.12 GP -76.65 ZAL 76.71 ZAP 77.86 ETS 129.47 ZAE 89.57 ETE 348.81 ZAC 117.37 ETC 273.82 CLP 24.43

PLANETOCENTRIC CONIC

C3 253.228 VHL 15.913 DLA 52.07 RAL 319.06 RAD 6571.5 VEL 19.353 PTH 3.10 VHP 17.915 DPA -52.83 RAP 89.89 ECC 5.1675
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.28 18 34 12 4868.11 -5.88 229.68 224.47 38.16 19 55 20 4268.1 -12.14 225.06
 135.72 3 17 58 3310.40 -5.87 105.86 224.45 38.16 4 13 8 2710.4 -12.13 101.23
 44.28 18 34 12 4868.11 -5.88 229.68 224.47 38.16 19 55 20 4268.1 -12.14 225.06
 135.72 3 17 58 3310.40 -5.87 105.86 224.45 38.16 4 13 8 2710.4 -12.13 101.23
 44.28 18 34 12 4868.11 -5.88 229.68 224.47 38.16 19 55 20 4268.1 -12.14 225.06
 135.72 3 17 58 3310.40 -5.87 105.86 224.45 38.16 4 13 8 2710.4 -12.13 101.23

DIFFERENTIAL CORRECTIONS

TD-11.0436 TRA-1.0624 TC3 -.2507 BAU .9953
 RDE-6.6099 RRA-1.5778 RC3 -.1536 FAU-.02572
 FDE 3.6333 FRA .4141 FC3 .0879 BSP 15339
 BOE12.8706 BRA 1.9022 BC3 .2940 FSP -388

MID-COURSE EXECUTION ACCURACY

SGT 4103.0 SGR 2599.5 SG3 117.5
 RRT .9778 RRF -.9831 RTF -.9996
 SGB 4857.1 R23 .0326 R13 -.9994
 SG1 4835.1 SG2 462.6 THA 32.11

ORBIT DETERMINATION ACCURACY

ST 3980.7 SR 2396.1 SS 2028.1
 CRT .9976 CRS .9982 CST 1.0000
 LSA 5067.5 MSA 142.9 SSA .9
 EL1 4644.1 EL2 141.7 ALF 31.02

LAUNCH DATE NOV 16 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 431.243

RL 147.92 LAL -.00 LOL 53.70 VL 27.737 GAL 6.44 AZL 148.84 MCA 181.48 SMA 129.48 ECC .18066 INC58.8417 V1 30.120
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.738 GAP -4.53 AZP 31.17 TAL 148.04 TAP 329.53 RCA 106.08 APO 152.87 V2 34.967
 RC 52.697 GL -55.46 GP 62.09 ZAL 83.01 ZAP 85.09 ETS 193.62 ZAE 80.34 ETE 331.83 ZAC 94.78 ETC 47.52 CLP 79.48

PLANETOCENTRIC CONIC

C3 819.911 VHL 28.634 OLA -57.90 RAL 12.72 RAD 6572.8 VEL 30.679 PTH 3.46 VHP 37.582 DPA 73.73 RAP 192.86 ECC14.4937
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.13 9 49 52 2372.93 .21 69.65 282.57 147.90 10 29 25 1772.9 6.98 65.80
 142.87 19 10 24 729.11 .22 296.03 282.59 147.90 19 22 33 129.1 6.99 292.17
 37.13 9 49 52 2372.93 .21 69.65 282.57 147.90 10 29 25 1772.9 6.98 65.80
 142.87 19 10 24 729.11 .22 296.03 282.59 147.90 19 22 33 129.1 6.99 292.17
 37.13 9 49 52 2372.93 .21 69.65 282.57 147.90 10 29 25 1772.9 6.98 65.80
 142.87 19 10 24 729.11 .22 296.03 282.59 147.90 19 22 33 129.1 6.99 292.17

DIFFERENTIAL CORRECTIONS

TDE 4.6798 TRA-4.8564 TC3 -.1768 BAU 3.7140
 RDE -1.8957 RRA 9.3140 RC3 .2890 FAU -.06588
 FDE -.7639 FRA 2.1969 FC3 .0696 BSP 13261
 BOE 5.0492 BRA10.5041 BC3 .3388 FSP -243

MID-COURSE EXECUTION ACCURACY

SGT 2290.3 SGR 3896.3 SG3 80.4
 RRT -.9462 RRF .9977 RTF -.9659
 SGB 4519.6 R23 -.0146 R13 .9999
 SG1 4473.3 SG2 645.7 THA 119.76

ORBIT DETERMINATION ACCURACY

ST 1085.7 SR 1119.4 SS 947.1
 CRT -.7883 CRS -.9789 CST .8830
 LSA 1742.9 MSA 539.8 SSA .5
 EL1 1466.5 EL2 530.4 ALF 133.86

LAUNCH DATE NOV 16 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 437.130

RL 147.92 LAL -.00 LOL 53.70 VL 27.768 GAL 6.45 AZL 105.44 MCA 184.10 SMA 129.69 ECC .17920 INC15.4354 V1 30.120
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.749 GAP -4.19 AZP 74.60 TAL 147.65 TAP 331.76 RCA 106.45 APO 152.94 V2 34.954
 RC 54.398 GL -55.97 GP 75.66 ZAL 66.79 ZAP 76.07 ETS 294.27 ZAE 107.18 ETE 65.40 ZAC 86.67 ETC 140.17 CLP 13.66

PLANETOCENTRIC CONIC

C3 78.518 VHL 8.861 OLA -46.68 RAL 36.22 RAD 6569.5 VEL 14.137 PTH 2.58 VHP 12.402 DPA 70.59 RAP 314.71 ECC 2.2922
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.20 12 6 36 1953.68 15.92 45.15 290.59 134.49 12 39 10 1353.7 21.44 39.45
 128.80 20 1 10 5792.74 15.94 270.17 290.61 134.48 21 37 42 5192.7 21.45 264.46
 51.20 12 6 36 1953.68 15.92 45.15 290.59 134.49 12 39 10 1353.7 21.44 39.45
 128.80 20 1 10 5792.74 15.94 270.17 290.61 134.48 21 37 42 5192.7 21.45 264.46
 51.20 12 6 36 1953.68 15.92 45.15 290.59 134.49 12 39 10 1353.7 21.44 39.45
 128.80 20 1 10 5792.74 15.94 270.17 290.61 134.48 21 37 42 5192.7 21.45 264.46

DIFFERENTIAL CORRECTIONS

TDE -1.7348 TRA-4.0109 TC3 -.1435 BAU .1684
 RDE -.2997 RRA-3.3194 RC3 .0716 FAU .00037
 FDE .5788 FRA 2.2067 FC3 -.0040 BSP 16211
 BOE 1.7605 BRA 5.2063 BC3 .1604 FSP -598

MID-COURSE EXECUTION ACCURACY

SGT 3951.5 SGR 3137.2 SG3 182.6
 RRT -.9690 RRF -.9926 RTF -.9916
 SGB 5045.4 R23 -.0327 R13 -.9993
 SG1 5008.3 SG2 611.4 THA 38.25

ORBIT DETERMINATION ACCURACY

ST 1595.2 SR 958.4 SS 779.6
 CRT -.8384 CRS .9439 CST .9714
 LSA 1962.7 MSA 467.6 SSA 1.0
 EL1 1802.6 EL2 462.2 ALF 28.81

LAUNCH DATE NOV 16 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 443.567

RL 147.92 LAL -.00 LOL 53.70 VL 27.796 GAL 6.36 AZL 97.29 MCA 187.20 SMA 129.89 ECC .17699 INC 7.2867 V1 30.120
 RP 108.45 LAP .91 LOP 240.85 VP 37.758 GAP -3.72 AZP 82.77 TAL 147.59 TAP 334.79 RCA 106.90 APO 152.88 V2 34.942
 RC 56.186 GL -38.56 GP 63.64 ZAL 52.07 ZAP 69.59 ETS 315.45 ZAE 120.61 ETE 80.78 ZAC 88.65 ETC 153.72 CLP -38.25

PLANETOCENTRIC CONIC

C3 31.592 VHL 5.621 OLA -29.25 RAL 30.29 RAD 6568.3 VEL 12.368 PTH 2.23 VHP 7.663 DPA 59.77 RAP 336.30 ECC 1.5199
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.35 14 37 7 1208.81 17.27 346.48 266.54 113.98 14 57 16 608.8 20.37 339.10
 97.65 16 43 22 800.80 17.29 316.55 266.55 113.97 16 56 42 200.8 20.38 309.17
 100.00 16 9 30 909.39 12.65 322.28 264.25 117.31 16 24 40 309.4 16.21 315.30
 100.00 17 53 40 5863.49 22.03 279.84 268.62 110.74 19 31 23 5263.5 24.65 272.02
 110.00 15 52 22 963.35 4.41 321.42 259.32 123.93 16 8 25 363.4 8.83 315.13
 110.00 20 27 18 5382.29 31.15 246.60 271.89 104.85 21 57 0 4782.3 32.87 237.81

DIFFERENTIAL CORRECTIONS

TDE -.9465 TRA-2.2599 TC3 -.0532 BAU .2306
 RDE -.5972 RRA-3.3300 RC3 .5434 FAU .02135
 FDE .8315 FRA 3.5941 FC3 -.5850 BSP 15669
 BOE 1.1191 BRA 4.0244 BC3 .5460 FSP -1204

MID-COURSE EXECUTION ACCURACY

SGT 2811.7 SGR 3984.9 SG3 374.5
 RRT -.9660 RRF -.9991 RTF -.9737
 SGB 4877.0 R23 -.0525 R13 -.9982
 SG1 4840.1 SG2 598.9 THA 55.11

ORBIT DETERMINATION ACCURACY

ST 1248.3 SR 1316.5 SS 1005.3
 CRT .9199 CRS .9938 CST .9578
 LSA 2041.1 MSA 368.9 SSA 2.8
 EL1 1777.6 EL2 362.5 ALF 46.65

LAUNCH DATE NOV 16 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 450.051

RL 147.92 LAL -.00 LOL 53.70 VL 27.820 GAL 6.28 AZL 94.05 MCA 190.35 SMA 130.06 ECC .17497 INC 4.0528 V1 30.120
 RP 108.49 LAP .73 LOP 244.03 VP 37.764 GAP -3.24 AZP 86.01 TAL 147.56 TAP 337.91 RCA 107.31 APO 152.82 V2 34.929
 RC 58.051 GL -24.67 GP 54.56 ZAL 43.10 ZAP 66.42 ETS 325.00 ZAE 129.63 ETE 84.93 ZAC 90.72 ETC 156.64 CLP -46.38

PLANETOCENTRIC CONIC

C3 21.931 VHL 4.683 OLA -16.03 RAL 25.39 RAD 6567.9 VEL 11.971 PTH 2.13 VHP 5.883 DPA 51.69 RAP 344.96 ECC 1.3609
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 11 30 14 1713.48 -5.10 11.83 247.15 117.89 11 58 47 1113.5 -1.33 5.18
 90.00 19 11 9 5403.56 28.02 247.83 254.11 85.72 20 41 12 4803.6 27.13 239.28
 100.00 12 42 39 1479.80 -6.32 353.99 246.49 119.28 13 7 19 879.8 -2.37 347.43
 100.00 20 41 24 5112.47 29.40 226.28 253.97 84.34 22 6 37 4512.5 28.30 217.65
 110.00 13 31 6 1328.02 -9.44 340.58 244.59 123.01 13 53 14 728.0 -5.02 334.26
 110.00 22 9 27 4837.02 33.01 204.80 253.41 80.58 23 30 4 4237.0 31.36 195.97

DIFFERENTIAL CORRECTIONS

TDE -.7093 TRA-1.7250 TC3 -.0602 BAU .2541
 RDE -.6658 RRA-2.9778 RC3 .8646 FAU .03948
 FDE 1.3626 FRA 5.1277 FC3 -1.5585 BSP 14808
 BOE .9729 BRA 3.4414 BC3 .8666 FSP -1885

MID-COURSE EXECUTION ACCURACY

SGT 2361.8 SGR 3960.9 SG3 595.6
 RRT -.9605 RRF -.9993 RTF -.9642
 SGB 4611.6 R23 -.0566 R13 -.9978
 SG1 4576.4 SG2 569.0 THA 59.68

ORBIT DETERMINATION ACCURACY

ST 1089.5 SR 1399.1 SS 1307.3
 CRT .9552 CRS .9965 CST .9765
 LSA 2187.8 MSA 258.9 SSA 5.1
 EL1 1754.5 EL2 257.1 ALF 52.41

LAUNCH DATE NOV 16 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

RL 147.92 LAL -0.00 LOL 53.70 VL 27.842 GAL 6.22 AZL 92.32 MCA 193.52 SMA 130.22 ECC .17320 INC 2.3204 V1 30.120
 RP 108.53 LAP .54 LOP 247.21 VP 37.769 GAP -2.77 AZP 87.74 TAL 147.53 TAP 341.05 RCA 107.66 APO 152.77 V2 34.917
 RC 59.985 GL -14.98 GP 47.95 ZAL 38.61 ZAP 65.77 ETS 332.37 ZAE 136.02 ETE 88.18 ZAC 92.01 ETC 158.34 CLP -52.22

PLANETOCENTRIC CONIC

C3 18.801 VHL 4.336 DLA -6.91 RAL 22.02 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 4.964 OPA 45.48 RAP 349.19 ECC 1.3094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 0 6 1983.93 -13.39 27.38 241.23 115.19 10 33 9 1383.9 -9.88 20.45
 90.00 20 14 25 5059.60 23.88 223.58 244.29 74.32 21 38 45 4459.6 21.50 215.72
 100.00 11 18 8 1732.17 -14.40 8.36 240.73 116.48 11 47 0 1132.2 -10.73 1.50
 100.00 21 39 4 4786.60 24.97 203.16 243.94 73.00 22 58 51 4186.6 22.40 195.30
 110.00 12 18 50 1542.12 -17.09 352.44 239.22 120.06 12 44 32 942.1 -12.97 345.75
 110.00 22 54 51 4549.41 27.86 184.05 242.84 69.34 24 10 41 3949.4 24.79 176.22

DIFFERENTIAL CORRECTIONS

TOE -.5892 TRA-1.3736 TC3 -.1154 BAU .2525
 ROE -.7283 RRA-2.7135 RC3 .9979 FAU .05546
 FOE 2.0686 FRA 6.5824 FC3-2.5539 BSP 13892
 BOE .9368 BRA 3.0414 BC3 1.0045 FSP -2559

MID-COURSE EXECUTION ACCURACY

SGT 1989.8 SGR 3836.7 SG3 815.7
 RRT .9518 RRF -.9991 RTF -.9542
 SGB 4322.0 R23 -.0536 R13 -.9977
 SG1 4287.4 SG2 546.0 THA 63.26

ORBIT DETERMINATION ACCURACY

ST 952.4 SR 1449.4 SS 1626.6
 CRT .9733 CRS .9969 CST .9882
 LSA 2370.6 MSA 184.2 SSA 7.9
 EL1 1724.6 EL2 183.9 ALF 56.98

LAUNCH DATE NOV 16 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

RL 147.92 LAL -0.00 LOL 53.70 VL 27.860 GAL 6.16 AZL 91.24 MCA 196.69 SMA 130.35 ECC .17172 INC 1.2378 V1 30.120
 RP 108.57 LAP .36 LOP 250.39 VP 37.772 GAP -2.30 AZP 88.81 TAL 147.49 TAP 344.18 RCA 107.96 APO 152.73 V2 34.906
 RC 61.981 GL -8.21 GP 43.01 ZAL 36.60 ZAP 66.94 ETS 338.56 ZAE 140.65 ETE 92.05 ZAC 92.52 ETC 159.79 CLP -57.61

PLANETOCENTRIC CONIC

C3 17.550 VHL 4.189 DLA -.57 RAL 19.64 RAD 6567.7 VEL 11.787 PTH 2.08 VHP 4.400 OPA 40.53 RAP 351.25 ECC 1.2888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 2 57 2166.05 -18.36 38.43 238.72 111.94 9 39 4 1566.1 -15.22 31.16
 90.00 20 52 34 4845.32 19.24 209.60 238.97 68.82 22 13 19 4245.3 16.19 202.25
 100.00 10 24 2 1904.52 -19.35 18.76 238.29 113.24 10 55 47 1304.5 -16.04 11.54
 100.00 22 14 10 4582.09 20.24 189.81 238.55 67.52 23 30 32 3982.1 17.02 182.50
 110.00 11 31 40 1692.80 -21.99 1.37 236.97 116.85 11 59 53 1092.8 -18.21 354.28
 110.00 23 23 1 4566.57 22.90 172.16 237.26 63.90 24 35 48 3766.6 19.20 164.98

DIFFERENTIAL CORRECTIONS

TOE -.4866 TRA-1.0623 TC3 -.2022 BAU .2472
 ROE -.7729 RRA-2.5133 RC3 1.0338 FAU .06950
 FOE 2.8559 FRA 7.9138 FC3-3.4286 BSP 12955
 BOE .9134 BRA 2.7286 BC3 1.0534 FSP -3200

MID-COURSE EXECUTION ACCURACY

SGT 1607.1 SGR 3699.2 SG3 1024.7
 RRT .9358 RRF -.9989 RTF -.9359
 SGB 4033.2 R23 -.0461 R13 -.9979
 SG1 3998.0 SG2 532.1 THA 67.50

ORBIT DETERMINATION ACCURACY

ST 795.6 SR 1477.0 SS 1931.3
 CRT .9811 CRS .9968 CST .9933
 LSA 2554.2 MSA 143.2 SSA 11.0
 EL1 1672.2 EL2 135.9 ALF 61.94

LAUNCH DATE NOV 16 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

RL 147.92 LAL -0.00 LOL 53.70 VL 27.876 GAL 6.12 AZL 90.49 MCA 199.86 SMA 130.46 ECC .17051 INC .4937 V1 30.120
 RP 108.60 LAP .17 LOP 253.57 VP 37.773 GAP -1.84 AZP 89.54 TAL 147.44 TAP 347.30 RCA 108.22 APO 152.70 V2 34.894
 RC 64.032 GL -3.32 GP 39.18 ZAL 35.81 ZAP 69.39 ETS 343.87 ZAE 144.01 ETE 96.96 ZAC 92.37 ETC 161.17 CLP -63.00

PLANETOCENTRIC CONIC

C3 17.011 VHL 4.124 DLA 4.00 RAL 17.89 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 4.017 OPA 36.40 RAP 352.02 ECC 1.2800
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 21 59 2300.74 -21.56 47.01 237.60 108.81 9 0 20 1700.7 -18.80 39.43
 90.00 21 19 33 4696.20 15.33 200.41 235.92 65.89 22 37 49 4096.2 11.94 193.36
 100.00 9 45 12 2032.33 -22.57 26.89 237.21 110.13 10 19 5 1432.3 -19.63 19.33
 100.00 22 39 1 4439.84 16.30 181.09 235.45 64.59 23 53 1 3839.8 12.74 174.10
 110.00 10 57 45 1805.28 -25.27 8.46 236.02 113.82 11 27 50 1205.3 -21.84 .99
 110.00 23 42 58 4239.66 18.89 164.50 234.06 60.97 24 53 37 3639.7 14.87 157.68

DIFFERENTIAL CORRECTIONS

TOE -.3713 TRA -.7517 TC3 -.3071 BAU .2445
 ROE -.7979 RRA-2.3500 RC3 1.0304 FAU .08218
 FOE 3.6607 FRA 9.1061 FC3-4.1825 BSP 12087
 BOE .8800 BRA 2.4673 BC3 1.0752 FSP -3816

MID-COURSE EXECUTION ACCURACY

SGT 1194.2 SGR 3558.2 SG3 1217.5
 RRT .8901 RRF -.9986 RTF -.8928
 SGB 3753.2 R23 -.0340 R13 -.9980
 SG1 3716.9 SG2 521.0 THA 73.02

ORBIT DETERMINATION ACCURACY

ST 603.9 SR 1480.9 SS 2204.4
 CRT .9838 CRS .9966 CST .9950
 LSA 2720.6 MSA 124.4 SSA 13.3
 EL1 1596.1 EL2 100.6 ALF 68.05

LAUNCH DATE NOV 16 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

RL 147.92 LAL -0.00 LOL 53.70 VL 27.889 GAL 6.09 AZL 89.95 MCA 203.04 SMA 130.55 ECC .16957 INC .0528 V1 30.120
 RP 108.64 LAP -.02 LOP 256.74 VP 37.772 GAP -1.39 AZP 90.05 TAL 147.37 TAP 350.41 RCA 108.42 APO 152.69 V2 34.883
 RC 66.131 GL .36 GP 36.08 ZAL 35.60 ZAP 72.79 ETS 348.45 ZAE 146.36 ETE 103.01 ZAC 91.67 ETC 162.51 CLP -68.52

PLANETOCENTRIC CONIC

C3 16.798 VHL 4.099 DLA 7.43 RAL 16.56 RAD 6567.7 VEL 11.755 PTH 2.07 VHP 3.742 OPA 32.78 RAP 351.97 ECC 1.2765
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 50 34 2405.90 -23.70 53.98 237.13 105.96 8 30 40 1805.9 -21.29 46.14
 90.00 21 40 20 4585.24 12.14 193.82 234.08 64.22 22 56 45 3985.2 8.57 186.96
 100.00 9 15 29 2132.05 -24.75 33.49 236.78 107.31 9 51 1 1532.0 -22.15 25.66
 100.00 22 58 7 4334.32 13.12 174.87 233.58 62.80 24 10 21 3734.3 9.38 168.07
 110.00 10 31 52 1892.99 -27.56 14.25 235.69 111.08 11 3 25 1293.0 -24.44 6.47
 110.00 0 2 9 4146.15 15.71 159.11 232.10 59.25 1 11 15 3546.1 11.52 152.52

DIFFERENTIAL CORRECTIONS

TOE -.2363 TRA -.4317 TC3 -.4311 BAU .2456
 ROE -.8072 RRA-2.2083 RC3 1.0050 FAU .09322
 FOE 4.4508 FRA10.1533 FC3-4.8043 BSP 11237
 BOE .8411 BRA 2.2501 BC3 1.0936 FSP -4385

MID-COURSE EXECUTION ACCURACY

SGT 777.5 SGR 3412.4 SG3 1390.8
 RRT .7450 RRF -.9982 RTF -.7492
 SGB 3499.8 R23 -.0173 R13 -.9981
 SG1 3462.3 SG2 511.1 THA 80.15

ORBIT DETERMINATION ACCURACY

ST 377.6 SR 1465.0 SS 2444.7
 CRT .9817 CRS .9962 CST .9941
 LSA 2872.4 MSA 119.0 SSA 14.5
 EL1 1511.3 EL2 69.8 ALF 75.77

LAUNCH DATE NOV 16 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 482.288

RL 147.92 LAL -.00 LOL 53.70 VL 27.900 GAL 6.07 AZL 89.53 MCA 206.21 SMA 130.63 ECC .16890 INC .4726 V1 30.120
 RP 108.67 LAP -.21 LOP 259.91 VP 37.770 GAP -.94 AZP 90.42 TAL 147.28 TAP 353.49 RCA 108.57 APO 152.69 V2 34.873
 RC 68.274 GL 3.20 GP 33.47 ZAL 35.65 ZAP 76.87 ETS 352.43 ZAE 147.81 ETE 110.07 ZAC 90.54 ETC 163.79 CLP -74.20

PLANETOCENTRIC CONIC

C3 16.762 VHL 4.094 DLA 10.09 RAL 15.52 RAD 6567.7 VEL 11.754 PTH 2.07 VHP 3.542 DPA 29.50 RAP 351.35 ECC 1.2759
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 25 25 2491.34 -25.18 59.80 237.00 103.40 8 6 56 1891.3 -23.09 51.76
 90.00 21 57 15 4498.80 9.53 188.81 232.95 63.21 23 12 14 3898.8 5.86 182.05
 100.00 8 51 45 2212.90 -26.28 39.02 236.69 104.79 9 28 38 1612.9 -23.99 30.96
 100.00 23 13 36 4252.43 10.53 170.17 232.42 61.86 24 24 29 3652.4 6.69 163.49
 110.00 10 11 20 1963.86 -29.20 19.12 235.70 108.62 10 44 4 1363.9 -26.38 11.07
 110.00 0 14 26 4074.28 13.17 155.09 230.86 58.17 1 22 21 3474.3 8.87 148.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.0799 TRA -.1002 TC3 -.5698 BAU .2517 SGT 500.5 SGR 3254.0 SG3 1539.2 ST 120.5 SR 1428.5 SS 2647.5
 RDE -.8011 RRA-2.0755 RC3 .9680 FAU .10265 RRT .1080 RRF -.9977 RTF -.1144 CRT .9459 CRS .9956 CST .9696
 FDE 5.1882 FRA11.0299 FC3-5.3019 B9P 10471 SGB 3292.3 R23 .0041 R13 -.9977 LSA 3008.3 MSA 120.7 SSA 14.9
 BOE .8051 BRA 2.0779 BC3 1.1233 FSP -4899 SG1 3254.5 SG2 497.5 THA 89.03 EL1 1433.1 EL2 39.0 ALF 85.43

LAUNCH DATE NOV 16 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 488.673

RL 147.92 LAL -.00 LOL 53.70 VL 27.909 GAL 6.07 AZL 89.19 MCA 209.38 SMA 130.69 ECC .16849 INC .8065 V1 30.120
 RP 108.70 LAP -.40 LOP 263.08 VP 37.767 GAP -.50 AZP 90.70 TAL 147.17 TAP 356.55 RCA 108.67 APO 152.71 V2 34.862
 RC 70.456 GL 5.47 GP 31.17 ZAL 35.81 ZAP 81.46 ETS 355.89 ZAE 148.41 ETE 117.81 ZAC 89.08 ETC 164.99 CLP -80.01

PLANETOCENTRIC CONIC

C3 16.837 VHL 4.103 DLA 12.21 RAL 14.71 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 3.397 DPA 26.43 RAP 350.34 ECC 1.2771
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 39 2562.96 -26.22 64.79 237.08 101.11 7 47 22 1963.0 -24.42 56.58
 90.00 22 11 33 4429.24 7.37 184.84 232.28 62.58 23 25 22 3829.2 3.64 178.15
 100.00 8 32 14 2280.49 -27.37 43.74 236.81 102.52 9 10 15 1680.5 -25.37 35.51
 100.00 23 26 39 4186.95 8.41 166.47 231.72 61.21 24 36 26 3586.9 4.50 159.86
 110.00 9 54 34 2022.85 -30.41 23.28 235.92 106.43 10 28 17 1422.8 -27.86 15.02
 110.00 0 24 44 4017.36 11.11 151.97 230.09 57.46 1 31 42 3417.4 6.74 145.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .0968 TRA .2407 TC3 -.7196 BAU .2628 SGT 696.7 SGR 3079.1 SG3 1657.6 ST 171.0 SR 1372.7 SS 2812.4
 RDE -.7809 RRA-1.9451 RC3 .9194 FAU .10991 RRT -.7220 RRF -.9970 RTF .7180 CRT -.9962 CRS .9949 CST -.9910
 FDE 5.8432 FRA11.7128 FC3-5.6513 B9P 9844 SGB 3156.9 R23 .0281 R13 -.9966 LSA 3131.6 MSA 125.5 SSA 14.8
 BOE .7868 BRA 1.9600 BC3 1.1676 FSP -5329 SG1 3120.9 SG2 475.6 THA 99.50 EL1 1383.3 EL2 14.8 ALF 97.07

LAUNCH DATE NOV 16 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 495.037

RL 147.92 LAL -.00 LOL 53.70 VL 27.915 GAL 6.09 AZL 88.92 MCA 212.55 SMA 130.74 ECC .16834 INC 1.0813 V1 30.120
 RP 108.73 LAP -.58 LOP 266.25 VP 37.763 GAP -.06 AZP 90.91 TAL 147.03 TAP 359.58 RCA 108.73 APO 152.75 V2 34.853
 RC 72.672 GL 7.30 GP 29.07 ZAL 35.99 ZAP 86.40 ETS 358.91 ZAE 148.22 ETE 125.77 ZAC 87.39 ETC 166.08 CLP -85.88

PLANETOCENTRIC CONIC

C3 16.995 VHL 4.122 DLA 13.94 RAL 14.08 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 3.300 DPA 23.50 RAP 349.10 ECC 1.2797
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 9 2624.53 -26.95 69.15 237.31 99.04 7 30 53 2024.5 -25.42 60.81
 90.00 22 24 0 4371.97 5.56 181.60 231.92 62.19 23 36 52 3772.0 1.80 174.94
 100.00 8 15 52 2338.42 -28.15 47.87 237.08 100.49 8 54 50 1738.4 -26.42 39.50
 100.00 23 37 58 4133.31 6.63 163.47 231.33 60.79 24 46 51 3533.3 2.69 156.90
 110.00 9 40 38 2073.15 -31.32 26.92 236.27 104.45 10 15 11 1473.2 -29.02 18.47
 110.00 0 33 37 3971.34 9.41 149.49 229.64 56.99 1 39 48 3371.3 5.00 143.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .2898 TRA .5859 TC3 -.8760 BAU .2791 SGT 1178.1 SGR 2886.4 SG3 1741.5 ST 475.4 SR 1298.9 SS 2938.5
 RDE -.7475 RRA-1.8140 RC3 .8612 FAU .11467 RRT -.9148 RRF -.9961 RTF .9134 CRT -.9960 CRS .9939 CST -.9992
 FDE 6.3879 FRA12.1808 FC3-5.8415 B9P 9442 SGB 3117.6 R23 .0496 R13 -.9949 LSA 3245.0 MSA 131.7 SSA 14.6
 BOE .8017 BRA 1.9063 BC3 1.2285 FSP -5652 SG1 3085.7 SG2 445.1 THA 110.93 EL1 1382.6 EL2 40.1 ALF 110.05

LAUNCH DATE NOV 16 1968

FLIGHT TIME 188.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 501.378

RL 147.92 LAL -.00 LOL 53.70 VL 27.919 GAL 6.12 AZL 88.69 MCA 215.72 SMA 130.77 ECC .16845 INC 1.3118 V1 30.120
 RP 108.76 LAP -.77 LOP 269.42 VP 37.758 GAP .37 AZP 91.07 TAL 146.86 TAP 2.59 RCA 108.74 APO 152.80 V2 34.844
 RC 74.919 GL 8.81 GP 27.10 ZAL 36.16 ZAP 91.55 ETS 1.52 ZAE 147.32 ETE 133.45 ZAC 85.57 ETC 167.00 CLP -91.74

PLANETOCENTRIC CONIC

C3 17.219 VHL 4.150 DLA 15.38 RAL 13.59 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 3.242 DPA 20.68 RAP 347.74 ECC 1.2834
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 10 2678.51 -27.47 73.01 237.65 97.17 7 16 49 2078.5 -26.19 64.58
 90.00 22 35 3 4324.05 4.03 178.91 231.80 61.95 23 47 7 3724.0 .25 172.27
 100.00 8 1 55 2389.06 -28.73 51.52 237.45 98.65 8 41 44 1789.1 -27.23 43.04
 100.00 23 47 59 4088.73 5.15 161.00 231.18 60.51 24 56 8 3488.7 1.18 154.45
 110.00 9 28 54 2116.94 -32.02 30.14 236.73 102.67 10 4 11 1516.9 -29.94 21.54
 110.00 0 41 26 3933.62 8.01 147.47 229.43 56.66 1 46 59 3333.6 3.56 141.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .4949 TRA .9294 TC3-1.0311 BAU .3004 SGT 1723.6 SGR 2675.4 SG3 1786.0 ST 791.9 SR 1206.3 SS 3018.6
 RDE -.7001 RRA-1.6793 RC3 .7997 FAU .11739 RRT -.9605 RRF -.9950 RTF .9609 CRT -.9936 CRS .9924 CST -.9998
 FDE 6.7813 FRA12.4070 FC3-5.9019 B9P 9400 SGB 3182.5 R23 .0621 R13 -.9932 LSA 3342.9 MSA 138.3 SSA 14.2
 BOE .8574 BRA 1.9193 BC3 1.3049 FSP -5885 SG1 3156.5 SG2 406.5 THA 122.35 EL1 1441.1 EL2 75.0 ALF 123.21

LAUNCH DATE NOV 16 1968

FLIGHT TIME 190.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 507.695

RL 147.92 LAL -.00 LOL 53.70 VL 27.922 GAL 6.16 AZL 88.49 MCA 218.89 SMA 130.79 ECC .16880 INC 1.5094 V1 30.120
 RP 108.78 LAP -.95 LOP 272.59 VP 37.752 GAP .80 AZP 91.17 TAL 146.67 TAP 5.56 RCA 108.71 APO 152.87 V2 34.835
 RC 77.194 GL 10.06 GP 25.24 ZAL 36.31 ZAP 96.79 ETS 3.77 ZAE 145.84 ETE 140.46 ZAC 83.72 ETC 167.76 CLP -97.51

PLANETOCENTRIC CONIC

C3 17.506 VHL 4.184 OLA 16.59 RAL 13.22 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 3.221 DPA 18.00 RAP 346.36 ECC 1.2881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 13 2726.64 -27.83 76.49 238.08 95.46 7 4 40 2126.6 -26.78 67.98
 90.00 22 45 2 4283.55 2.73 176.64 231.86 61.80 23 56 26 3683.5 -1.06 170.01
 100.00 7 49 57 2434.08 -29.14 54.81 237.91 96.97 8 30 31 1834.1 -27.87 46.23
 100.00 0 0 56 4051.34 3.89 158.93 231.22 60.34 1 8 27 3451.3 -.09 152.40
 110.00 9 18 55 2155.70 -32.56 33.03 237.28 101.03 9 54 51 1555.7 -30.70 24.31
 110.00 0 48 27 3902.49 6.84 145.82 229.40 56.43 1 53 29 3302.5 2.38 139.57

DIFFERENTIAL CORRECTIONS

TOE .7061 TRA 1.2651 TC3-1.1806 BAU .3254
 RDE -.6419 RRA-1.5439 RC3 .7347 FAU .11779
 FDE 7.0177 FRA12.4044 FC3-5.8251 BSP 9721
 BOE .9543 BRA 1.9960 BC3 1.3906 FSP -6006

MID-COURSE EXECUTION ACCURACY

SGT 2275.6 SGR 2453.0 SG3 1792.2
 RRT -.9754 RRF -.9934 RTF .9776
 SGB 3346.0 R23 .0626 R13 -.9922
 SG1 3325.5 SG2 369.7 THA 132.80

ORBIT DETERMINATION ACCURACY

ST 1109.0 SR 1100.5 SS 3056.8
 CRT -.9910 CRS .9902 CST -.9999
 LSA 3429.9 MSA 145.0 SSA 13.9
 EL1 1558.8 EL2 105.0 ALF 135.22

LAUNCH DATE NOV 16 1968

FLIGHT TIME 192.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 513.989

RL 147.92 LAL -.00 LOL 53.70 VL 27.923 GAL 6.22 AZL 88.32 MCA 222.06 SMA 130.79 ECC .16941 INC 1.6813 V1 30.120
 RP 108.81 LAP -1.13 LOP 273.75 VP 37.745 GAP 1.23 AZP 91.25 TAL 146.45 TAP 8.51 RCA 108.64 APO 152.95 V2 34.827
 RC 79.493 GL 11.11 GP 23.46 ZAL 36.41 ZAP 102.01 ETS 5.69 ZAE 143.93 ETE 146.58 ZAC 81.94 ETC 168.32 CLP -103.12

PLANETOCENTRIC CONIC

C3 17.851 VHL 4.225 OLA 17.62 RAL 12.95 RAD 6567.7 VEL 11.800 PTH 2.09 VHP 3.232 DPA 15.45 RAP 345.04 ECC 1.2938
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 58 2770.13 -28.07 79.65 238.59 93.90 6 54 8 2170.1 -27.23 71.08
 90.00 22 54 10 4249.12 1.62 174.72 232.09 61.73 24 4 59 3649.1 -2.17 168.09
 100.00 7 39 35 2474.65 -29.44 57.79 238.47 95.43 8 20 50 1874.7 -28.38 49.14
 100.00 0 9 9 4019.85 2.83 157.20 231.42 60.23 1 16 9 3419.8 -1.16 150.68
 110.00 9 10 24 2190.51 -32.98 35.66 237.92 99.53 9 46 55 1590.5 -31.32 26.83
 110.00 0 54 50 3876.75 5.87 144.46 229.53 56.26 1 59 26 3276.7 1.39 138.23

DIFFERENTIAL CORRECTIONS

TOE .9188 TRA 1.5886 TC3-1.3192 BAU .3527
 RDE -.5770 RRA-1.4115 RC3 .6667 FAU .11569
 FDE 7.1076 FRA12.2037 FC3-5.6108 BSP 10351
 BOE 1.0849 BRA 2.1251 BC3 1.4781 FSP -6004

MID-COURSE EXECUTION ACCURACY

SGT 2811.4 SGR 2227.8 SG3 1764.1
 RRT -.9807 RRF -.9912 RTF .9850
 SGB 3587.1 R23 .0540 R13 -.9919
 SG1 3570.7 SG2 342.9 THA 141.73

ORBIT DETERMINATION ACCURACY

ST 1419.0 SR 987.7 SS 3060.0
 CRT -.9876 CRS .9871 CST -.9999
 LSA 3511.4 MSA 151.4 SSA 13.6
 EL1 1724.1 EL2 127.8 ALF 145.28

LAUNCH DATE NOV 16 1968

FLIGHT TIME 194.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 520.259

RL 147.92 LAL -.00 LOL 53.70 VL 27.922 GAL 6.30 AZL 88.17 MCA 225.23 SMA 130.79 ECC .17027 INC 1.8334 V1 30.120
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.738 GAP 1.66 AZP 91.29 TAL 146.20 TAP 11.42 RCA 108.52 APO 153.06 V2 34.820
 RC 81.813 GL 11.99 GP 21.77 ZAL 36.46 ZAP 107.12 ETS 7.32 ZAE 141.75 ETE 151.77 ZAC 80.30 ETC 168.71 CLP -108.48

PLANETOCENTRIC CONIC

C3 18.255 VHL 4.273 OLA 18.51 RAL 12.77 RAD 6567.7 VEL 11.817 PTH 2.09 VHP 3.273 DPA 13.08 RAP 343.85 ECC 1.3004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 58 8 2809.87 -28.22 82.54 239.19 92.45 6 44 58 2209.9 -27.58 73.94
 90.00 23 2 35 4219.86 .60 173.09 232.44 61.69 24 12 55 3619.9 -3.11 166.46
 100.00 7 30 37 2511.62 -29.65 60.51 239.10 94.01 8 12 29 1911.6 -28.78 51.82
 100.00 0 16 43 3993.33 1.93 155.74 231.75 60.16 1 23 17 3393.3 -2.05 149.22
 110.00 9 3 8 2222.17 -33.31 38.07 238.64 98.14 9 40 10 1622.2 -31.83 29.16
 110.00 1 0 42 3855.55 5.06 143.34 229.80 56.15 2 4 57 3255.5 .58 137.12

DIFFERENTIAL CORRECTIONS

TOE 1.1282 TRA 1.8965 TC3-1.4431 BAU .3814
 RDE -.5076 RRA-1.2847 RC3 .5995 FAU .11161
 FDE 7.0596 FRA11.8378 FC3-5.2929 BSP 11229
 BOE 1.2371 BRA 2.2906 BC3 1.5626 FSP -5901

MID-COURSE EXECUTION ACCURACY

SGT 3316.9 SGR 2006.5 SG3 1707.0
 RRT -.9817 RRF -.9882 RTF .9888
 SGB 3876.6 R23 .0414 R13 -.9922
 SG1 3862.7 SG2 328.1 THA 149.05

ORBIT DETERMINATION ACCURACY

ST 1713.9 SR 872.1 SS 3030.9
 CRT -.9827 CRS .9825 CST -1.0000
 LSA 3586.0 MSA 157.6 SSA 13.3
 EL1 1917.6 EL2 144.5 ALF 153.27

LAUNCH DATE NOV 16 1968

FLIGHT TIME 196.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 526.504

RL 147.92 LAL -.00 LOL 53.70 VL 27.919 GAL 6.39 AZL 88.03 MCA 228.39 SMA 130.77 ECC .17137 INC 1.9695 V1 30.120
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.730 GAP 2.08 AZP 91.31 TAL 145.92 TAP 14.31 RCA 108.36 APO 153.18 V2 34.813
 RC 84.153 GL 12.73 GP 20.17 ZAL 36.46 ZAP 112.05 ETS 8.69 ZAE 139.43 ETE 156.07 ZAC 78.86 ETC 168.92 CLP -113.57

PLANETOCENTRIC CONIC

C3 18.721 VHL 4.327 OLA 19.27 RAL 12.68 RAD 6567.8 VEL 11.837 PTH 2.10 VHP 3.341 DPA 10.89 RAP 342.83 ECC 1.3081
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 34 2846.49 -28.30 85.22 239.87 91.11 6 37 0 2246.5 -27.84 76.58
 90.00 23 10 26 4195.04 -.12 171.70 232.92 61.68 24 20 21 3595.0 -3.91 165.07
 100.00 7 22 52 2545.64 -29.78 63.03 239.82 92.69 8 5 17 1945.6 -29.09 54.30
 100.00 0 23 45 3971.13 1.18 154.52 232.20 60.13 1 29 56 3371.1 -2.81 148.00
 110.00 8 56 57 2251.27 -33.57 40.31 239.45 96.84 9 34 28 1651.3 -32.26 31.32
 110.00 1 6 9 3838.26 4.41 142.44 230.19 56.07 2 10 7 3238.3 -.08 136.22

DIFFERENTIAL CORRECTIONS

TOE 1.3319 TRA 2.1879 TC3-1.5485 BAU .4100
 RDE -.4372 RRA-1.1663 RC3 .5345 FAU .10581
 FDE 6.9029 FRA11.3544 FC3-4.8932 BSP 12241
 BOE 1.4018 BRA 2.4794 BC3 1.6382 FSP -5703

MID-COURSE EXECUTION ACCURACY

SGT 3785.1 SGR 1796.1 SG3 1628.4
 RRT -.9800 RRF -.9841 RTF .9909
 SGB 4189.6 R23 .0293 R13 -.9926
 SG1 4177.1 SG2 323.7 THA 154.90

ORBIT DETERMINATION ACCURACY

ST 1990.0 SR 759.2 SS 2977.8
 CRT -.9755 CRS .9755 CST -1.0000
 LSA 3657.4 MSA 163.5 SSA 13.1
 EL1 2124.1 EL2 156.6 ALF 159.47

LAUNCH DATE NOV 16 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC
 RL 147.92 LAL -.00 LOL 53.70 VL 27.915 GAL 6.49 AZL 87.91 HCA 231.56 SMA 130.74 ECC .17273 INC 2.0929 V1 30.120
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.721 GAP 2.50 AZP 91.30 TAL 145.60 TAP 17.16 RCA 108.16 APO 153.33 V2 34.807
 RC 86.508 GL 13.35 GP 18.67 ZAL 36.42 ZAP 116.74 ETS 9.84 ZAE 137.10 ETE 159.59 ZAC 77.65 ETC 168.99 CLP-118.36

PLANETOCENTRIC CONIC
 C3 19.251 VHL 4.388 DLA 19.94 RAL 12.66 RAD 6567.8 VEL 11.859 PTH 2.10 VHP 3.433 OPA 8.91 RAP 342.01 ECC 1.3168
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 6 2880.51 -28.32 87.71 240.63 89.86 6 30 7 2280.5 -28.04 79.06
 90.00 23 17 45 4174.18 -.79 170.54 233.51 61.69 24 27 19 3574.2 -4.57 163.90
 100.00 7 16 10 2577.18 -29.86 65.38 240.61 91.46 7 59 7 1977.2 -29.34 56.61
 100.00 0 30 18 3952.75 .55 153.51 232.76 60.11 1 36 11 3352.7 -3.43 146.99
 110.00 8 51 43 2278.27 -33.77 42.39 240.33 95.63 9 29 41 1678.3 -32.63 33.34
 110.00 1 11 15 3824.43 3.88 141.71 230.68 56.01 2 14 59 3224.4 -.61 135.50

DIFFERENTIAL CORRECTIONS
 TDE 1.5287 TRA 2.4645 TC3-1.6319 BAU .4372 SGT 4213.8 SGR 1601.8 SG3 1536.1 ST 2245.4 SR 652.9 SS 2908.4
 RDE -.3685 RRA-1.0587 RC3 .4722 FAU .09848 RRT -.9761 RRF -.9785 RTF .9920 CRT -.9646 CRS .9651 CST-1.0000
 FDE 6.6689 FRA10.8013 FC3-4.4287 BSP 13288 SGB 4508.0 R23 .0200 R13 -.9929 LSA 3728.0 MSA 169.0 SSA 12.9
 BDE 1.5725 BRA 2.6823 BC3 1.6989 FSP -5426 SG1 4496.2 SG2 326.2 THA 159.53 EL1 2332.5 EL2 165.7 ALF 164.25

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 16 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC
 RL 147.92 LAL -.00 LOL 53.70 VL 27.910 GAL 6.61 AZL 87.79 HCA 234.72 SMA 130.70 ECC .17435 INC 2.2060 V1 30.120
 RP 108.89 LAP -1.80 LOP 288.40 VP 37.713 GAP 2.93 AZP 91.27 TAL 145.26 TAP 19.98 RCA 107.92 APO 153.49 V2 34.802
 RC 88.877 GL 13.86 GP 17.28 ZAL 36.33 ZAP 121.17 ETS 10.80 ZAE 134.81 ETE 162.45 ZAC 76.70 ETC 168.95 CLP-122.82

PLANETOCENTRIC CONIC
 C3 19.849 VHL 4.455 DLA 20.52 RAL 12.72 RAD 6567.8 VEL 11.884 PTH 2.11 VHP 3.548 OPA 7.15 RAP 341.40 ECC 1.3267
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 39 2912.29 -28.29 90.03 241.47 88.70 6 24 11 2312.3 -28.17 81.37
 90.00 23 24 37 4156.91 -1.35 169.58 234.19 61.71 24 33 54 3556.9 -5.12 162.93
 100.00 7 10 26 2606.63 -29.89 67.56 241.49 90.30 7 53 53 2006.6 -29.53 58.78
 100.00 0 36 26 3937.81 .05 152.70 233.41 60.11 1 42 4 3337.8 -3.93 146.17
 110.00 8 47 20 2303.50 -33.92 44.34 241.29 94.48 9 25 43 1703.5 -32.93 35.25
 110.00 1 16 2 3813.70 3.47 141.15 231.28 55.97 2 19 36 3213.7 -1.02 134.94

DIFFERENTIAL CORRECTIONS
 TDE 1.7147 TRA 2.7241 TC3-1.6985 BAU .4641 SGT 4598.4 SGR 1424.7 SG3 1434.7 ST 2474.7 SR 554.3 SS 2821.9
 RDE -.3016 RRA -.9609 RC3 .4176 FAU .09099 RRT -.9698 RRF -.9710 RTF .9927 CRT -.9477 CRS .9487 CST-1.0000
 FDE 6.3682 FRA10.1994 FC3-3.9687 BSP 14384 SGB 4814.0 R23 .0130 R13 -.9932 LSA 3789.9 MSA 174.3 SSA 12.8
 BDE 1.7410 BRA 2.8886 BC3 1.7491 FSP -5128 SG1 4802.5 SG2 332.4 THA 163.19 EL1 2530.1 EL2 173.0 ALF 167.96

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 16 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC
 RL 147.92 LAL -.00 LOL 53.70 VL 27.904 GAL 6.75 AZL 87.69 HCA 237.88 SMA 130.66 ECC .17623 INC 2.3104 V1 30.120
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.703 GAP 3.36 AZP 91.23 TAL 144.89 TAP 22.77 RCA 107.63 APO 153.68 V2 34.797
 RC 91.256 GL 14.28 GP 16.01 ZAL 36.19 ZAP 125.32 ETS 11.62 ZAE 132.64 ETE 164.76 ZAC 76.02 ETC 168.82 CLP-126.97

PLANETOCENTRIC CONIC
 C3 20.521 VHL 4.530 DLA 21.02 RAL 12.83 RAD 6567.8 VEL 11.912 PTH 2.12 VHP 3.683 OPA 5.60 RAP 341.02 ECC 1.3377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 7 2942.14 -28.22 92.21 242.39 87.61 6 19 9 2342.1 -28.26 83.55
 90.00 23 31 4 4142.93 -1.80 168.80 234.97 61.74 24 40 7 3542.9 -5.57 162.14
 100.00 7 5 35 2634.27 -29.88 69.62 242.44 89.22 7 49 30 2034.3 -29.67 60.82
 100.00 0 42 12 3926.03 -.35 152.05 234.16 60.11 1 47 38 3326.0 -4.33 145.52
 110.00 8 43 43 2327.28 -34.03 46.19 242.33 93.39 9 22 30 1727.3 -33.19 37.05
 110.00 1 20 34 3805.79 3.17 140.74 231.96 55.95 2 24 0 3205.8 -1.32 134.53

DIFFERENTIAL CORRECTIONS
 TDE 1.8915 TRA 2.9706 TC3-1.7454 BAU .4894 SGT 4942.2 SGR 1266.8 SG3 1330.5 ST 2680.3 SR 466.1 SS 2727.0
 RDE -.2384 RRA -.8740 RC3 .3687 FAU .08323 RRT -.9609 RRF -.9610 RTF .9931 CRT -.9213 CRS .9230 CST-1.0000
 FDE 6.0344 FRA 9.5881 FC3-3.5111 BSP 15442 SGB 5102.0 R23 .0081 R13 -.9933 LSA 3847.8 MSA 179.4 SSA 12.7
 BDE 1.9065 BRA 3.0965 BC3 1.7839 FSP -4804 SG1 5090.6 SG2 340.5 THA 166.10 EL1 2714.6 EL2 179.0 ALF 170.86

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 16 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC
 RL 147.92 LAL -.00 LOL 53.70 VL 27.896 GAL 6.91 AZL 87.59 HCA 241.05 SMA 130.60 ECC .17837 INC 2.4079 V1 30.120
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.694 GAP 3.79 AZP 91.17 TAL 144.49 TAP 25.53 RCA 107.31 APO 153.90 V2 34.793
 RC 93.644 GL 14.61 GP 14.84 ZAL 36.01 ZAP 129.19 ETS 12.33 ZAE 130.61 ETE 166.64 ZAC 75.59 ETC 168.64 CLP-130.82

PLANETOCENTRIC CONIC
 C3 21.272 VHL 4.612 DLA 21.46 RAL 13.00 RAD 6567.9 VEL 11.944 PTH 2.13 VHP 3.836 OPA 4.27 RAP 340.86 ECC 1.3501
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 25 26 2970.27 -28.13 94.27 243.39 86.58 6 14 56 2370.3 -28.30 85.61
 90.00 23 37 8 4132.04 -2.15 168.19 235.84 61.76 24 46 0 3532.0 -5.91 161.53
 100.00 7 1 33 2660.35 -29.84 71.56 243.48 88.20 7 45 53 2060.4 -29.77 62.75
 100.00 0 47 38 3917.19 -.65 151.56 235.73 60.11 1 52 55 3317.2 -4.62 145.03
 110.00 8 40 49 2349.81 -34.11 47.95 243.45 92.35 9 19 58 1749.8 -33.41 38.78
 110.00 1 24 52 3800.50 2.97 140.46 232.74 55.93 2 28 12 3200.5 -1.52 134.25

DIFFERENTIAL CORRECTIONS
 TDE 2.0599 TRA 3.2073 TC3-1.7732 BAU .5127 SGT 5248.9 SGR 1128.2 SG3 1227.9 ST 2863.6 SR 389.7 SS 2628.5
 RDE -.1796 RRA -.7975 FC3 .3252 FAU .07540 RRT -.9488 RRF -.9480 RTF .9932 CRT -.8796 CRS .8824 CST-1.0000
 FDE 5.6882 FRA 8.9913 FC3-3.0687 BSP 16439 SGB 5368.7 R23 .0047 R13 -.9934 LSA 3902.1 MSA 184.1 SSA 12.7
 BDE 2.0677 BRA 3.3049 BC3 1.8028 FSP -4470 SG1 5357.4 SG2 349.2 THA 168.42 EL1 2884.1 EL2 184.0 ALF 173.15

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 16 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 557.345

RL 147.92 LAL -.00 LOL 53.70 VL 27.887 GAL 7.09 AZL 87.50 MCA 244.21 SMA 130.54 ECC .18079 INC 2.4995 V1 30.120
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.684 GAP 4.22 AZP 91.09 TAL 144.06 TAP 28.26 RCA 106.94 APO 154.14 V2 34.789
 RC 96.038 GL 14.87 GP 13.78 ZAL 35.78 ZAP 132.79 ETS 12.95 ZAE 128.73 ETE 168.17 ZAC 75.42 ETC 168.43 CLP-134.38

PLANETOCENTRIC CONIC

C3 22.109 VHL 4.702 DLA 21.83 RAL 13.23 RAD 6567.9 VEL 11.979 PTH 2.13 VHP 4.006 DPA 3.14 RAP 340.91 ECC 1.3639
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 33 2996.89 -28.00 96.21 244.47 85.62 6 11 30 2396.9 -28.32 87.55
 90.00 23 42 50 4124.05 -2.41 167.74 236.79 61.78 24 51 34 3524.1 -6.17 161.08
 100.00 6 58 16 2685.07 -29.78 73.39 244.59 87.24 7 43 1 2085.1 -29.84 64.59
 100.00 0 52 44 3911.11 -.86 151.23 235.92 60.12 1 57 55 3311.1 -4.83 144.69
 110.00 8 38 33 2371.31 -34.16 49.62 244.66 91.36 9 18 5 1771.3 -33.59 40.43
 110.00 1 28 56 3797.64 2.86 140.31 233.60 55.92 2 32 14 3197.6 -1.63 134.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2205 TRA 3.4366 TC3-1.7834 BAU .5339 SGT 5521.3 SGR 1007.8 SG3 1129.3 ST 3025.8 SR 325.7 SS 2528.9
 RDE -.1251 RRA -.7305 RC3 .2870 FAU .06778 RRT -.9329 RRF -.9313 RTF .9932 CRT -.8141 CRS .8183 CST -1.0000
 FDE 5.3428 FRA 8.4225 FC3-2.6541 BSP 17362 SGB 5612.6 R23 .0024 R13 -.9933 LSA 3952.3 MSA 188.4 SSA 12.7
 BDE 2.2240 BRA 3.5134 BC3 1.8063 FSP -4138 SG1 5601.1 SG2 357.7 THA 170.30 EL1 3037.4 EL2 188.4 ALF 174.97

LAUNCH DATE NOV 16 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 563.429

RL 147.92 LAL -.00 LOL 53.70 VL 27.877 GAL 7.28 AZL 87.41 MCA 247.37 SMA 130.47 ECC .18350 INC 2.5863 V1 30.120
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.675 GAP 4.66 AZP 91.00 TAL 143.60 TAP 30.97 RCA 106.53 APO 154.41 V2 34.787
 RC 98.436 GL 15.07 GP 12.82 ZAL 35.51 ZAP 136.14 ETS 13.51 ZAE 127.01 ETE 169.42 ZAC 75.48 ETC 168.20 CLP-137.68

PLANETOCENTRIC CONIC

C3 23.041 VHL 4.800 DLA 22.16 RAL 13.51 RAD 6567.9 VEL 12.017 PTH 2.14 VHP 4.191 DPA 2.20 RAP 341.15 ECC 1.3792
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 26 3022.15 -27.86 98.04 245.62 84.71 6 8 48 2422.1 -28.30 89.40
 90.00 23 48 10 4118.85 -2.58 167.45 237.81 61.79 24 56 49 3518.9 -6.33 160.78
 100.00 6 55 41 2708.58 -29.69 75.13 245.79 86.33 7 40 50 2108.6 -29.88 66.33
 100.00 0 57 32 3907.66 -.98 151.04 236.92 60.12 2 2 40 3307.7 -4.94 144.50
 110.00 8 36 54 2391.92 -34.18 51.23 245.94 90.41 9 16 46 1791.9 -33.75 42.02
 110.00 1 32 49 3797.08 2.84 140.28 234.54 55.92 2 36 6 3197.1 -1.65 134.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3772 TRA 3.6640 TC3-1.7728 BAU .5516 SGT 5766.1 SGR 904.2 SG3 1037.1 ST 3171.9 SR 275.1 SS 2433.4
 RDE -.0752 RRA -.6723 RC3 .2525 FAU .06013 RRT -.9127 RRF -.9103 RTF .9930 CRT -.7142 CRS .7201 CST -.9999
 FDE 5.0144 FRA 7.8962 FC3-2.2592 BSP 18144 SGB 5836.5 R23 .0007 R13 -.9931 LSA 4002.6 MSA 192.4 SSA 12.7
 BDE 2.3784 BRA 3.7252 BC3 1.7906 FSP -3800 SG1 5825.1 SG2 365.6 THA 171.82 EL1 3178.0 EL2 192.2 ALF 176.44

LAUNCH DATE NOV 16 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 569.482

RL 147.92 LAL -.00 LOL 53.70 VL 27.867 GAL 7.50 AZL 87.33 MCA 250.53 SMA 130.39 ECC .18651 INC 2.6693 V1 30.120
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.665 GAP 5.11 AZP 90.89 TAL 143.12 TAP 33.64 RCA 106.07 APO 154.71 V2 34.785
 RC 100.837 GL 15.20 GP 11.95 ZAL 35.20 ZAP 139.25 ETS 14.04 ZAE 125.45 ETE 170.44 ZAC 75.76 ETC 167.97 CLP-140.74

PLANETOCENTRIC CONIC

C3 24.077 VHL 4.907 DLA 22.44 RAL 13.84 RAD 6568.0 VEL 12.060 PTH 2.16 VHP 4.392 DPA 1.44 RAP 341.57 ECC 1.3962
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 16 1 3046.16 -27.70 99.78 246.86 83.85 6 6 48 2446.2 -28.26 91.16
 90.00 23 53 10 4116.33 -2.66 167.31 238.92 61.80 25 1 47 3516.3 -6.41 160.64
 100.00 6 53 46 2731.01 -29.58 76.79 247.06 85.46 7 39 17 2131.0 -29.89 68.00
 100.00 1 2 3 3906.72 -1.01 150.99 238.00 60.12 2 7 10 3306.7 -4.98 144.45
 110.00 8 35 48 2411.78 -34.18 52.79 247.30 89.49 9 16 0 1811.8 -33.87 43.55
 110.00 1 36 30 3798.72 2.90 140.37 235.56 55.93 2 39 49 3198.7 -1.59 134.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.5247 TRA 3.8858 TC3-1.7533 BAU .5689 SGT 5979.1 SGR 814.9 SG3 950.4 ST 3295.8 SR 237.6 SS 2336.2
 RDE -.0283 RRA -.6207 RC3 .2235 FAU .05342 RRT -.8874 RRF -.8842 RTF .9928 CRT -.5670 CRS .5749 CST -.9999
 FDE 4.6930 FRA 7.4015 FC3-1.9210 BSP 18932 SGB 6034.3 R23 -.0006 R13 -.9928 LSA 4042.0 MSA 196.1 SSA 12.7
 BDE 2.5249 BRA 3.9351 BC3 1.7675 FSP -3501 SG1 6022.8 SG2 372.9 THA 173.08 EL1 3298.6 EL2 195.6 ALF 177.65

LAUNCH DATE NOV 16 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 575.502

RL 147.92 LAL -.00 LOL 53.70 VL 27.855 GAL 7.73 AZL 87.25 MCA 253.69 SMA 130.31 ECC .18984 INC 2.7490 V1 30.120
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.655 GAP 5.57 AZP 90.77 TAL 142.61 TAP 36.30 RCA 105.57 APO 155.03 V2 34.784
 RC 103.240 GL 15.28 GP 11.17 ZAL 34.86 ZAP 142.14 ETS 14.56 ZAE 124.03 ETE 171.29 ZAC 76.22 ETC 167.76 CLP-143.58

PLANETOCENTRIC CONIC

C3 25.228 VHL 5.023 DLA 22.67 RAL 14.20 RAD 6568.0 VEL 12.108 PTH 2.17 VHP 4.607 DPA .84 RAP 342.15 ECC 1.4152
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 17 3069.05 -27.52 101.43 248.17 83.04 6 5 26 2469.1 -28.20 92.83
 90.00 0 1 46 4116.41 -2.66 167.32 240.09 61.80 1 10 22 3516.4 -6.41 160.64
 100.00 6 52 28 2752.50 -29.45 78.38 248.41 84.64 7 38 20 2152.5 -29.88 69.60
 100.00 1 6 16 3908.20 -.96 151.07 239.14 60.12 2 11 25 3308.2 -4.93 144.53
 110.00 8 35 13 2431.02 -34.16 54.29 248.73 88.60 9 15 44 1831.0 -33.97 45.05
 110.00 1 40 0 3802.44 3.04 140.56 236.65 55.94 2 43 23 3202.4 -1.45 134.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6680 TRA 4.1081 TC3-1.7205 BAU .5841 SGT 6167.8 SGR 738.7 SG3 870.7 ST 3403.9 SR 214.1 SS 2242.9
 RDE .0153 RRA -.5753 RC3 .1980 FAU .04716 RRT -.8566 RRF -.8525 RTF .9925 CRT -.3736 CRS .3836 CST -.9999
 FDE 4.3922 FRA 6.9493 FC3-1.6185 BSP 19642 SGB 6211.9 R23 -.0017 R13 -.9925 LSA 4077.1 MSA 199.4 SSA 12.8
 BDE 2.6680 BRA 4.1482 BC3 1.7318 FSP -3220 SG1 6200.3 SG2 379.2 THA 174.12 EL1 3404.8 EL2 198.6 ALF 178.65

LAUNCH DATE NOV 16 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 581.487

RL 147.92 LAL -.00 LOL 53.70 VL 27.843 GAL 7.99 AZL 87.17 MCA 256.85 SMA 130.22 ECC .19349 INC 2.8262 V1 30.120
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.646 GAP 6.03 AZP 90.64 TAL 142.08 TAP 38.93 RCA 105.02 APO 155.42 V2 34.783
 RC 105.643 GL 15.31 GP 10.47 ZAL 34.49 ZAP 144.83 ETS 15.08 ZAE 122.76 ETE 172.00 ZAC 76.86 ETC 167.55 CLP-146.23

PLANETOCENTRIC CONIC

C3 26.507 VHL 5.149 DLA 22.87 RAL 14.61 RAD 6568.1 VEL 12.161 PTH 2.18 VHP 4.837 DPA .38 RAP 342.88 ECC 1.4362
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 12 3090.91 -27.33 103.00 249.56 82.28 6 4 43 2490.9 -28.11 94.42
 90.00 0 6 5 4119.02 -2.57 167.46 241.33 61.79 1 14 44 3519.0 -6.33 160.79
 100.00 6 51 45 2773.14 -29.31 79.90 249.83 83.85 7 37 58 2173.1 -29.85 71.13
 100.00 1 10 13 3912.02 -.83 151.28 240.36 60.12 2 15 25 3312.0 -4.80 144.74
 110.00 8 35 7 2449.73 -34.12 55.75 250.25 87.74 9 15 57 1849.7 -34.05 46.50
 110.00 1 43 20 3808.19 3.26 140.86 237.81 55.95 2 46 48 3208.2 -1.23 134.66

DIFFERENTIAL CORRECTIONS

TDE 2.8078 TRA 4.3333 TC3-1.6756 BAU .5970
 RDE .0560 RRA -.5350 RC3 .1755 FAU .04136
 FDE 4.1131 FRA 6.5368 FC3-1.3508 BSP 20279
 BOE 2.8084 BRA 4.3662 BC3 1.6848 FSP -2957

MID-COURSE EXECUTION ACCURACY

SGT 6334.9 SGR 673.9 SG3 797.8
 RRT -.8197 RRF -.8148 RTF .9922
 SGB 6370.7 R23 -.0026 R13 -.9922
 SGI 6359.1 SGI 384.5 TMA 175.00

ORBIT DETERMINATION ACCURACY

ST 3497.4 SR 203.7 SS 2153.9
 CRT -.1545 CRS .1661 CST -.9999
 LSA 4107.4 MSA 202.3 SSA 12.8
 EL1 3497.5 EL2 201.2 ALF 179.48

LAUNCH DATE NOV 16 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 587.434

RL 147.92 LAL -.00 LOL 53.70 VL 27.829 GAL 8.27 AZL 87.10 MCA 260.01 SMA 130.13 ECC .19750 INC 2.9015 V1 30.120
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.636 GAP 6.51 AZP 90.50 TAL 141.53 TAP 41.54 RCA 104.43 APO 155.83 V2 34.783
 RC 108.045 GL 15.29 GP 9.84 ZAL 34.08 ZAP 147.35 ETS 15.62 ZAE 121.60 ETE 172.60 ZAC 77.66 ETC 167.36 CLP-148.71

PLANETOCENTRIC CONIC

C3 27.929 VHL 5.285 DLA 23.02 RAL 15.05 RAD 6568.1 VEL 12.219 PTH 2.20 VHP 5.080 DPA .05 RAP 343.75 ECC 1.4596
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 12 43 3111.82 -27.13 104.50 251.02 81.55 6 4 35 2511.8 -28.02 95.94
 90.00 0 10 4 4124.09 -2.41 167.75 242.43 61.78 1 18 48 3524.1 -6.17 161.08
 100.00 6 51 36 2793.02 -29.16 81.35 251.33 83.10 7 38 9 2193.0 -29.81 72.61
 100.00 1 13 53 3918.12 -.62 151.62 241.64 60.11 2 19 11 3318.1 -4.59 145.08
 110.00 8 35 29 2468.01 -34.06 57.17 251.84 86.90 9 16 37 1868.0 -34.11 47.93
 110.00 1 46 29 3815.90 3.56 141.26 239.03 55.98 2 50 5 3215.9 -.93 135.06

DIFFERENTIAL CORRECTIONS

TDE 2.9452 TRA 4.5630 TC3-1.6209 BAU .6080
 RDE .0942 RRA -.4989 RC3 .1556 FAU .03605
 FDE 3.8559 FRA 6.1669 FC3-1.1174 BSP 20858
 BOE 2.9467 BRA 4.5902 BC3 1.6283 FSP -2716

MID-COURSE EXECUTION ACCURACY

SGT 6482.6 SGR 618.8 SG3 731.3
 RRT -.7765 RRF -.7707 RTF .9918
 SGB 6512.1 R23 -.0034 R13 -.9918
 SGI 6500.5 SGI 388.9 TMA 175.75

ORBIT DETERMINATION ACCURACY

ST 3577.5 SR 203.8 SS 2069.3
 CRT .0571 CRS -.0444 CST -.9999
 LSA 4132.8 MSA 204.8 SSA 12.8
 EL1 3577.5 EL2 203.5 ALF .19

LAUNCH DATE NOV 16 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 593.340

RL 147.92 LAL -.00 LOL 53.70 VL 27.816 GAL 8.58 AZL 87.02 MCA 263.17 SMA 130.03 ECC .20188 INC 2.9753 V1 30.120
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.627 GAP 7.00 AZP 90.35 TAL 140.96 TAP 44.13 RCA 103.78 APO 156.28 V2 34.784
 RC 110.446 GL 15.24 GP 9.27 ZAL 33.65 ZAP 149.71 ETS 16.19 ZAE 120.56 ETE 173.10 ZAC 78.59 ETC 167.20 CLP-151.03

PLANETOCENTRIC CONIC

C3 29.512 VHL 5.432 DLA 23.15 RAL 15.52 RAD 6568.2 VEL 12.284 PTH 2.21 VHP 5.338 DPA -.15 RAP 344.73 ECC 1.4857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 12 50 3131.86 -26.92 105.93 252.56 80.86 6 5 1 2531.9 -27.91 97.40
 90.00 0 13 43 4131.58 -2.17 168.16 244.00 61.76 1 22 35 3531.6 -5.93 161.50
 100.00 6 51 57 2812.83 -28.99 82.76 252.91 82.37 7 38 50 2212.2 -29.74 74.03
 100.00 1 17 17 3926.44 -.34 152.07 242.98 60.11 2 22 43 3326.4 -4.31 145.54
 110.00 8 36 15 2485.94 -33.98 58.57 253.50 86.08 9 17 41 1885.9 -34.15 49.33
 110.00 1 49 28 3825.50 3.92 141.77 240.32 56.02 2 53 14 3225.5 -.57 135.56

DIFFERENTIAL CORRECTIONS

TDE 3.0849 TRA 4.8034 TC3-1.5522 BAU .6148
 RDE .1302 RRA -.4664 RC3 .1373 FAU .03091
 FDE 3.6253 FRA 5.8364 FC3 -.9069 BSP 21295
 BOE 3.0876 BRA 4.8260 BC3 1.5582 FSP -2483

MID-COURSE EXECUTION ACCURACY

SGT 6617.2 SGR 572.2 SG3 671.5
 RRT -.7270 RRF -.7204 RTF .9914
 SGB 6641.9 R23 -.0042 R13 -.9914
 SGI 6630.3 SGI 392.1 TMA 176.39

ORBIT DETERMINATION ACCURACY

ST 3649.8 SR 211.3 SS 1992.0
 CRT .2351 CRS -.2220 CST -.9999
 LSA 4158.2 MSA 206.9 SSA 12.8
 EL1 3650.1 EL2 205.4 ALF .78

LAUNCH DATE NOV 16 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 599.202

RL 147.92 LAL -.00 LOL 53.70 VL 27.801 GAL 8.91 AZL 86.95 MCA 266.33 SMA 129.93 ECC .20667 INC 3.0481 V1 30.120
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.617 GAP 7.51 AZP 90.20 TAL 140.38 TAP 46.71 RCA 103.07 APO 156.78 V2 34.786
 RC 112.844 GL 15.14 GP 8.76 ZAL 33.20 ZAP 151.92 ETS 16.81 ZAE 119.62 ETE 173.54 ZAC 79.65 ETC 167.05 CLP-153.21

PLANETOCENTRIC CONIC

C3 31.274 VHL 5.592 DLA 23.24 RAL 16.02 RAD 6568.2 VEL 12.355 PTH 2.23 VHP 5.611 DPA -.25 RAP 345.82 ECC 1.5147
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 29 3151.10 -26.70 107.29 254.18 80.21 6 6 0 2551.1 -27.78 98.79
 90.00 0 17 2 4141.45 -1.85 168.72 245.42 61.74 1 26 4 3541.5 -5.62 162.06
 100.00 6 52 49 2830.84 -28.82 84.11 254.56 81.68 7 40 0 2230.8 -29.67 75.41
 100.00 1 20 24 3936.94 .02 152.65 244.38 60.11 2 26 1 3336.9 -3.96 146.12
 110.00 8 37 25 2503.58 -33.89 59.94 255.24 85.27 9 19 9 1903.6 -34.18 50.70
 110.00 1 52 17 3836.97 4.36 142.37 241.68 56.06 2 56 14 3237.0 -.13 136.16

DIFFERENTIAL CORRECTIONS

TDE 3.2195 TRA 5.0482 TC3-1.4817 BAU .6216
 RDE .1650 RRA -.4363 RC3 .1215 FAU .02652
 FDE 3.4080 FRA 5.5338 FC3 -.7341 BSP 21781
 BOE 3.2237 BRA 5.0670 BC3 1.4867 FSP -2284

MID-COURSE EXECUTION ACCURACY

SGT 6731.2 SGR 532.6 SG3 616.6
 RRT -.6711 RRF -.6637 RTF .9910
 SGB 6752.3 R23 -.0049 R13 -.9910
 SGI 6740.8 SGI 394.3 TMA 176.95

ORBIT DETERMINATION ACCURACY

ST 3705.9 SR 223.3 SS 1916.0
 CRT .3756 CRS -.3624 CST -.9999
 LSA 4172.7 MSA 208.6 SSA 12.7
 EL1 3706.9 EL2 206.9 ALF 1.30

LAUNCH DATE NOV 17 1968

FLIGHT TIME 70.00

ARRIVAL DATE JAN 26 1969

HELIOCENTRIC CONIC

DISTANCE 121.844

RL 147.89 LAL -.00 LOL 54.71 VL 13.738 GAL 41.25 AZL 89.40 HCA 26.16 SMA 82.64 ECC .88726 INC .6008 V1 30.126
 RP 107.74 LAP .27 LOP 80.87 VP 29.285 GAP -61.04 AZP 89.46 TAL 173.25 TAP 199.42 RCA 9.32 APO 155.96 V2 35.173
 RC 104.205 GL .28 GP -1.22 ZAL 64.54 ZAP 39.57 ETS 176.08 ZAE 127.39 ETE 183.09 ZAC 37.98 ETC 152.30 CLP 39.55

PLANETOCENTRIC CONIC

C3 480.766 VHL 21.926 DLA -3.63 RAL 350.86 RAD 6572.3 VEL 24.537 PTH 3.33 VHP 33.005 DPA -23.58 RAP 303.36 ECC 8.9122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 26 59 2723.79 -27.81 76.28 255.83 95.56 8 12 23 2123.8 -26.75 67.78
 90.00 18 31 3 5593.25 28.20 261.69 259.69 92.65 20 4 17 4993.3 28.27 253.02
 100.00 8 46 38 2466.87 -29.39 57.21 255.65 95.73 9 27 45 1866.9 -28.29 48.58
 100.00 19 54 6 5325.40 29.79 242.07 259.78 92.62 21 22 51 4725.4 29.83 233.27
 110.00 9 50 59 2265.42 -33.68 41.40 255.13 96.21 10 28 44 1665.4 -32.46 32.38
 110.00 21 6 14 5099.62 34.10 225.16 260.01 92.53 22 31 14 4499.6 34.08 215.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0302 TRA-2.4183 TC3 -.1028 BAU .6610 SGT 822.5 SGR 461.4 SCS 21.0 ST 329.8 SR 412.0 SS 335.9
 RDE-1.5568 RRA .8292 RC3 -.0038 FAU .00995 RRT -.0540 RRF .0484 RTF -.6130 CRT .7151 CRS .7563 CST .9963
 FDE .3833 FRA .7891 FC3 -.0179 BSP 1953 SGB 943.1 R23 -.0002 R13 .6131 LSA 583.6 MSA 224.9 SSA 14.2
 BDE 1.8669 BRA 2.5565 BC3 .1028 FSP -43 SGI 823.1 SGT 460.5 THA 177.47 EL1 491.0 EL2 193.4 ALF 53.71

LAUNCH DATE NOV 17 1968

FLIGHT TIME 72.00

ARRIVAL DATE JAN 28 1969

HELIOCENTRIC CONIC

DISTANCE 126.779

RL 147.89 LAL -.00 LOL 54.71 VL 14.584 GAL 39.00 AZL 89.07 HCA 29.39 SMA 83.89 ECC .86466 INC .9278 V1 30.126
 RP 107.71 LAP .46 LOP 84.10 VP 29.703 GAP -58.40 AZP 89.19 TAL 172.30 TAP 201.69 RCA 11.35 APO 156.42 V2 35.183
 RC 101.983 GL .50 GP -1.25 ZAL 63.07 ZAP 38.02 ETS 176.03 ZAE 127.02 ETE 183.58 ZAC 39.52 ETC 153.26 CLP 38.01

PLANETOCENTRIC CONIC

C3 444.302 VHL 21.078 DLA -2.86 RAL 352.13 RAD 6572.2 VEL 23.782 PTH 3.30 VHP 31.897 DPA -23.29 RAP 305.18 ECC 8.3121
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 26 15 2741.08 -27.92 77.54 256.97 94.94 8 11 56 2141.1 -26.94 69.01
 90.00 18 41 54 5582.24 28.28 259.42 260.02 91.52 20 14 36 4962.2 28.19 250.76
 100.00 8 46 15 2482.98 -29.49 58.40 256.81 95.11 9 27 38 1883.0 -28.47 49.74
 100.00 20 4 34 5295.57 29.86 259.86 260.06 91.45 21 32 50 4695.6 29.74 231.05
 110.00 9 51 27 2278.91 -33.78 42.44 256.34 95.60 10 29 26 1678.9 -32.63 33.39
 110.00 21 15 32 5072.40 34.16 223.03 260.19 91.28 22 40 25 4472.4 33.96 213.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0433 TRA-2.4499 TC3 -.1100 BAU .6540 SGT 860.3 SGR 468.0 SCS 22.5 ST 347.3 SR 416.9 SS 352.2
 RDE-1.5141 RRA .8153 RC3 -.0045 FAU .00989 RRT -.0557 RRF .0502 RTF -.6314 CRT .7141 CRS .7578 CST .9962
 FDE .4007 FRA .8184 FC3 -.0193 BSP 2071 SGB 979.3 R23 -.0003 R13 .6315 LSA 604.1 MSA 231.1 SSA 14.5
 BDE 1.8388 BRA 2.5820 BC3 .1101 FSP -47 SGI 860.8 SGT 466.9 THA 177.54 EL1 504.0 EL2 201.1 ALF 52.21

LAUNCH DATE NOV 17 1968

FLIGHT TIME 74.00

ARRIVAL DATE JAN 30 1969

HELIOCENTRIC CONIC

DISTANCE 131.870

RL 147.89 LAL -.00 LOL 54.71 VL 15.387 GAL 36.99 AZL 88.80 HCA 32.63 SMA 85.18 ECC .84127 INC 1.1953 V1 30.126
 RP 107.68 LAP .64 LOP 87.33 VP 30.117 GAP -55.91 AZP 88.99 TAL 171.33 TAP 203.96 RCA 13.52 APO 156.85 V2 35.193
 RC 99.759 GL .72 GP -1.27 ZAL 61.65 ZAP 36.51 ETS 175.98 ZAE 126.72 ETE 183.69 ZAC 41.10 ETC 154.16 CLP 36.49

PLANETOCENTRIC CONIC

C3 410.835 VHL 20.269 DLA -2.09 RAL 353.35 RAD 6572.1 VEL 23.068 PTH 3.28 VHP 30.825 DPA -22.98 RAP 307.01 ECC 7.7613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 25 23 2757.72 -28.01 78.74 258.03 94.35 8 11 21 2157.7 -27.11 70.19
 90.00 18 52 29 5531.11 28.31 257.14 260.26 90.38 20 24 40 4931.1 28.07 248.49
 100.00 8 45 46 2498.46 -29.58 59.54 257.90 94.51 9 27 24 1898.5 -28.64 50.86
 100.00 20 14 47 5265.60 29.89 237.63 260.27 90.28 21 42 33 4665.6 29.61 228.84
 110.00 9 51 46 2291.80 -33.86 43.44 257.48 95.01 10 29 58 1691.8 -32.79 34.36
 110.00 21 25 16 5045.02 34.18 220.90 260.29 90.01 22 49 21 4445.0 33.81 211.67

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0562 TRA-2.4823 TC3 -.1175 BAU .6461 SGT 899.5 SGR 473.9 SCS 24.2 ST 365.7 SR 421.4 SS 368.8
 RDE-1.4712 RRA .8000 RC3 -.0053 FAU .00984 RRT -.0575 RRF .0521 RTF -.6492 CRT .7131 CRS .7592 CST .9961
 FDE .4184 FRA .8482 FC3 -.0207 BSP 2196 SGB 1016.7 R23 -.0005 R13 .6493 LSA 625.2 MSA 236.9 SSA 14.7
 BDE 1.8110 BRA 2.6080 BC3 .1176 FSP -51 SGI 900.0 SGT 472.9 THA 177.60 EL1 517.4 EL2 208.8 ALF 50.64

LAUNCH DATE NOV 17 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 1 1969

HELIOCENTRIC CONIC

DISTANCE 137.108

RL 147.89 LAL -.00 LOL 54.71 VL 16.148 GAL 35.16 AZL 88.58 HCA 35.86 SMA 86.52 ECC .81732 INC 1.4195 V1 30.126
 RP 107.65 LAP .83 LOP 90.56 VP 30.523 GAP -53.54 AZP 88.85 TAL 170.37 TAP 206.22 RCA 15.81 APO 157.23 V2 35.202
 RC 97.535 GL .96 GP -1.30 ZAL 60.27 ZAP 35.01 ETS 175.92 ZAE 126.46 ETE 184.01 ZAC 42.71 ETC 155.01 CLP 34.99

PLANETOCENTRIC CONIC

C3 380.070 VHL 19.495 DLA -1.33 RAL 354.52 RAD 6572.0 VEL 22.391 PTH 3.25 VHP 29.787 DPA -22.65 RAP 308.87 ECC 7.2550
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 24 24 2773.71 -28.09 79.91 259.02 93.77 8 10 38 2173.7 -27.27 71.34
 90.00 19 2 48 5499.84 28.31 254.86 260.44 89.23 20 34 28 4899.8 27.90 246.21
 100.00 8 45 8 2513.31 -29.66 60.64 258.90 93.94 9 27 1 1913.3 -28.79 51.94
 100.00 20 24 46 5235.48 29.88 235.39 260.41 89.10 21 52 1 4635.5 29.44 226.61
 110.00 9 51 58 2304.11 -33.93 44.39 258.53 94.45 10 30 22 1704.1 -32.94 35.29
 110.00 21 34 25 5017.45 34.16 218.74 260.31 88.74 22 58 3 4417.4 33.61 209.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0668 TRA-2.5131 TC3 -.1250 BAU .6361 SGT 939.0 SGR 479.3 SCS 26.0 ST 384.2 SR 425.3 SS 385.4
 RDE-1.4280 RRA .7835 RC3 -.0082 FAU .00981 RRT -.0595 RRF .0540 RTF -.6663 CRT .7115 CRS .7603 CST .9959
 FDE .4360 FRA .8781 FC3 -.0224 BSP 2384 SGB 1054.3 R23 -.0005 R13 .6665 LSA 646.5 MSA 242.6 SSA 14.9
 BDE 1.7824 BRA 2.6324 BC3 .1252 FSP -56 SGI 939.6 SGT 478.2 THA 177.65 EL1 530.8 EL2 216.4 ALF 49.07

LAUNCH DATE NOV 17 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 3 1969

HELIOCENTRIC CONIC

DISTANCE 142.485

RL 147.89 LAL -.00 LOL 54.71 VL 16.868 GAL 33.49 AZL 88.39 MCA 39.10 SMA 87.88 ECC .79300 INC 1.6111 V1 30.126
 RP 107.63 LAP 1.02 LOP 93.80 VP 30.920 GAP -51.30 AZP 88.75 TAL 169.40 TAP 208.49 RCA 18.19 APO 157.57 V2 35.210
 RC 95.312 GL 1.21 GP -1.34 ZAL 58.94 ZAP 33.55 ETS 175.84 ZAE 126.27 ETE 184.35 ZAC 44.36 ETC 155.81 CLP 33.52

PLANETOCENTRIC CONIC

C3 351.751 VML 18.755 DLA -.57 RAL 355.64 RAD 6571.9 VEL 21.750 PTH 3.23 VMP 28.781 OPA -22.30 RAP 310.74 ECC 6.7889
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 23 18 2789.08 -28.15 81.03 259.93 93.21 8 9 47 2189.1 -27.41 72.44
 90.00 19 12 54 5468.39 28.26 252.56 260.53 88.08 20 44 2 4868.4 27.69 243.94
 100.00 8 44 23 2527.54 -29.72 61.69 259.82 93.39 9 26 30 1927.5 -28.93 52.98
 100.00 20 34 30 5205.15 29.83 233.14 260.47 87.92 22 1 15 4605.2 29.22 224.38
 110.00 9 52 1 2315.82 -33.99 45.30 259.50 93.92 10 30 37 1715.8 -33.07 36.18
 110.00 21 43 21 4989.64 34.10 216.57 260.27 87.45 23 6 31 4389.6 33.37 207.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0795 TRA-2.5464 TC3 -.1330 BAU .6266 SGT 981.3 SGR 484.1 SG3 27.9 ST 404.3 SR 428.7 SS 402.5
 RDE-1.3845 RRA .7660 RC3 -.0072 FAU .00978 RRT -.0611 RRF .0558 RTF -.6830 CRT .7102 CRS .7615 CST .9957
 FDE .4542 FRA .9087 FC3 -.0241 BSP 2528 SGB 1094.3 R23 -.0007 R13 .6832 LSA 669.0 MSA 247.9 SSA 15.1
 BDE 1.7556 BRA 2.6591 BC3 .1332 FSP -61 SGI 981.9 SG2 482.9 THA 177.72 EL1 545.1 EL2 223.8 ALF 47.36

LAUNCH DATE NOV 17 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 5 1969

HELIOCENTRIC CONIC

DISTANCE 147.993

RL 147.89 LAL -.00 LOL 54.71 VL 17.550 GAL 31.95 AZL 88.22 MCA 42.33 SMA 89.27 ECC .76847 INC 1.7779 V1 30.126
 RP 107.60 LAP 1.20 LOP 97.03 VP 31.306 GAP -49.17 AZP 88.69 TAL 168.43 TAP 210.77 RCA 20.67 APO 157.86 V2 35.218
 RC 93.090 GL 1.47 GP -1.37 ZAL 57.66 ZAP 32.10 ETS 175.75 ZAE 126.13 ETE 184.70 ZAC 46.03 ETC 156.56 CLP 32.07

PLANETOCENTRIC CONIC

C3 325.653 VML 18.046 DLA .18 RAL 356.73 RAD 6571.8 VEL 21.141 PTH 3.20 VMP 27.805 OPA -21.92 RAP 312.63 ECC 6.3594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 22 4 2803.82 -28.20 82.10 260.75 92.67 8 8 48 2203.8 -27.53 73.50
 90.00 19 22 46 5436.70 28.16 250.24 260.56 86.92 20 53 22 4836.7 27.44 241.65
 100.00 8 43 29 2541.17 -29.77 62.70 260.67 92.86 9 25 51 1941.2 -29.05 53.97
 100.00 20 44 1 5174.59 29.73 230.87 260.46 86.73 22 10 16 4574.6 28.96 222.15
 110.00 9 51 56 2326.95 -34.03 46.17 260.39 93.41 10 30 43 1727.0 -33.19 37.03
 110.00 21 52 4 4961.57 33.99 214.39 260.15 86.16 23 14 46 4361.6 33.09 205.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0924 TRA-2.5802 TC3 -.1413 BAU .6164 SGT 1025.5 SGR 488.3 SG3 30.0 ST 425.4 SR 431.6 SS 420.0
 RDE-1.3408 RRA .7474 RC3 -.0084 FAU .00977 RRT -.0626 RRF .0575 RTF -.6991 CRT .7090 CRS .7625 CST .9955
 FDE .4729 FRA .9400 FC3 -.0260 BSP 2672 SGB 1135.8 R23 -.0010 R13 .6993 LSA 692.4 MSA 253.0 SSA 15.3
 BDE 1.7295 BRA 2.6862 BC3 .1416 FSP -66 SGI 1026.1 SG2 487.1 THA 177.80 EL1 560.2 EL2 231.1 ALF 45.59

LAUNCH DATE NOV 17 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 7 1969

HELIOCENTRIC CONIC

DISTANCE 153.623

RL 147.89 LAL -.00 LOL 54.71 VL 18.195 GAL 30.51 AZL 88.07 MCA 45.57 SMA 90.67 ECC .74389 INC 1.9253 V1 30.126
 RP 107.58 LAP 1.37 LOP 100.27 VP 31.680 GAP -47.14 AZP 88.65 TAL 167.47 TAP 213.04 RCA 23.22 APO 158.12 V2 35.225
 RC 90.872 GL 1.74 GP -1.41 ZAL 56.42 ZAP 30.67 ETS 175.65 ZAE 126.05 ETE 185.07 ZAC 47.74 ETC 157.27 CLP 30.65

PLANETOCENTRIC CONIC

C3 301.577 VML 17.366 DLA .92 RAL 357.76 RAD 6571.7 VEL 20.564 PTH 3.17 VMP 26.857 OPA -21.52 RAP 314.53 ECC 5.9632
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 20 41 2817.96 -28.24 83.14 261.50 92.16 8 7 39 2218.0 -27.64 74.52
 90.00 19 32 24 5404.74 28.02 247.92 260.52 85.76 21 2 29 4804.7 27.14 239.36
 100.00 8 42 28 2554.19 -29.81 63.67 261.43 92.35 9 25 2 1954.2 -29.16 54.92
 100.00 20 53 19 5143.74 29.59 228.59 260.38 85.53 22 19 3 4543.7 28.65 219.91
 110.00 9 51 41 2337.50 -34.07 46.99 261.20 92.92 10 30 39 1737.5 -33.29 37.83
 110.00 22 0 35 4933.20 33.84 212.19 259.96 84.87 23 22 48 4333.2 32.76 203.12

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1048 TRA-2.6135 TC3 -.1499 BAU .6055 SGT 1071.2 SGR 491.9 SG3 32.2 ST 447.3 SR 433.9 SS 437.9
 RDE-1.2970 RRA .7279 RC3 -.0096 FAU .00976 RRT -.0640 RRF .0591 RTF -.7146 CRT .7077 CRS .7635 CST .9954
 FDE .4919 FRA .9718 FC3 -.0280 BSP 2830 SGB 1178.7 R23 -.0012 R13 .7147 LSA 716.6 MSA 257.6 SSA 15.5
 BDE 1.7037 BRA 2.7130 BC3 .1502 FSP -72 SGI 1071.8 SG2 490.6 THA 177.87 EL1 575.9 EL2 238.1 ALF 43.78

LAUNCH DATE NOV 17 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 9 1969

HELIOCENTRIC CONIC

DISTANCE 159.368

RL 147.89 LAL -.00 LOL 54.71 VL 18.805 GAL 29.17 AZL 87.94 MCA 48.81 SMA 92.09 ECC .71937 INC 2.0572 V1 30.126
 RP 107.56 LAP 1.55 LOP 103.51 VP 32.041 GAP -45.20 AZP 88.64 TAL 166.52 TAP 215.33 RCA 25.84 APO 158.34 V2 35.232
 RC 88.659 GL 2.02 GP -1.45 ZAL 55.22 ZAP 29.27 ETS 175.53 ZAE 126.03 ETE 185.45 ZAC 49.47 ETC 157.93 CLP 29.24

PLANETOCENTRIC CONIC

C3 279.347 VML 16.714 DLA 1.66 RAL 358.75 RAD 6571.6 VEL 20.016 PTH 3.14 VMP 25.937 OPA -21.10 RAP 316.45 ECC 5.5973
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 19 10 2831.50 -28.27 84.12 262.16 91.66 8 6 22 2231.5 -27.74 75.50
 90.00 19 41 51 5372.47 27.84 245.57 260.41 84.60 21 11 23 4772.5 26.80 237.06
 100.00 8 41 17 2566.63 -29.84 64.59 262.11 91.87 9 24 4 1966.6 -29.26 55.83
 100.00 21 2 25 5112.57 29.40 226.29 260.23 84.34 22 27 38 4512.6 28.31 217.66
 110.00 9 51 18 2347.47 -34.11 47.76 261.92 92.46 10 30 26 1747.5 -33.39 38.60
 110.00 22 8 53 4904.50 33.65 209.97 259.71 83.57 23 30 38 4304.5 32.39 200.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1170 TRA-2.6466 TC3 -.1586 BAU .5939 SGT 1118.8 SGR 494.8 SG3 34.5 ST 470.1 SR 435.7 SS 456.1
 RDE-1.2531 RRA .7076 RC3 -.0111 FAU .00977 RRT -.0654 RRF .0608 RTF -.7295 CRT .7063 CRS .7645 CST .9952
 FDE .5115 FRA 1.0043 FC3 -.0303 BSP 2996 SGB 1223.3 R23 -.0015 R13 .7296 LSA 741.6 MSA 261.9 SSA 15.7
 BDE 1.6786 BRA 2.7395 BC3 .1590 FSP -79 SGI 1119.3 SG2 493.4 THA 177.94 EL1 592.4 EL2 244.8 ALF 41.92

LAUNCH DATE NOV 17 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 11 1969

HELIOCENTRIC CONIC

DISTANCE 165.222

RL 147.89 LAL -0.00 LOL 54.71 VL 19.382 GAL 27.91 AZL 87.82 HCA 52.06 SMA 93.52 ECC .69503 INC 2.1767 V1 30.126
 RP 107.54 LAP 1.72 LOP 106.75 VP 32.390 GAP -43.35 AZP 88.66 TAL 165.57 TAP 217.63 RCA 28.52 APO 158.52 V2 35.238
 RC 86.433 GL 2.32 GP -1.50 ZAL 54.06 ZAP 27.88 ETS 175.38 ZAE 126.07 ETE 185.86 ZAC 51.23 ETC 158.56 CLP 27.85

PLANETOCENTRIC CONIC

C3 258.810 VHL 16.088 DLA 2.40 RAL 359.70 RAD 6571.5 VEL 19.497 PTH 3.11 VHP 25.042 DPA -20.66 RAP 318.37 ECC 5.2594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 17 30 2844.47 -28.29 85.07 262.75 91.19 8 4 54 2244.5 -27.83 76.44
 90.00 19 51 6 5339.85 27.61 243.21 260.23 83.44 21 20 5 4739.8 26.41 234.75
 100.00 8 39 57 2578.49 -29.86 65.47 262.71 91.40 9 22 56 1978.5 -29.35 56.71
 100.00 21 11 19 5081.04 29.17 223.97 260.02 83.14 22 36 0 4481.0 27.91 215.40
 110.00 9 50 46 2356.87 -34.13 48.50 262.56 92.03 10 30 3 1756.9 -33.47 39.32
 110.00 22 17 0 4875.43 33.40 207.73 259.38 82.27 23 38 15 4275.4 31.97 198.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1292 TRA-2.6792 TC3 -.1676 BAU .5817 SGT 1168.2 SGR 497.0 S63 37.0 ST 494.0 SR 436.8 S5 474.8
 RDE-1.2091 RRA .6866 RC3 -.0126 FAU .00980 RRT -.0666 RRF .0623 RTF -.7437 CRT .7050 CRS .7654 CST .9949
 FDE .5315 FRA 1.0375 FC3 -.0328 BSP 3167 SGB 1269.5 R23 -.0019 R13 .7438 LSA 767.7 MSA 265.8 SSA 15.8
 BDE 1.6544 BRA 2.7658 BC3 .1681 FSP -85 SG1 1168.8 S62 495.6 THA 178.02 EL1 609.8 EL2 251.0 ALF 40.04

LAUNCH DATE NOV 17 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC

DISTANCE 171.177

RL 147.89 LAL -0.00 LOL 54.71 VL 19.927 GAL 26.73 AZL 87.71 HCA 55.30 SMA 94.96 ECC .67095 INC 2.2862 V1 30.126
 RP 107.53 LAP 1.88 LOP 109.99 VP 32.724 GAP -41.58 AZP 88.70 TAL 164.64 TAP 219.94 RCA 31.25 APO 158.67 V2 35.243
 RC 84.254 GL 2.63 GP -1.55 ZAL 52.95 ZAP 26.51 ETS 175.20 ZAE 126.17 ETE 186.28 ZAC 53.01 ETC 159.15 CLP 26.47

PLANETOCENTRIC CONIC

C3 239.825 VHL 15.486 DLA 3.13 RAL .61 RAD 6571.4 VEL 19.004 PTH 3.08 VHP 24.173 DPA -20.19 RAP 320.31 ECC 4.9469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 15 40 2856.89 -28.31 85.88 263.25 90.73 8 3 17 2256.9 -27.91 77.34
 90.00 20 0 9 5308.80 27.33 240.84 259.98 82.28 21 28 36 4706.8 25.98 232.43
 100.00 8 38 28 2589.81 -29.88 66.31 263.22 90.96 9 21 38 1989.8 -29.43 57.54
 100.00 21 20 2 5049.11 28.88 221.64 259.74 81.95 22 44 11 4449.1 27.47 213.13
 110.00 9 50 4 2365.72 -34.15 49.19 263.11 91.62 10 29 29 1765.7 -33.55 40.00
 110.00 22 24 56 4845.96 33.11 205.48 259.00 80.97 23 45 42 4246.0 31.51 196.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1410 TRA-2.7109 TC3 -.1768 BAU .5689 SGT 1219.5 SGR 498.5 S63 39.7 ST 518.9 SR 437.4 S5 493.9
 RDE-1.1651 RRA .6649 RC3 -.0143 FAU .00984 RRT -.0678 RRF .0638 RTF -.7574 CRT .7038 CRS .7662 CST .9947
 FDE .5522 FRA 1.0715 FC3 -.0355 BSP 3346 SGB 1317.5 R23 -.0023 R13 .7575 LSA 794.9 MSA 269.2 SSA 16.0
 BDE 1.6308 BRA 2.7913 BC3 .1774 FSP -93 SG1 1220.1 S62 497.1 THA 178.10 EL1 628.3 EL2 256.7 ALF 38.14

LAUNCH DATE NOV 17 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

DISTANCE 177.228

RL 147.89 LAL -0.00 LOL 54.71 VL 20.443 GAL 25.60 AZL 87.61 HCA 58.54 SMA 96.39 ECC .64723 INC 2.3873 V1 30.126
 RP 107.51 LAP 2.04 LOP 113.23 VP 33.045 GAP -39.88 AZP 88.75 TAL 163.72 TAP 222.26 RCA 34.00 APO 158.78 V2 35.247
 RC 82.065 GL 2.95 GP -1.60 ZAL 51.89 ZAP 25.16 ETS 175.00 ZAE 126.33 ETE 186.72 ZAC 54.81 ETC 159.71 CLP 25.11

PLANETOCENTRIC CONIC

C3 222.270 VHL 14.909 DLA 3.86 RAL 1.47 RAD 6571.3 VEL 18.536 PTH 3.05 VHP 23.327 DPA -19.71 RAP 322.25 ECC 4.6580
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 13 40 2860.79 -28.32 86.85 263.67 90.29 8 1 28 2268.8 -27.97 78.20
 90.00 20 9 2 5273.32 27.00 238.44 259.68 81.12 21 36 56 4673.3 25.50 230.10
 100.00 8 36 49 2600.60 -29.89 67.12 263.65 90.54 9 20 9 2000.6 -29.49 58.33
 100.00 21 28 35 5016.74 28.55 219.29 259.40 80.75 22 52 11 4416.7 26.98 210.84
 110.00 9 49 12 2374.05 -34.16 49.84 263.58 91.24 10 28 46 1774.0 -33.61 40.64
 110.00 22 32 41 4816.06 32.77 203.22 258.55 79.67 23 52 57 4216.1 30.99 194.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1527 TRA-2.7417 TC3 -.1862 BAU .5555 SGT 1272.8 SGR 499.3 S63 42.6 ST 544.9 SR 437.2 S5 513.6
 RDE-1.1212 RRA .6427 RC3 -.0162 FAU .00990 RRT -.0688 RRF .0653 RTF -.7705 CRT .7025 CRS .7671 CST .9945
 FDE .5736 FRA 1.1064 FC3 -.0386 BSP 3531 SGB 1367.2 R23 -.0027 R13 .7706 LSA 823.2 MSA 272.1 SSA 16.1
 BDE 1.6080 BRA 2.8160 BC3 .1869 FSP -101 SG1 1273.3 S62 497.9 THA 178.17 EL1 647.7 EL2 261.8 ALF 36.24

LAUNCH DATE NOV 17 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

DISTANCE 183.366

RL 147.89 LAL -0.00 LOL 54.71 VL 20.929 GAL 24.54 AZL 87.52 HCA 61.79 SMA 97.82 ECC .62392 INC 2.4818 V1 30.126
 RP 107.50 LAP 2.19 LOP 116.48 VP 33.353 GAP -38.25 AZP 88.83 TAL 162.81 TAP 224.60 RCA 36.79 APO 158.86 V2 35.251
 RC 79.887 GL 3.29 GP -1.66 ZAL 50.86 ZAP 23.82 ETS 174.75 ZAE 126.56 ETE 187.19 ZAC 56.63 ETC 160.24 CLP 23.77

PLANETOCENTRIC CONIC

C3 206.033 VHL 14.354 DLA 4.58 RAL 2.29 RAD 6571.2 VEL 18.093 PTH 3.01 VHP 22.505 DPA -19.21 RAP 324.19 ECC 4.3908
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 11 29 2880.21 -28.32 87.69 264.00 89.87 7 59 29 2280.2 -28.03 79.03
 90.00 20 17 46 5239.35 26.62 236.03 259.31 79.97 21 45 5 4639.3 24.96 227.75
 100.00 8 34 58 2610.90 -29.89 67.88 264.00 90.14 9 18 29 2010.9 -29.55 59.09
 100.00 21 36 57 4983.89 28.17 216.93 258.99 79.56 23 0 1 4383.9 26.44 208.55
 110.00 9 48 9 2381.86 -34.17 50.45 263.96 90.88 10 27 51 1781.9 -33.67 41.24
 110.00 22 40 16 4785.70 32.37 200.94 258.04 78.37 24 0 1 4185.7 30.43 192.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1636 TRA-2.7709 TC3 -.1957 BAU .5414 SGT 1327.6 SGR 499.4 S63 45.7 ST 571.7 SR 436.5 S5 533.8
 RDE-1.0774 RRA .6201 RC3 -.0183 FAU .00998 RRT -.0698 RRF .0667 RTF -.7830 CRT .7013 CRS .7680 CST .9943
 FDE .5957 FRA 1.1422 FC3 -.0419 BSP 3734 SGB 1418.4 R23 -.0031 R13 .7831 LSA 852.4 MSA 274.5 SSA 16.3
 BDE 1.5858 BRA 2.8394 BC3 .1966 FSP -109 SG1 1328.2 S62 497.9 THA 178.25 EL1 668.2 EL2 266.2 ALF 34.36

LAUNCH DATE NOV 17 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 189.587

RL 147.89 LAL -.00 LOL 54.71 VL 21.389 GAL 23.52 AZL 87.43 MCA 65.04 SMA 99.25 ECC .60109 INC 2.5707 V1 30.126
 RP 107.49 LAP 2.33 LOP 119.73 VP 33.646 GAP -36.68 AZP 88.91 TAL 161.92 TAP 226.95 RCA 39.59 APO 158.90 V2 35.254
 RC 77.721 GL 3.65 GP -1.72 ZAL 49.88 ZAP 22.50 ETS 174.45 ZAE 126.86 ETE 187.68 ZAC 58.47 ETC 160.74 CLP 22.43

PLANETOCENTRIC CONIC

C3 191.012 VHL 13.821 CLA 5.31 RAL 3.07 RAD 6571.0 VEL 17.673 PTH 2.98 VHP 21.705 DPA -18.69 RAP 326.14 ECC 4.1436
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 9 6 2891.17 -28.31 88.49 264.25 89.47 7 57 17 2291.2 -28.09 79.83
 90.00 20 26 20 5204.86 26.19 233.59 258.88 78.82 21 53 5 4604.9 24.38 225.39
 100.00 8 32 57 2620.73 -29.89 68.61 264.27 89.75 9 16 38 2020.7 -29.61 59.82
 100.00 21 45 11 4950.53 27.74 214.54 258.53 78.38 23 7 41 4350.5 25.85 206.25
 110.00 9 46 56 2389.19 -34.18 51.02 264.25 90.54 10 26 45 1789.2 -33.73 41.81
 110.00 22 47 41 4754.83 31.93 198.64 257.48 77.08 24 6 56 4154.8 29.82 190.06

DIFFERENTIAL CORRECTIONS

TOE -1.1741 TRA -2.7983 TC3 -.2052 BAU .5267
 RDE -1.0338 RRA .5971 RC3 -.0205 FAU .01008
 FDE .6186 FRA 1.1790 FC3 -.0457 BSP 3950
 BOE 1.5644 BRA 2.8613 BC3 .2063 FSP -119

MID-COURSE EXECUTION ACCURACY

SGT 1384.3 SGR 498.7 SG3 49.1
 RRT -.0707 RRF .0681 RTF -.7950
 SGB 1471.4 R23 -.0036 R13 .7950
 SG1 1384.8 SG2 497.3 THA 178.32

ORBIT DETERMINATION ACCURACY

ST 599.5 SR 435.0 SS 554.6
 CRT .7001 CRS .7689 CST .9940
 LSA 882.9 MSA 276.4 SSA 16.4
 EL1 689.7 EL2 270.0 ALF 32.51

LAUNCH DATE NOV 17 1968

FLIGHT TIME 96.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 195.885

RL 147.89 LAL -.00 LOL 54.71 VL 21.823 GAL 22.56 AZL 87.34 MCA 68.28 SMA 100.66 ECC .57878 INC 2.6550 V1 30.126
 RP 107.48 LAP 2.47 LOP 122.97 VP 33.926 GAP -35.18 AZP 89.02 TAL 161.04 TAP 229.32 RCA 42.40 APO 158.92 V2 35.256
 RC 75.571 GL 4.02 GP -1.79 ZAL 48.95 ZAP 21.18 ETS 174.09 ZAE 127.22 ETE 188.20 ZAC 60.32 ETC 161.21 CLP 21.11

PLANETOCENTRIC CONIC

C3 177.117 VHL 13.309 CLA 6.03 RAL 3.80 RAD 6570.9 VEL 17.275 PTH 2.95 VHP 20.926 DPA -18.15 RAP 328.09 ECC 3.9149
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 6 32 2901.74 -28.30 89.26 264.43 89.09 7 54 53 2301.7 -28.13 80.60
 90.00 20 34 47 5169.80 25.70 231.14 258.40 77.69 22 0 56 4569.8 23.75 223.02
 100.00 8 30 44 2630.15 -29.89 69.31 264.45 89.38 9 14 34 2030.2 -29.65 60.52
 100.00 21 53 16 4916.62 27.25 212.14 258.01 77.20 23 15 12 4316.6 25.21 203.93
 110.00 9 45 31 2396.08 -34.18 51.56 264.47 90.22 10 25 27 1796.1 -33.77 42.34
 110.00 22 54 57 4723.45 31.42 196.33 256.86 75.80 24 13 41 4123.5 29.15 187.86

DIFFERENTIAL CORRECTIONS

TOE -1.1881 TRA -2.8278 TC3 -.2157 BAU .5136
 RDE -.9903 RRA .5739 RC3 -.0230 FAU .01018
 FDE .6431 FRA 1.2175 FC3 -.0497 BSP 4084
 BOE 1.5467 BRA 2.8855 BC3 .2169 FSP -128

MID-COURSE EXECUTION ACCURACY

SGT 1445.6 SGR 497.2 SG3 52.7
 RRT -.0708 RRF .0693 RTF -.8063
 SGB 1528.7 R23 -.0046 R13 .8063
 SG1 1446.1 SG2 495.8 THA 178.42

ORBIT DETERMINATION ACCURACY

ST 629.9 SR 432.8 SS 576.5
 CRT .6996 CRS .7699 CST .9938
 LSA 916.0 MSA 277.6 SSA 16.5
 EL1 713.9 EL2 272.9 ALF 30.61

LAUNCH DATE NOV 17 1968

FLIGHT TIME 98.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 202.253

RL 147.89 LAL -.00 LOL 54.71 VL 22.233 GAL 21.64 AZL 87.26 MCA 71.53 SMA 102.05 ECC .55704 INC 2.7356 V1 30.126
 RP 107.48 LAP 2.59 LOP 126.22 VP 34.193 GAP -33.73 AZP 89.13 TAL 160.19 TAP 231.72 RCA 45.21 APO 158.90 V2 35.258
 RC 73.439 GL 4.41 GP -1.86 ZAL 48.06 ZAP 19.89 ETS 173.65 ZAE 127.67 ETE 188.75 ZAC 62.19 ETC 161.65 CLP 19.80

PLANETOCENTRIC CONIC

C3 164.265 VHL 12.817 CLA 6.76 RAL 4.50 RAD 6570.8 VEL 16.899 PTH 2.91 VHP 20.169 DPA -17.60 RAP 330.04 ECC 3.7034
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 3 44 2911.95 -28.29 90.01 264.51 88.71 7 52 16 2312.0 -28.17 81.35
 90.00 20 43 5 5134.13 25.16 228.67 257.86 76.56 22 8 39 4534.1 -23.06 220.63
 100.00 8 28 18 2639.20 -29.88 69.99 264.55 89.03 9 12 17 2039.2 -29.69 61.19
 100.00 22 1 12 4882.12 26.70 209.72 257.44 76.04 23 22 35 4282.1 24.52 201.60
 110.00 9 43 55 2402.56 -34.18 52.07 264.60 89.92 10 23 57 1802.6 -33.82 42.84
 110.00 23 2 5 4691.52 30.87 194.01 256.19 74.53 24 20 17 4091.5 28.44 185.65

DIFFERENTIAL CORRECTIONS

TOE -1.2024 TRA -2.8561 TC3 -.2263 BAU .5002
 RDE -.9472 RRA .5506 RC3 -.0257 FAU .01029
 FDE .6688 FRA 1.2574 FC3 -.0542 BSP 4210
 BOE 1.5306 BRA 2.9087 BC3 .2278 FSP -138

MID-COURSE EXECUTION ACCURACY

SGT 1509.5 SGR 495.0 SG3 56.6
 RRT -.0708 RRF .0705 RTF -.8170
 SGB 1588.6 R23 -.0057 R13 .8171
 SG1 1510.0 SG2 493.6 THA 178.51

ORBIT DETERMINATION ACCURACY

ST 661.8 SR 429.9 SS 599.2
 CRT .6992 CRS .7709 CST .9937
 LSA 950.9 MSA 278.3 SSA 16.7
 EL1 739.7 EL2 275.0 ALF 28.77

LAUNCH DATE NOV 17 1968

FLIGHT TIME 100.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 208.687

RL 147.89 LAL -.00 LOL 54.71 VL 22.619 GAL 20.76 AZL 87.19 MCA 74.78 SMA 103.43 ECC .53591 INC 2.8132 V1 30.126
 RP 107.48 LAP 2.71 LOP 129.47 VP 34.446 GAP -32.34 AZP 89.26 TAL 159.35 TAP 234.13 RCA 48.00 APO 158.86 V2 35.259
 RC 71.328 GL 4.82 GP -1.95 ZAL 47.21 ZAP 18.60 ETS 173.13 ZAE 128.19 ETE 189.34 ZAC 64.08 ETC 162.07 CLP 18.50

PLANETOCENTRIC CONIC

C3 152.383 VHL 12.344 CLA 7.48 RAL 5.14 RAD 6570.7 VEL 16.544 PTH 2.88 VHP 19.433 DPA -17.03 RAP 331.99 ECC 3.5078
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 0 42 2921.88 -28.27 90.73 264.52 88.35 7 49 24 2321.9 -28.20 82.07
 90.00 20 51 17 5097.83 24.56 226.18 257.27 75.45 22 16 15 4497.8 22.32 218.22
 100.00 8 25 38 2647.94 -29.87 70.63 264.57 88.69 9 9 46 2047.9 -29.73 61.83
 100.00 22 9 2 4847.00 26.10 207.28 256.82 74.89 23 29 49 4247.0 23.77 199.26
 110.00 9 42 5 2408.69 -34.18 52.54 264.64 89.63 10 22 14 1808.7 -33.85 43.31
 110.00 23 9 5 4659.02 30.25 191.68 255.48 73.27 24 26 44 4059.0 27.67 183.44

DIFFERENTIAL CORRECTIONS

TOE -1.2287 TRA -2.8949 TC3 -.2404 BAU .4931
 RDE -.9043 RRA .5273 RC3 -.0286 FAU .01034
 FDE .6975 FRA 1.3005 FC3 -.0587 BSP 4045
 BOE 1.5256 BRA 2.9425 BC3 .2421 FSP -145

MID-COURSE EXECUTION ACCURACY

SGT 1585.6 SGR 492.0 SG3 60.9
 RRT -.0683 RRF .0710 RTF -.8267
 SGB 1660.1 R23 -.0086 R13 .8268
 SG1 1585.9 SG2 490.7 THA 178.66

ORBIT DETERMINATION ACCURACY

ST 700.6 SR 426.2 SS 624.2
 CRT .7009 CRS .7722 CST .9937
 LSA 992.3 MSA 277.8 SSA 16.9
 EL1 772.3 EL2 275.8 ALF 26.77

LAUNCH DATE NOV 17 1968

FLIGHT TIME 102.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 215.166

RL 147.89 LAL -0.00 LOL 54.71 VL 22.984 GAL 19.91 AZL 87.11 MCA 78.02 SMA 104.79 ECC .51533 INC 2.8884 VI 30.126
 RP 107.48 LAP 2.83 LOP 132.72 VP 34.687 GAP -30.99 AZP 89.40 TAL 158.54 TAP 236.57 RCA 50.79 APO 158.79 V2 35.259
 RC 69.241 GL 5.26 GP -2.04 ZAL 46.41 ZAP 17.32 ETS 172.48 ZAE 128.79 ETE 189.96 ZAC 65.97 ETC 162.47 CLP 17.20

PLANETOCENTRIC CONIC

C3 141.330 VHL 11.888 OLA 8.21 RAL 5.74 RAD 6570.5 VEL 16.207 PTH 2.84 VHP 18.714 DPA -16.46 RAP 333.94 ECC 3.3259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 57 25 2931.46 -28.25 91.43 264.44 88.00 7 46 17 2331.5 -28.23 82.77
 90.00 20 59 21 5060.80 23.91 223.66 256.62 74.35 22 23 42 4460.8 21.53 215.80
 100.00 8 22 44 2656.30 -29.85 71.26 264.50 88.36 9 7 0 2056.3 -29.76 62.45
 100.00 22 16 44 4811.19 25.45 204.83 256.14 73.76 23 36 55 4211.2 22.97 196.90
 110.00 9 40 2 2414.39 -34.18 52.99 264.60 89.37 10 20 16 1814.4 -33.89 43.76
 110.00 23 15 55 4625.87 29.58 189.33 254.71 72.03 24 33 1 4025.9 26.84 181.21

DIFFERENTIAL CORRECTIONS

TDE-1.0692 TRA-2.7451 TC3 -.2025 BAU .3873
 RDE -.8625 RRA .5029 RC3 -.0320 FAU .01170
 FDE .6998 FRA 1.3175 FC3 -.0717 BSP 8333
 BOE 1.3738 BRA 2.7908 BC3 .2050 FSP -211

MID-COURSE EXECUTION ACCURACY

SGT 1511.4 SGR 488.4 SG3 64.3
 RRT -.1037 RRF .0821 RTF -.8436
 SGB 1588.3 R23 .0153 R13 .8435
 SG1 1512.3 SG2 485.5 THA 177.86

ORBIT DETERMINATION ACCURACY

ST 653.1 SR 422.1 SS 627.9
 CRT .6702 CRS .7689 CST .9892
 LSA 958.3 MSA 283.8 SSA 15.7
 EL1 724.6 EL2 282.4 ALF 28.05

LAUNCH DATE NOV 17 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 221.721

RL 147.89 LAL -0.00 LOL 54.71 VL 23.327 GAL 19.11 AZL 87.04 MCA 81.27 SMA 106.12 ECC .49551 INC 2.9619 VI 30.126
 RP 107.48 LAP 2.93 LOP 135.97 VP 34.914 GAP -29.69 AZP 89.55 TAL 157.75 TAP 239.02 RCA 53.54 APO 158.71 V2 35.258
 RC 67.184 GL 5.71 GP -2.14 ZAL 45.65 ZAP 16.05 ETS 171.70 ZAE 129.48 ETE 190.63 ZAC 67.87 ETC 162.85 CLP 15.91

PLANETOCENTRIC CONIC

C3 131.211 VHL 11.455 OLA 8.94 RAL 6.31 RAD 6570.4 VEL 15.892 PTH 2.81 VHP 18.019 DPA -15.87 RAP 335.88 ECC 3.1594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 53 53 2941.09 -28.23 92.14 264.30 87.65 7 42 54 2341.1 -28.26 83.47
 90.00 21 7 24 5023.13 23.19 221.13 255.95 73.28 22 31 7 4423.1 20.68 213.36
 100.00 8 19 36 2664.67 -29.83 71.88 264.37 88.03 9 4 0 2064.7 -29.79 63.07
 100.00 22 24 22 4774.78 24.73 202.36 255.44 72.65 23 43 57 4174.8 22.12 194.53
 110.00 9 37 46 2420.03 -34.17 53.43 264.49 89.11 10 18 6 1820.0 -33.92 44.19
 110.00 23 22 41 4592.19 28.85 188.98 253.91 70.82 24 39 13 3992.2 25.96 178.99

DIFFERENTIAL CORRECTIONS

TDE-1.1958 TRA-2.8803 TC3 -.2442 BAU .4327
 RDE -.8200 RRA .4805 RC3 -.0352 FAU .01110
 FDE .7467 FRA 1.3789 FC3 -.0733 BSP 5776
 BOE 1.4500 BRA 2.9201 BC3 .2467 FSP -189

MID-COURSE EXECUTION ACCURACY

SGT 1672.6 SGR 483.7 SG3 69.9
 RRT -.0787 RRF .0771 RTF -.8478
 SGB 1741.2 R23 -.0035 R13 .8478
 SG1 1673.1 SG2 482.0 THA 178.56

ORBIT DETERMINATION ACCURACY

ST 741.3 SR 416.6 SS 666.7
 CRT .6911 CRS .7729 CST .9922
 LSA 1044.0 MSA 278.2 SSA 16.7
 EL1 803.7 EL2 277.7 ALF 24.32

LAUNCH DATE NOV 17 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 228.318

RL 147.89 LAL -0.00 LOL 54.71 VL 23.651 GAL 18.34 AZL 86.97 MCA 84.52 SMA 107.43 ECC .47630 INC 3.0341 VI 30.126
 RP 107.48 LAP 3.02 LOP 139.22 VP 35.130 GAP -28.44 AZP 89.71 TAL 156.99 TAP 241.50 RCA 56.26 APO 158.60 V2 35.257
 RC 65.159 GL 6.18 GP -2.25 ZAL 44.95 ZAP 14.79 ETS 170.72 ZAE 130.25 ETE 191.35 ZAC 69.79 ETC 163.21 CLP 14.62

PLANETOCENTRIC CONIC

C3 121.829 VHL 11.058 OLA 9.68 RAL 6.83 RAD 6570.3 VEL 15.594 PTH 2.78 VHP 17.341 DPA -15.28 RAP 337.82 ECC 3.0050
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 50 4 2950.59 -28.20 92.83 264.07 87.30 7 39 15 2350.6 -28.28 84.17
 90.00 21 15 20 4984.68 22.42 218.58 255.23 72.23 22 38 25 4384.7 19.78 210.90
 100.00 8 16 10 2672.88 -29.81 72.49 264.15 87.72 9 0 43 2072.9 -29.81 63.68
 100.00 22 31 55 4737.63 23.95 199.87 254.69 71.56 23 50 53 4137.6 21.21 192.15
 110.00 9 35 15 2425.42 -34.17 53.85 264.31 88.86 10 15 40 1825.4 -33.95 44.61
 110.00 23 29 20 4557.85 28.06 184.62 253.08 69.62 24 45 18 3957.8 25.03 176.76

DIFFERENTIAL CORRECTIONS

TDE-1.2197 TRA-2.9102 TC3 -.2571 BAU .4235
 RDE -.7784 RRA .4577 RC3 -.0388 FAU .01124
 FDE .7801 FRA 1.4269 FC3 -.0799 BSP 5681
 BOE 1.4470 BRA 2.9460 BC3 .2600 FSP -200

MID-COURSE EXECUTION ACCURACY

SGT 1752.6 SGR 478.2 SG3 75.3
 RRT -.0775 RRF .0781 RTF -.8561
 SGB 1816.7 R23 -.0065 R13 .8562
 SG1 1753.0 SG2 476.7 THA 178.69

ORBIT DETERMINATION ACCURACY

ST 782.7 SR 410.5 SS 694.4
 CRT .6930 CRS .7743 CST .9922
 LSA 1089.4 MSA 276.0 SSA 16.9
 EL1 839.6 EL2 275.9 ALF 22.54

LAUNCH DATE NOV 17 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 234.957

RL 147.89 LAL -0.00 LOL 54.71 VL 23.956 GAL 17.61 AZL 86.89 MCA 87.76 SMA 108.71 ECC .45777 INC 3.1054 VI 30.126
 RP 107.49 LAP 3.10 LOP 142.47 VP 35.334 GAP -27.24 AZP 89.88 TAL 156.25 TAP 244.01 RCA 58.94 APO 158.47 V2 35.254
 RC 63.173 GL 6.68 GP -2.36 ZAL 44.29 ZAP 13.54 ETS 169.50 ZAE 131.13 ETE 192.13 ZAC 71.70 ETC 163.55 CLP 13.34

PLANETOCENTRIC CONIC

C3 113.161 VHL 10.638 OLA 10.42 RAL 7.30 RAD 6570.1 VEL 15.313 PTH 2.74 VHP 16.682 DPA -14.68 RAP 339.76 ECC 2.8623
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 56 2960.12 -28.17 93.53 263.77 86.95 7 35 16 2360.1 -28.29 84.86
 90.00 21 23 14 4945.45 21.58 216.01 254.48 71.20 22 45 40 4345.5 18.81 208.43
 100.00 8 12 28 2681.07 -29.79 73.09 263.86 87.40 8 57 9 2081.1 -29.83 64.29
 100.00 22 39 24 4699.74 23.11 197.37 253.90 70.50 23 57 44 4099.7 20.24 189.75
 110.00 9 32 28 2430.71 -34.16 54.26 264.04 88.62 10 12 59 1830.7 -33.97 45.02
 110.00 23 35 53 4522.86 27.21 182.26 252.21 68.46 24 51 16 3922.9 24.04 174.53

DIFFERENTIAL CORRECTIONS

TDE-1.2337 TRA-2.9277 TC3 -.2669 BAU .4089
 RDE -.7374 RRA .4353 RC3 -.0426 FAU .01148
 FDE .8140 FRA 1.4755 FC3 -.0878 BSP 5826
 BOE 1.4372 BRA 2.9599 BC3 .2703 FSP -215

MID-COURSE EXECUTION ACCURACY

SGT 1826.1 SGR 472.0 SG3 81.1
 RRT -.0775 RRF .0800 RTF -.8644
 SGB 1886.1 R23 -.0083 R13 .8644
 SG1 1826.5 SG2 470.5 THA 178.77

ORBIT DETERMINATION ACCURACY

ST 820.5 SR 403.6 SS 722.1
 CRT .6933 CRS .7754 CST .9921
 LSA 1132.4 MSA 273.5 SSA 17.0
 EL1 872.5 EL2 273.5 ALF 20.98

LAUNCH DATE NOV 17 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 241.635

RL 147.89 LAL -0.00 LOL 54.71 VL 24.243 GAL 16.90 AZL 86.82 MCA 91.01 SMA 109.95 ECC .43991 INC 3.1765 V1 30.126
 RP 107.50 LAP 3.18 LOP 145.72 VP 35.526 GAP -26.07 AZP 90.06 TAL 155.53 TAP 246.54 RCA 61.58 APO 158.32 V2 35.251
 RC 61.231 GL 7.20 GP -2.50 ZAL 43.67 ZAP 12.31 ETS 167.96 ZAE 132.10 ETE 192.97 ZAC 73.63 ETC 163.88 CLP 12.05

PLANETOCENTRIC CONIC

C3 105.159 VHL 10.255 DLA 11.17 RAL 7.72 RAD 6570.0 VEL 15.050 PTH 2.71 VHP 16.041 DPA -14.08 RAP 341.69 ECC 2.7306
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 41 29 2969.81 -28.13 94.23 263.40 86.60 7 30 58 2369.8 -28.30 85.57
 90.00 21 31 6 4905.39 20.68 213.42 253.69 70.21 22 52 51 4305.4 17.79 205.93
 100.00 8 8 26 2689.35 -29.76 73.71 263.50 87.07 8 53 16 2089.4 -29.85 64.91
 100.00 22 46 50 4661.08 22.21 194.85 253.08 69.46 24 4 31 4061.1 19.22 187.34
 110.00 9 29 24 2435.99 -34.15 54.68 263.71 88.37 10 10 0 1836.0 -34.00 45.43
 110.00 23 42 21 4487.21 26.29 179.89 251.31 67.33 24 57 8 3887.2 22.99 172.29

DIFFERENTIAL CORRECTIONS

TDE-1.2407 TRA-2.9356 TC3 -.2738 BAU .3905
 RDE -.6968 RRA .4133 RC3 -.0468 FAU .01181
 FDE .8491 FRA 1.5252 FC3 -.0972 BSP 6142
 BOE 1.4230 BRA 2.9645 BC3 .2778 FSP -234

MID-COURSE EXECUTION ACCURACY

SGT 1895.0 SGR 465.0 SG3 87.2
 RRT -.0792 RRF .0829 RTF -.8724
 SGB 1951.2 R23 -.0094 R13 .8725
 SG1 1895.4 SG2 463.4 THA 178.82

ORBIT DETERMINATION ACCURACY

ST 855.8 SR 395.7 SS 750.2
 CRT .6925 CRS .7763 CST .9918
 LSA 1174.0 MSA 270.7 SSA 17.0
 EL1 903.2 EL2 270.5 ALF 19.58

LAUNCH DATE NOV 17 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 248.348

RL 147.89 LAL -0.00 LOL 54.71 VL 24.513 GAL 16.23 AZL 86.75 MCA 94.26 SMA 111.17 ECC .42274 INC 3.2477 V1 30.126
 RP 107.51 LAP 3.24 LOP 148.97 VP 35.708 GAP -24.94 AZP 90.24 TAL 154.85 TAP 249.10 RCA 64.17 APO 158.16 V2 35.248
 RC 59.338 GL 7.75 GP -2.64 ZAL 43.11 ZAP 11.09 ETS 165.98 ZAE 133.17 ETE 193.88 ZAC 75.55 ETC 164.19 CLP 10.77

PLANETOCENTRIC CONIC

C3 97.779 VHL 9.888 DLA 11.93 RAL 8.11 RAD 6569.9 VEL 14.803 PTH 2.68 VHP 15.418 DPA -13.48 RAP 343.62 ECC 2.6092
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 36 39 2979.78 -28.09 94.96 262.96 86.24 7 26 19 2379.8 -28.31 86.30
 90.00 21 38 57 4864.47 19.71 210.81 252.88 69.25 23 0 2 4264.5 16.71 203.41
 100.00 8 4 4 2697.85 -29.73 74.34 263.08 86.74 8 49 2 2097.9 -29.87 65.54
 100.00 22 54 14 4621.64 21.25 192.32 252.24 68.46 24 11 15 4021.6 18.13 184.91
 110.00 9 26 3 2441.36 -34.14 55.09 263.31 88.13 10 6 44 1841.4 -34.02 45.85
 110.00 23 48 45 4450.90 25.32 177.52 250.39 66.23 25 2 56 3850.9 21.89 170.04

DIFFERENTIAL CORRECTIONS

TDE-1.2549 TRA-2.9479 TC3 -.2828 BAU .3757
 RDE -.6568 RRA .3920 RC3 -.0512 FAU .01211
 FDE .8881 FRA 1.5788 FC3 -.1072 BSP 6292
 BOE 1.4164 BRA 2.9738 BC3 .2874 FSP -253

MID-COURSE EXECUTION ACCURACY

SGT 1972.2 SGR 457.2 SG3 94.0
 RRT -.0798 RRF .0858 RTF -.8798
 SGB 2024.4 R23 -.0116 R13 .8799
 SG1 1972.5 SG2 455.6 THA 178.88

ORBIT DETERMINATION ACCURACY

ST 896.3 SR 386.9 SS 780.8
 CRT .6930 CRS .7774 CST .9917
 LSA 1221.1 MSA 266.9 SSA 17.1
 EL1 939.2 EL2 266.2 ALF 18.16

LAUNCH DATE NOV 17 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 255.091

RL 147.89 LAL -0.00 LOL 54.71 VL 24.768 GAL 15.58 AZL 86.68 MCA 97.50 SMA 112.35 ECC .40625 INC 3.3195 V1 30.126
 RP 107.52 LAP 3.29 LOP 152.22 VP 35.878 GAP -23.85 AZP 90.43 TAL 154.19 TAP 251.69 RCA 66.70 APO 157.99 V2 35.243
 RC 57.501 GL 8.33 GP -2.80 ZAL 42.60 ZAP 9.88 ETS 163.40 ZAE 134.34 ETE 194.89 ZAC 77.48 ETC 164.48 CLP 9.48

PLANETOCENTRIC CONIC

C3 90.977 VHL 9.538 DLA 12.71 RAL 8.44 RAD 6569.8 VEL 14.571 PTH 2.64 VHP 14.813 DPA -12.89 RAP 345.54 ECC 2.4972
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 27 2990.17 -28.04 95.72 262.46 85.86 7 21 17 2390.2 -28.32 87.06
 90.00 21 46 50 4822.64 18.68 208.17 252.04 68.32 23 7 12 4222.6 15.57 200.87
 100.00 7 59 21 2706.70 -29.69 74.99 262.58 86.40 8 44 28 2106.7 -29.88 66.19
 100.00 23 1 37 4581.36 20.22 189.77 251.38 67.50 24 17 58 3981.4 16.99 182.46
 110.00 9 22 22 2446.92 -34.12 55.53 262.84 87.87 10 3 9 1846.9 -34.04 46.28
 110.00 23 55 5 4413.90 24.28 175.14 249.45 65.17 25 8 39 3813.9 20.73 167.80

DIFFERENTIAL CORRECTIONS

TDE-1.2637 TRA-2.9517 TC3 -.2888 BAU .3578
 RDE -.6174 RRA .3714 RC3 -.0558 FAU .01249
 FDE .9291 FRA 1.6341 FC3 -.1188 BSP 6583
 BOE 1.4064 BRA 2.9750 BC3 .2941 FSP -275

MID-COURSE EXECUTION ACCURACY

SGT 2045.3 SGR 448.5 SG3 101.3
 RRT -.0823 RRF .0900 RTF -.8870
 SGB 2093.9 R23 -.0133 R13 .8871
 SG1 2045.7 SG2 446.9 THA 178.91

ORBIT DETERMINATION ACCURACY

ST 934.8 SR 377.2 SS 812.1
 CRT .6925 CRS .7782 CST .9915
 LSA 1267.4 MSA 262.8 SSA 17.1
 EL1 973.6 EL2 261.3 ALF 16.86

LAUNCH DATE NOV 17 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 261.859

RL 147.89 LAL -0.00 LOL 54.71 VL 25.006 GAL 14.96 AZL 86.61 MCA 100.74 SMA 113.49 ECC .39044 INC 3.3923 V1 30.126
 RP 107.54 LAP 3.33 LOP 155.47 VP 36.038 GAP -22.80 AZP 90.63 TAL 153.57 TAP 254.31 RCA 69.18 APO 157.80 V2 35.238
 RC 55.726 GL 8.94 GP -2.98 ZAL 42.14 ZAP 8.71 ETS 159.95 ZAE 135.63 ETE 196.00 ZAC 79.41 ETC 164.76 CLP 8.19

PLANETOCENTRIC CONIC

C3 84.713 VHL 9.204 DLA 13.49 RAL 8.72 RAD 6569.7 VEL 14.355 PTH 2.61 VHP 14.225 DPA -12.30 RAP 347.45 ECC 2.3942
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 25 49 3001.16 -27.98 96.51 261.89 85.46 7 15 50 2401.2 -28.32 87.87
 90.00 21 54 45 4779.86 17.58 205.51 251.18 67.44 23 14 25 4179.9 14.37 198.30
 100.00 7 54 13 2716.03 -29.65 75.68 262.03 86.04 8 39 29 2116.0 -29.89 66.89
 100.00 23 9 1 4540.21 19.13 187.20 250.49 66.58 24 24 41 3940.2 15.80 179.99
 110.00 9 18 21 2452.81 -34.11 55.99 262.32 87.60 9 59 14 1852.8 -34.07 46.74
 110.00 0 5 19 4376.20 23.18 172.76 248.50 64.15 1 18 15 3776.2 19.52 165.55

DIFFERENTIAL CORRECTIONS

TDE-1.2740 TRA-2.9540 TC3 -.2943 BAU .3404
 RDE -.5784 RRA .3517 RC3 -.0608 FAU .01290
 FDE .9736 FRA 1.6928 FC3 -.1319 BSP 6843
 BOE 1.3992 BRA 2.9749 BC3 .3005 FSP -298

MID-COURSE EXECUTION ACCURACY

SGT 2121.0 SGR 439.2 SG3 109.3
 RRT -.0855 RRF .0933 RTF -.8938
 SGB 2166.0 R23 -.0155 R13 .8939
 SG1 2121.3 SG2 437.5 THA 178.94

ORBIT DETERMINATION ACCURACY

ST 975.2 SR 366.4 SS 845.4
 CRT .6921 CRS .7788 CST .9914
 LSA 1316.5 MSA 258.0 SSA 17.1
 EL1 1010.0 EL2 255.3 ALF 15.60

LAUNCH DATE NOV 17 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 268.649

RL 147.89 LAL -.00 LOL 54.71 VL 25.230 GAL 14.37 AZL 86.53 MCA 103.99 SMA 114.59 ECC .37530 INC 3.4667 V1 30.126
 RP 107.56 LAP 3.36 LOP 158.72 VP 36.189 GAP -21.77 AZP 90.84 TAL 152.97 TAP 256.96 RCA 71.58 APO 157.60 V2 35.232
 RC 54.021 GL 9.57 GP -3.18 ZAL 41.74 ZAP 7.58 ETS 155.26 ZAE 137.02 ETE 197.23 ZAC 81.33 ETC 165.04 CLP 6.88

PLANETOCENTRIC CONIC

C3 78.949 VHL 8.885 DLA 14.29 RAL 8.96 RAD 6569.5 VEL 14.153 PTH 2.58 VHP 13.654 DPA -11.73 RAP 349.36 ECC 2.2993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 43 3012.91 -27.91 97.37 261.26 85.04 7 9 55 2412.9 -28.31 88.72
 90.00 22 2 44 4736.04 16.42 202.82 250.31 66.60 23 21 40 4136.0 13.11 195.70
 100.00 7 48 40 2726.03 -29.60 76.42 261.42 85.65 8 34 6 2126.0 -29.89 67.63
 100.00 23 16 28 4498.15 17.97 184.62 249.60 65.70 24 31 26 3898.2 14.54 177.50
 110.00 9 13 57 2459.15 -34.09 56.48 261.74 87.31 9 54 57 1859.2 -34.09 47.24
 110.00 0 11 36 4337.79 22.02 170.39 247.53 63.17 1 23 54 3737.8 18.25 163.29

DIFFERENTIAL CORRECTIONS

TDE-1.2839 TRA-2.9524 TC3 -.2905 BAU .3226
 RDE -.5400 RRA .3330 RC3 -.0660 FAU .01337
 FDE 1.0219 FRA 1.7546 FC3 -.1466 BSP 7130
 BDE 1.3928 BRA 2.9711 BC3 .3057 FSP -325

MID-COURSE EXECUTION ACCURACY

SGT 2196.9 SGR 429.0 SG3 118.0
 RRT -.0901 RRF .1021 RTF -.9002
 SGB 2238.4 R23 -.0179 R13 .9003
 SG1 2197.2 SG2 427.2 THA 178.95

ORBIT DETERMINATION ACCURACY

ST 1016.4 SR 354.5 SS 880.4
 CRT .6915 CRS .7791 CST .9912
 LSA 1367.4 MSA 252.8 SSA 17.1
 EL1 1047.4 EL2 248.5 ALF 14.39

LAUNCH DATE NOV 17 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 275.457

RL 147.89 LAL -.00 LOL 54.71 VL 25.441 GAL 13.80 AZL 86.46 MCA 107.23 SMA 115.66 ECC .36083 INC 3.5432 V1 30.126
 RP 107.58 LAP 3.38 LOP 161.97 VP 36.329 GAP -20.79 AZP 91.05 TAL 152.41 TAP 259.64 RCA 73.92 APO 157.39 V2 35.226
 RC 52.393 GL 10.25 GP -3.41 ZAL 41.39 ZAP 6.53 ETS 148.72 ZAE 138.52 ETE 198.61 ZAC 83.25 ETC 165.30 CLP 5.57

PLANETOCENTRIC CONIC

C3 73.652 VHL 8.582 DLA 15.10 RAL 9.15 RAD 6569.4 VEL 13.964 PTH 2.55 VHP 13.099 DPA -11.17 RAP 351.25 ECC 2.2121
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 5 3025.64 -27.84 98.29 260.58 84.58 7 3 31 2425.6 -28.30 89.66
 90.00 22 10 51 4691.12 15.18 200.10 249.44 65.81 23 29 2 4091.1 11.79 193.07
 100.00 7 42 38 2736.87 -29.55 77.22 260.75 85.24 8 28 15 2136.9 -29.89 68.44
 100.00 23 25 59 4455.12 16.74 182.01 248.70 64.87 24 38 15 3855.1 13.22 174.99
 110.00 9 9 10 2466.11 -34.07 57.02 261.11 86.99 9 50 16 1866.1 -34.11 47.78
 110.00 0 17 53 4298.65 20.80 168.01 246.56 62.24 1 29 31 3698.6 16.92 161.03

DIFFERENTIAL CORRECTIONS

TDE-1.2952 TRA-2.9488 TC3 -.3017 BAU .3053
 RDE -.5019 RRA .3155 RC3 -.0714 FAU .01388
 FDE 1.0748 FRA 1.8205 FC3 -.1631 BSP 7395
 BDE 1.3890 BRA 2.9657 BC3 .3100 FSP -353

MID-COURSE EXECUTION ACCURACY

SGT 2274.6 SGR 418.2 SG3 127.5
 RRT -.0964 RRF .1110 RTF -.9063
 SGB 2312.7 R23 -.0207 R13 .9064
 SG1 2275.0 SG2 416.2 THA 178.95

ORBIT DETERMINATION ACCURACY

ST 1059.3 SR 341.5 SS 917.8
 CRT .6905 CRS .7790 CST .9911
 LSA 1421.2 MSA 247.0 SSA 17.1
 EL1 1086.6 EL2 240.8 ALF 13.21

LAUNCH DATE NOV 17 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 282.280

RL 147.89 LAL -.00 LOL 54.71 VL 25.638 GAL 13.26 AZL 86.38 MCA 110.47 SMA 116.68 ECC .34702 INC 3.6224 V1 30.126
 RP 107.60 LAP 3.39 LOP 165.22 VP 36.461 GAP -19.83 AZP 91.27 TAL 151.88 TAP 262.35 RCA 76.19 APO 157.17 V2 35.219
 RC 50.852 GL 10.96 GP -3.66 ZAL 41.10 ZAP 5.60 ETS 139.53 ZAE 140.13 ETE 200.18 ZAC 85.17 ETC 165.56 CLP 4.25

PLANETOCENTRIC CONIC

C3 68.790 VHL 8.294 DLA 15.93 RAL 9.28 RAD 6569.3 VEL 13.789 PTH 2.52 VHP 12.561 DPA -10.64 RAP 353.14 ECC 2.1321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 5 54 3039.60 -27.74 99.30 259.84 84.09 6 56 33 2439.6 -28.27 90.68
 90.00 22 19 8 4644.98 13.88 197.34 248.56 65.07 23 36 33 4045.0 10.40 190.39
 100.00 7 36 4 2748.77 -29.47 78.10 260.03 84.78 8 21 53 2148.8 -29.89 69.32
 100.00 23 31 38 4411.05 15.45 179.37 247.79 64.09 24 45 9 3811.0 11.84 172.44
 110.00 9 3 57 2473.84 -34.04 57.63 260.44 86.63 9 45 11 1873.8 -34.13 48.38
 110.00 0 24 11 4258.74 19.52 165.62 245.59 61.36 1 35 10 3658.7 15.54 158.76

DIFFERENTIAL CORRECTIONS

TDE-1.3070 TRA-2.9423 TC3 -.3036 BAU .2881
 RDE -.4643 RRA .2993 RC3 -.0771 FAU .01443
 FDE 1.1328 FRA 1.8906 FC3 -.1816 BSP 7666
 BDE 1.3870 BRA 2.9574 BC3 .3132 FSP -384

MID-COURSE EXECUTION ACCURACY

SGT 2353.0 SGR 406.8 SG3 137.9
 RRT -.1050 RRF .1226 RTF -.9121
 SGB 2387.9 R23 -.0240 R13 .9122
 SG1 2353.4 SG2 404.5 THA 178.93

ORBIT DETERMINATION ACCURACY

ST 1103.4 SR 327.2 SS 957.5
 CRT .6890 CRS .7783 CST .9910
 LSA 1477.6 MSA 240.8 SSA 17.1
 EL1 1127.3 EL2 232.1 ALF 12.07

LAUNCH DATE NOV 17 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 289.112

RL 147.89 LAL -.00 LOL 54.71 VL 25.823 GAL 12.74 AZL 86.29 MCA 113.71 SMA 117.66 ECC .33385 INC 3.7050 V1 30.126
 RP 107.62 LAP 3.39 LOP 168.46 VP 36.584 GAP -18.90 AZP 91.49 TAL 151.38 TAP 265.09 RCA 78.38 APO 156.95 V2 35.211
 RC 49.405 GL 11.71 GP -3.94 ZAL 40.87 ZAP 4.90 ETS 126.77 ZAE 141.84 ETE 201.96 ZAC 87.08 ETC 165.81 CLP 2.91

PLANETOCENTRIC CONIC

C3 64.333 VHL 8.021 DLA 16.78 RAL 9.37 RAD 6569.2 VEL 13.627 PTH 2.49 VHP 12.039 DPA -10.13 RAP 355.02 ECC 2.0588
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 58 3 3055.07 -27.63 100.42 259.06 83.54 6 48 58 2455.1 -28.24 91.81
 90.00 22 27 38 4597.50 12.50 194.54 247.69 64.58 23 44 15 3997.5 8.95 187.66
 100.00 7 28 56 2761.98 -29.39 79.08 259.27 84.27 8 14 58 2162.0 -29.87 70.30
 100.00 23 39 26 4365.82 14.09 176.71 246.89 63.36 24 52 12 3765.8 10.40 169.86
 110.00 8 58 15 2482.55 -34.00 58.30 259.72 86.23 9 39 37 1882.5 -34.15 49.06
 110.00 0 30 32 4218.02 18.17 163.23 244.63 60.54 1 40 50 3618.0 14.11 156.47

DIFFERENTIAL CORRECTIONS

TDE-1.3144 TRA-2.9274 TC3 -.3007 BAU .2683
 RDE -.4269 RRA .2847 RC3 -.0830 FAU .01511
 FDE 1.1950 FRA 1.9637 FC3 -.2034 BSP 8060
 BDE 1.3820 BRA 2.9412 BC3 .3119 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 2425.9 SGR 394.8 SG3 149.2
 RRT -.1184 RRF .1385 RTF -.9177
 SGB 2457.8 R23 -.0270 R13 .9178
 SG1 2426.4 SG2 391.9 THA 178.87

ORBIT DETERMINATION ACCURACY

ST 1145.1 SR 311.5 SS 998.8
 CRT .6857 CRS .7764 CST .9908
 LSA 1533.2 MSA 234.4 SSA 16.9
 EL1 1165.6 EL2 222.8 ALF 10.97

LAUNCH DATE NOV 17 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 295.953

RL 147.89 LAL -0.00 LOL 54.71 VL 25.996 GAL 12.25 AZL 86.21 MCA 116.95 SMA 118.61 ECC .32131 INC 3.7918 V1 30.126
 RP 107.65 LAP 3.38 LOP 171.71 VP 36.698 GAP -18.00 AZP 91.72 TAL 150.92 TAP 267.87 RCA 80.50 APO 156.72 V2 35.202
 RC 48.064 GL 12.50 GP -4.26 ZAL 40.71 ZAP 4.53 ETS 110.44 ZAE 143.65 ETE 204.00 ZAC 88.97 ETC 166.06 CLP 1.55

PLANETOCENTRIC CONIC

C3 60.256 VHL 7.762 DLA 17.66 RAL 9.39 RAD 6569.1 VEL 13.476 PTH 2.46 VHP 11.533 DPA -9.67 RAP 356.90 ECC 1.9917
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 28 3072.40 -27.49 101.67 258.23 82.93 6 40 41 2472.4 -28.18 93.07
 90.00 22 36 26 4548.50 11.04 191.68 246.84 63.76 23 52 14 3948.5 7.42 184.87
 100.00 7 21 8 2776.80 -29.28 80.16 258.47 83.71 8 7 25 2176.8 -29.85 71.40
 100.00 23 47 27 4319.33 12.65 174.00 246.00 62.69 24 59 27 3719.3 8.89 167.23
 110.00 8 52 1 2492.44 -33.95 59.07 258.97 85.78 9 33 34 1892.4 -34.16 49.83
 110.00 0 36 59 4176.45 16.76 160.83 243.67 59.76 1 46 36 3576.4 12.62 154.17

DIFFERENTIAL CORRECTIONS

TDE-1.3296 TRA-2.9156 TC3 -.2997 BAU .2519
 RDE -.3896 RRA .2718 RC3 -.0892 FAU .01577
 FDE 1.2657 FRA 2.0437 FC3 -.2266 BSP 8297
 BOE 1.3855 BRA 2.9282 BC3 .3127 FSP -459

MID-COURSE EXECUTION ACCURACY

SGT 2506.0 SGR 382.4 SG3 161.7
 RRT -.1344 RRF .1584 RTF -.9229
 SGB 2535.0 R23 -.0317 R13 .9230
 SG1 2506.5 SG2 378.8 THA 178.80

ORBIT DETERMINATION ACCURACY

ST 1192.6 SR 294.5 SS 1044.3
 CRT .6820 CRS .7732 CST .9908
 LSA 1596.1 MSA 227.3 SSA 16.8
 EL1 1209.9 EL2 212.3 ALF 9.86

LAUNCH DATE NOV 17 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 302.797

RL 147.89 LAL -0.00 LOL 54.71 VL 26.158 GAL 11.78 AZL 86.12 MCA 120.18 SMA 119.51 ECC .30940 INC 3.8836 V1 30.126
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.804 GAP -17.13 AZP 91.95 TAL 150.49 TAP 270.67 RCA 82.53 APO 156.49 V2 35.194
 RC 46.839 GL 13.34 GP -4.63 ZAL 40.60 ZAP 4.63 ETS 92.66 ZAE 145.52 ETE 206.37 ZAC 90.86 ETC 166.32 CLP .17

PLANETOCENTRIC CONIC

C3 56.532 VHL 7.519 DLA 18.56 RAL 9.37 RAD 6569.0 VEL 13.338 PTH 2.44 VHP 11.042 DPA -9.24 RAP 358.76 ECC 1.9304
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 40 2 3091.98 -27.32 103.08 257.35 82.24 6 31 34 2492.0 -28.11 94.50
 90.00 22 45 38 4497.72 9.49 188.75 246.00 63.20 24 0 35 3897.7 5.82 181.99
 100.00 7 12 35 2793.56 -29.15 81.39 257.62 83.08 7 59 9 2193.6 -29.80 72.65
 100.00 23 55 46 4271.37 11.14 171.25 245.13 62.08 25 6 58 3671.4 7.32 164.54
 110.00 8 45 12 2503.78 -33.89 59.95 258.19 85.26 9 26 56 1903.8 -34.18 50.72
 110.00 0 43 34 4133.92 15.29 158.42 242.73 59.05 1 52 28 3533.9 11.07 151.85

DIFFERENTIAL CORRECTIONS

TDE-1.3336 TRA-2.8879 TC3 -.2906 BAU .2312
 RDE -.3521 RRA .2611 RC3 -.0956 FAU .01662
 FDE 1.3416 FRA 2.1265 FC3 -.2545 BSP 8749
 BOE 1.3793 BRA 2.8997 BC3 .3059 FSP -505

MID-COURSE EXECUTION ACCURACY

SGT 2571.6 SGR 369.7 SG3 175.2
 RRT -.1595 RRF .1860 RTF -.9280
 SGB 2598.0 R23 -.0354 R13 .9281
 SG1 2572.3 SG2 364.9 THA 178.66

ORBIT DETERMINATION ACCURACY

ST 1232.0 SR 275.6 SS 1091.2
 CRT .6740 CRS .7675 CST .9906
 LSA 1654.0 MSA 220.7 SSA 16.6
 EL1 1246.4 EL2 201.3 ALF 8.81

LAUNCH DATE NOV 17 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 309.643

RL 147.89 LAL -0.00 LOL 54.71 VL 26.310 GAL 11.33 AZL 86.02 MCA 123.42 SMA 120.37 ECC .29809 INC 3.9816 V1 30.126
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.903 GAP -16.29 AZP 92.20 TAL 150.10 TAP 273.51 RCA 84.49 APO 156.25 V2 35.184
 RC 45.742 GL 14.22 GP -5.04 ZAL 40.57 ZAP 5.19 ETS 76.89 ZAE 147.45 ETE 209.15 ZAC 92.73 ETC 166.58 CLP -1.23

PLANETOCENTRIC CONIC

C3 53.141 VHL 7.290 DLA 19.50 RAL 9.28 RAD 6568.9 VEL 13.210 PTH 2.41 VHP 10.567 DPA -8.87 RAP .62 ECC 1.8746
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 37 3114.36 -27.10 104.68 256.44 81.46 6 21 32 2514.4 -28.00 96.13
 90.00 22 55 20 4444.83 7.86 185.72 245.19 62.71 24 9 25 3844.8 4.14 179.02
 100.00 7 3 10 2812.70 -28.99 82.79 256.74 82.36 7 50 3 2212.7 -29.74 74.07
 100.00 8 8 25 4221.72 9.54 168.42 244.29 61.54 1 18 46 3621.7 5.66 161.78
 110.00 0 37 44 2516.85 -33.81 60.97 257.38 84.67 9 19 41 1916.9 -34.18 51.74
 110.00 0 50 20 4090.33 13.75 155.98 241.81 58.39 1 58 31 3490.3 9.47 149.50

DIFFERENTIAL CORRECTIONS

TDE-1.3468 TRA-2.8668 TC3 -.2805 BAU .2121
 RDE -.3144 RRA .2523 RC3 -.1024 FAU .01755
 FDE 1.4262 FRA 2.2153 FC3 -.2859 BSP 9163
 BOE 1.3830 BRA 2.8779 BC3 .2986 FSP -556

MID-COURSE EXECUTION ACCURACY

SGT 2645.9 SGR 357.2 SG3 190.1
 RRT -.1907 RRF .2210 RTF -.9328
 SGB 2670.0 R23 -.0408 R13 .9330
 SG1 2646.8 SG2 350.6 THA 178.50

ORBIT DETERMINATION ACCURACY

ST 1278.6 SR 255.1 SS 1141.7
 CRT .6634 CRS .7586 CST .9905
 LSA 1719.7 MSA 213.6 SSA 16.3
 EL1 1290.0 EL2 189.2 ALF 7.71

LAUNCH DATE NOV 17 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 316.487

RL 147.89 LAL -0.00 LOL 54.71 VL 26.451 GAL 10.90 AZL 85.91 MCA 126.65 SMA 121.19 ECC .28738 INC 4.0872 V1 30.126
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.994 GAP -15.47 AZP 92.44 TAL 149.74 TAP 276.39 RCA 86.36 APO 156.02 V2 35.174
 RC 44.782 GL 15.17 GP -5.52 ZAL 40.61 ZAP 6.13 ETS 64.93 ZAE 149.38 ETE 212.42 ZAC 94.58 ETC 166.85 CLP -2.66

PLANETOCENTRIC CONIC

C3 50.061 VHL 7.075 DLA 20.46 RAL 9.12 RAD 6568.8 VEL 13.093 PTH 2.39 VHP 10.108 DPA -8.57 RAP 2.47 ECC 1.8239
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 0 3140.18 -26.83 106.52 255.47 80.58 6 10 21 2540.2 -27.86 98.00
 90.00 23 5 44 4389.33 6.11 182.58 244.42 62.30 24 18 54 3789.3 2.36 175.91
 100.00 6 52 44 2834.74 -28.78 84.40 255.82 81.54 7 39 59 2234.7 -29.65 75.70
 100.00 0 17 38 4170.01 7.85 165.52 243.48 61.06 1 27 8 3570.0 3.93 158.92
 110.00 8 29 30 2532.01 -33.71 62.14 256.55 83.98 9 11 42 1932.0 -34.18 52.92
 110.00 0 57 22 4045.50 12.13 153.51 240.91 57.80 2 4 47 3445.5 7.79 147.10

DIFFERENTIAL CORRECTIONS

TDE-1.3423 TRA-2.8218 TC3 -.2544 BAU .1853
 RDE -.2759 RRA .2465 RC3 -.1093 FAU .01885
 FDE 1.5146 FRA 2.3038 FC3 -.3260 BSP 9959
 BOE 1.3704 BRA 2.8325 BC3 .2769 FSP -624

MID-COURSE EXECUTION ACCURACY

SGT 2694.4 SGR 345.3 SG3 206.0
 RRT -.2376 RRF .2692 RTF -.9379
 SGB 2716.4 R23 -.0441 R13 .9381
 SG1 2695.7 SG2 335.2 THA 178.23

ORBIT DETERMINATION ACCURACY

ST 1310.4 SR 232.4 SS 1191.5
 CRT .6440 CRS .7435 CST .9902
 LSA 1774.1 MSA 207.5 SSA 15.8
 EL1 1319.0 EL2 176.6 ALF 6.64

LAUNCH DATE NOV 17 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 323.340

RL 147.89 LAL -0.00 LOL 54.71 VL 26.583 GAL 10.50 AZL 85.80 HCA 129.88 SMA 121.97 ECC .27729 INC 4.2019 V1 30.126
 RP 107.77 LAP 3.22 LOP 184.67 VP 37.079 GAP -14.68 AZP 92.70 TAL 149.41 TAP 279.29 RCA 88.15 APO 155.79 V2 35.164
 RC 43.971 GL 16.17 GP -6.07 ZAL 40.71 ZAP 7.34 ETS 56.57 ZAE 151.28 ETE 216.28 ZAC 96.43 ETC 167.15 CLP -4.12

PLANETOCENTRIC CONIC

C3 47.302 VHL 6.878 DLA 21.47 RAL 8.92 RAD 6568.8 VEL 12.987 PTH 2.37 VHP 9.665 DPA -8.34 RAP 4.32 ECC 1.7785
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 59 3170.48 -26.47 108.67 254.48 79.56 5 57 49 2570.5 -27.65 100.20
 90.00 23 17 6 4330.70 4.25 179.28 243.72 61.98 24 29 17 3730.7 .46 172.64
 100.00 6 41 7 2860.48 -28.50 86.26 254.88 80.59 7 28 48 2260.5 -29.51 77.60
 100.00 0 27 35 4115.94 6.06 162.50 242.73 60.67 1 36 11 3515.9 2.10 155.95
 110.00 8 20 26 2549.79 -33.58 63.51 255.73 83.18 9 2 55 1949.8 -34.16 54.31
 110.00 1 4 46 3999.39 10.45 151.00 240.06 57.27 2 11 25 3399.4 6.06 144.66

DIFFERENTIAL CORRECTIONS

TDE-1.5098 TRA-2.9442 TC3 -.3675 BAU .2440
 RDE -.2374 RRA .2426 RC3 -.1176 FAU .01708
 FDE 1.6848 FRA 2.4704 FC3 -.3127 BSP 6691
 BDE 1.5283 BRA 2.9542 BC3 .3859 FSP -558

MID-COURSE EXECUTION ACCURACY

SGT 2963.8 SGR 335.3 SG3 229.3
 RRT -.2432 RRF .3058 RTF -.9377
 SGB 2982.7 R23 -.0773 R13 .9379
 SGI 2965.0 SG2 325.1 THA 178.40

ORBIT DETERMINATION ACCURACY

ST 1485.7 SR 208.3 SS 1296.5
 CRT .6376 CRS .7246 CST .9927
 LSA 1973.4 MSA 192.6 SSA 17.1
 EL1 1491.7 EL2 159.8 ALF 5.17

LAUNCH DATE NOV 17 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 330.160

RL 147.89 LAL -0.00 LOL 54.71 VL 26.706 GAL 10.11 AZL 85.67 HCA 133.11 SMA 122.71 ECC .26769 INC 4.3280 V1 30.126
 RP 107.80 LAP 3.16 LOP 187.90 VP 37.157 GAP -13.91 AZP 92.96 TAL 149.12 TAP 282.23 RCA 89.86 APO 155.56 V2 35.153
 RC 43.319 GL 17.24 GP -6.72 ZAL 40.91 ZAP 8.76 ETS 50.85 ZAE 153.07 ETE 220.85 ZAC 98.25 ETC 167.47 CLP -5.63

PLANETOCENTRIC CONIC

C3 44.792 VHL 6.693 DLA 22.53 RAL 8.62 RAD 6568.7 VEL 12.890 PTH 2.35 VHP 9.236 DPA -8.21 RAP 6.17 ECC 1.7372
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 2 3206.34 -26.00 111.19 253.41 78.38 5 43 28 2606.3 -27.35 102.78
 90.00 23 29 43 4267.48 2.22 175.74 243.08 61.76 24 40 50 3667.5 -1.58 169.12
 100.00 6 27 56 2890.64 -28.15 88.43 253.88 79.50 7 16 7 2290.6 -29.31 79.82
 100.00 0 38 25 4058.41 4.13 159.32 242.02 60.37 1 46 3 3458.4 .15 152.79
 110.00 8 10 16 2570.51 -33.40 65.10 254.86 82.25 8 53 6 1970.5 -34.11 55.93
 110.00 1 12 35 3951.29 8.67 148.42 239.24 56.80 2 18 26 3351.3 4.24 142.13

DIFFERENTIAL CORRECTIONS

TDE-1.4479 TRA-2.8305 TC3 -.2858 BAU .1868
 RDE -.1954 RRA .2439 RC3 -.1250 FAU .01969
 FDE 1.7746 FRA 2.5477 FC3 -.3806 BSP 8961
 BDE 1.4610 BRA 2.8409 BC3 .3120 FSP -688

MID-COURSE EXECUTION ACCURACY

SGT 2926.6 SGR 327.2 SG3 246.6
 RRT -.3359 RRF .3908 RTF -.9439
 SGB 2944.8 R23 -.0745 R13 .9442
 SGI 2928.7 SG2 307.9 THA 177.83

ORBIT DETERMINATION ACCURACY

ST 1468.3 SR 180.5 SS 1337.7
 CRT .5809 CRS .6806 CST .9915
 LSA 1985.4 MSA 189.9 SSA 15.7
 EL1 1472.1 EL2 146.6 ALF 4.13

LAUNCH DATE NOV 17 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 336.996

RL 147.89 LAL -0.00 LOL 54.71 VL 26.820 GAL 9.75 AZL 85.53 HCA 136.33 SMA 123.41 ECC .25867 INC 4.4679 V1 30.126
 RP 107.84 LAP 3.08 LOP 191.13 VP 37.228 GAP -13.16 AZP 93.23 TAL 148.86 TAP 285.19 RCA 91.49 APO 155.33 V2 35.141
 RC 42.834 GL 18.40 GP -7.48 ZAL 41.20 ZAP 10.35 ETS 47.02 ZAE 154.68 ETE 226.23 ZAC 100.05 ETC 167.83 CLP -7.17

PLANETOCENTRIC CONIC

C3 42.565 VHL 6.524 DLA 23.64 RAL 8.25 RAD 6568.6 VEL 12.804 PTH 2.33 VHP 8.824 DPA -8.21 RAP 8.03 ECC 1.7005
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 37 3249.94 -25.37 114.22 252.26 76.98 5 26 47 2649.9 -26.91 105.89
 90.00 23 44 12 4198.19 -.02 171.88 242.56 61.68 24 54 10 3598.2 -3.80 165.24
 100.00 6 12 51 2926.75 -27.67 91.01 252.82 78.22 7 1 38 2326.8 -29.02 82.47
 100.00 0 50 34 3996.62 2.04 155.92 241.41 60.17 1 57 11 3396.6 -1.94 149.40
 110.00 7 58 52 2595.08 -33.16 66.98 253.98 81.17 8 42 7 1995.1 -34.02 57.84
 110.00 1 21 3 3901.05 6.78 145.74 238.48 56.42 2 26 4 3301.1 2.32 139.50

DIFFERENTIAL CORRECTIONS

TDE-1.4702 TRA-2.7945 TC3 -.2701 BAU .1714
 RDE -.1512 RRA .2490 RC3 -.1333 FAU .02085
 FDE 1.9152 FRA 2.6673 FC3 -.4241 BSP 9278
 BDE 1.4780 BRA 2.8056 BC3 .3012 FSP -756

MID-COURSE EXECUTION ACCURACY

SGT 2994.7 SGR 323.8 SG3 268.7
 RRT -.4196 RRF .4800 RTF -.9477
 SGB 3012.2 R23 -.0865 R13 .9481
 SGI 2997.8 SG2 293.6 THA 177.38

ORBIT DETERMINATION ACCURACY

ST 1520.9 SR 150.9 SS 1409.4
 CRT .4962 CRS .6030 CST .9916
 LSA 2070.8 MSA 183.6 SSA 15.1
 EL1 1522.7 EL2 130.9 ALF 2.84

LAUNCH DATE NOV 17 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 343.814

RL 147.89 LAL -0.00 LOL 54.71 VL 26.926 GAL 9.40 AZL 85.37 HCA 139.55 SMA 124.07 ECC .25017 INC 4.6254 V1 30.126
 RP 107.87 LAP 3.00 LOP 194.36 VP 37.294 GAP -12.43 AZP 93.52 TAL 148.64 TAP 288.19 RCA 93.03 APO 155.10 V2 35.129
 RC 42.524 GL 19.64 GP -8.38 ZAL 41.58 ZAP 12.10 ETS 44.55 ZAE 155.98 ETE 232.45 ZAC 101.83 ETC 168.26 CLP -8.76

PLANETOCENTRIC CONIC

C3 40.604 VHL 6.372 DLA 24.82 RAL 7.80 RAD 6568.6 VEL 12.727 PTH 2.31 VHP 8.428 DPA -8.35 RAP 9.90 ECC 1.6682
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 37 3304.74 -24.48 117.99 250.99 75.30 5 6 42 2704.7 -26.26 109.77
 90.00 0 5 29 4119.60 -2.55 167.50 242.20 61.79 1 14 9 3519.6 -6.31 160.83
 100.00 5 55 10 2970.88 -27.02 94.13 251.69 76.71 6 44 41 2370.9 -28.58 85.67
 100.00 1 4 33 3928.69 -.26 152.20 240.93 60.11 2 10 6 3328.7 -4.24 145.66
 110.00 7 45 55 2624.43 -32.83 69.20 253.08 79.89 8 29 39 2024.4 -33.87 60.12
 110.00 1 30 23 3847.91 4.77 142.94 237.79 56.11 2 34 31 3247.9 .29 136.73

DIFFERENTIAL CORRECTIONS

TDE-1.4922 TRA-2.7509 TC3 -.2483 BAU .1553
 RDE -.1031 RRA .2594 RC3 -.1423 FAU .02220
 FDE 2.0734 FRA 2.7917 FC3 -.4734 BSP 9682
 BDE 1.4957 BRA 2.7631 BC3 .2862 FSP -836

MID-COURSE EXECUTION ACCURACY

SGT 3054.1 SGR 327.9 SG3 292.9
 RRT -.5178 RRF .5824 RTF -.9513
 SGB 3071.6 R23 -.1001 R13 .9518
 SGI 3058.8 SG2 280.1 THA 176.79

ORBIT DETERMINATION ACCURACY

ST 1571.2 SR 120.7 SS 1486.0
 CRT .3237 CRS .4415 CST .9916
 LSA 2158.5 MSA 178.1 SSA 14.3
 EL1 1571.7 EL2 114.1 ALF 1.43

LAUNCH DATE NOV 17 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 350.619

RL 147.89 LAL -.00 LOL 54.71 VL 27.025 GAL 9.07 AZL 85.20 MCA 142.78 SMA 124.69 ECC .24219 INC 4.8049 V1 30.126
 RP 107.91 LAP 2.90 LOP 197.59 VP 37.354 GAP -11.73 AZP 93.83 TAL 148.44 TAP 291.22 RCA 94.49 APO 154.88 V2 35.117
 RC 42.392 GL 21.00 GP -9.46 ZAL 42.07 ZAP 14.02 ETS 43.08 ZAE 156.87 ETE 239.44 ZAC 103.59 ETC 168.76 CLP -10.40

PLANETOCENTRIC CONIC

C3 38.909 VHL 6.238 DLA 26.09 RAL 7.25 RAD 6568.5 VEL 12.660 PTH 2.30 VHP 8.050 DPA -8.67 RAP 11.79 ECC 1.6403
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 47 3377.90 -23.12 122.92 249.50 73.19 4 41 5 2777.9 -25.21 114.87
 90.00 0 27 54 4024.89 -5.59 162.18 242.11 62.19 1 34 59 3424.9 -9.26 155.44
 100.00 5 33 45 3026.64 -26.09 98.01 250.44 74.87 6 24 11 2426.6 -27.91 89.68
 100.00 1 21 38 3851.38 -2.88 147.95 240.62 60.23 2 25 50 3251.4 -6.82 141.38
 110.00 7 30 56 2659.96 -32.37 71.87 252.15 78.37 8 15 16 2060.0 -33.64 62.87
 110.00 1 40 56 3790.83 2.60 139.95 237.21 55.90 2 44 7 3190.8 -1.89 133.75

DIFFERENTIAL CORRECTIONS

TDE-1.5205 TRA-2.7054 TC3 -.2259 BAU .1417
 RDE -.0494 RRA .2761 RC3 -.1523 FAU .02359
 FDE 2.2559 FRA 2.9238 FC3 -.5250 BSP 10031
 BDE 1.5213 BRA 2.7194 BC3 .2724 FSP -921

MID-COURSE EXECUTION ACCURACY

SGT 3112.2 SGR 343.3 SG3 319.4
 RRT -.6219 RRF .6893 RTF -.9547
 SGB 3131.0 R23 -.1164 R13 .9554
 SGI 3119.5 SG2 268.2 TMA 176.05

ORBIT DETERMINATION ACCURACY

ST 1624.7 SR 96.2 SS 1570.4
 CRT -.0445 CRS .0821 CST .9918
 LSA 2255.0 MSA 173.4 SSA 13.5
 EL1 1624.7 EL2 96.1 ALF 179.85

LAUNCH DATE NOV 17 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 357.411

RL 147.89 LAL -.00 LOL 54.71 VL 27.116 GAL 8.77 AZL 84.99 MCA 145.99 SMA 125.27 ECC .23472 INC 5.0131 V1 30.126
 RP 107.95 LAP 2.80 LOP 200.81 VP 37.408 GAP -11.04 AZP 94.16 TAL 148.28 TAP 294.27 RCA 95.87 APO 154.67 V2 35.105
 RC 42.442 GL 22.49 GP -10.76 ZAL 42.69 ZAP 16.14 ETS 42.40 ZAE 157.22 ETE 246.95 ZAC 105.33 ETC 169.36 CLP -12.10

PLANETOCENTRIC CONIC

C3 37.487 VHL 6.123 DLA 27.45 RAL 6.58 RAD 6568.5 VEL 12.604 PTH 2.29 VHP 7.690 DPA -9.23 RAP 13.72 ECC 1.6169
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 5 8 3491.68 -20.69 130.37 247.49 70.22 4 3 20 2891.7 -23.20 122.60
 90.00 1 2 13 3892.30 -9.73 154.64 242.62 63.28 2 7 5 3292.3 -13.24 147.73
 100.00 5 6 11 3101.50 -24.66 103.11 248.94 72.55 5 57 52 2501.5 -26.81 94.97
 100.00 1 43 52 3757.71 -6.03 142.78 240.63 60.67 2 46 30 3157.7 -9.89 136.12
 110.00 7 13 15 2703.82 -31.72 75.13 251.15 76.54 7 58 19 2103.8 -33.25 66.23
 110.00 1 53 17 3728.15 .20 136.68 236.77 55.82 2 55 25 3128.2 -4.28 130.47

DIFFERENTIAL CORRECTIONS

TDE-1.5599 TRA-2.6608 TC3 -.2072 BAU .1322
 RDE .0125 RRA .3007 RC3 -.1633 FAU .02491
 FDE 2.4693 FRA 3.0633 FC3 -.5753 BSP 10245
 BDE 1.5599 BRA 2.6777 BC3 .2638 FSP -1009

MID-COURSE EXECUTION ACCURACY

SGT 3173.0 SGR 375.0 SG3 348.5
 RRT -.7193 RRF .7880 RTF -.9577
 SGB 3195.1 R23 -.1360 R13 .9587
 SGI 3184.6 SG2 259.6 TMA 175.11

ORBIT DETERMINATION ACCURACY

ST 1685.1 SR 96.0 SS 1665.0
 CRT -.6003 CRS -.4962 CST .9920
 LSA 2364.8 MSA 169.5 SSA 12.4
 EL1 1686.1 EL2 76.7 ALF 178.04

LAUNCH DATE NOV 17 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 364.188

RL 147.89 LAL -.00 LOL 54.71 VL 27.201 GAL 8.48 AZL 84.74 MCA 149.21 SMA 125.81 ECC .22772 INC 5.2589 V1 30.126
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.458 GAP -10.38 AZP 94.52 TAL 148.14 TAP 297.35 RCA 97.16 APO 154.46 V2 35.092
 RC 42.671 GL 24.14 GP -12.37 ZAL 43.45 ZAP 18.49 ETS 42.39 ZAE 156.92 ETE 254.56 ZAC 107.06 ETC 170.12 CLP -13.85

PLANETOCENTRIC CONIC

C3 36.357 VHL 6.030 DLA 28.94 RAL 5.77 RAD 6568.4 VEL 12.559 PTH 2.28 VHP 7.353 DPA -10.08 RAP 15.72 ECC 1.5983
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.77 1 8 48 3851.34 -16.13 154.79 244.24 65.65 2 12 59 3251.3 -19.29 147.49
 96.23 2 52 5 3517.17 -16.12 130.29 244.24 65.64 3 50 42 2917.2 -19.27 122.98
 100.00 4 25 7 3218.43 -22.05 110.82 246.84 69.29 5 18 45 2618.4 -24.67 103.00
 100.00 2 18 28 3625.31 -10.37 135.35 241.32 61.81 3 18 53 3025.3 -14.06 128.50
 110.00 6 51 38 2759.61 -30.77 79.20 250.03 74.31 7 37 38 2159.6 -32.61 70.46
 110.00 2 8 25 3656.90 -2.52 132.97 236.55 55.90 3 9 22 3056.9 -6.98 126.72

DIFFERENTIAL CORRECTIONS

TDE-1.6033 TRA-2.6080 TC3 -.1834 BAU .1235
 RDE .0862 RRA .3350 RC3 -.1759 FAU .02634
 FDE 2.7137 FRA 3.2014 FC3 -.6272 BSP 10539
 BDE 1.6036 BRA 2.6294 BC3 .2542 FSP -1108

MID-COURSE EXECUTION ACCURACY

SGT 3223.2 SGR 429.0 SG3 379.6
 RRT -.8013 RRF .8681 RTF -.9607
 SGB 3251.6 R23 -.1562 R13 .9620
 SGI 3241.5 SG2 255.2 TMA 173.87

ORBIT DETERMINATION ACCURACY

ST 1744.3 SR 136.6 SS 1767.2
 CRT -.9127 CRS -.8559 CST .9922
 LSA 2481.2 MSA 167.1 SSA 11.2
 EL1 1748.8 EL2 55.7 ALF 175.91

LAUNCH DATE NOV 17 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 370.949

RL 147.89 LAL -.00 LOL 54.71 VL 27.279 GAL 8.20 AZL 84.44 MCA 152.42 SMA 126.32 ECC .22120 INC 5.5556 V1 30.126
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.502 GAP -9.73 AZP 94.93 TAL 148.03 TAP 300.46 RCA 98.38 APO 154.26 V2 35.080
 RC 43.078 GL 26.00 GP -14.36 ZAL 44.40 ZAP 21.14 ETS 42.99 ZAE 155.88 ETE 261.73 ZAC 108.77 ETC 171.09 CLP -15.67

PLANETOCENTRIC CONIC

C3 35.558 VHL 5.963 DLA 30.59 RAL 4.78 RAD 6568.4 VEL 12.527 PTH 2.27 VHP 7.042 DPA -11.32 RAP 17.83 ECC 1.5852
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.92 0 19 42 3990.22 -17.16 165.59 243.31 64.28 1 26 12 3390.2 -20.48 158.32
 102.08 3 33 18 3367.06 -17.14 119.65 243.31 64.27 4 29 25 2767.1 -20.46 112.38
 77.92 0 19 42 3990.22 -17.16 165.59 243.31 64.28 1 26 12 3390.2 -20.48 158.32
 102.08 3 33 18 3367.06 -17.14 119.65 243.31 64.27 4 29 25 2767.1 -20.46 112.38
 110.00 6 23 45 2834.29 -29.27 84.50 248.65 71.50 7 10 59 2234.3 -31.51 76.01
 110.00 2 28 26 3570.99 -5.79 128.46 236.70 56.25 3 27 57 2971.0 -10.18 122.12

DIFFERENTIAL CORRECTIONS

TDE-1.6608 TRA-2.5530 TC3 -.1625 BAU .1189
 RDE .1775 RRA .3817 RC3 -.1902 FAU .02761
 FDE 2.9995 FRA 3.3352 FC3 -.6722 BSP 10763
 BDE 1.6703 BRA 2.5814 BC3 .2501 FSP -1209

MID-COURSE EXECUTION ACCURACY

SGT 3271.8 SGR 511.9 SG3 412.6
 RRT -.8612 RRF .9242 RTF -.9633
 SGB 3311.6 R23 -.1759 R13 .9652
 SGI 3301.5 SG2 257.9 TMA 172.28

ORBIT DETERMINATION ACCURACY

ST 1810.4 SR 213.3 SS 1880.6
 CRT -.9880 CRS -.9626 CST .9925
 LSA 2613.8 MSA 165.9 SSA 9.9
 EL1 1822.6 EL2 32.8 ALF 173.36

LAUNCH DATE NOV 17 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC
 RL 147.89 LAL -.00 LOL 54.71 VL 27.351 GAL 7.95 AZL 84.08 HCA 155.63 SMA 126.80 ECC .21513 INC 5.9235 V1 30.126
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.543 GAP -9.10 AZP 95.40 TAL 147.95 TAP 303.58 RCA 99.52 APO 154.07 V2 35.067
 RC 43.658 GL 28.13 GP -16.89 ZAL 45.57 ZAP 24.18 ETS 44.18 ZAE 154.01 ETE 268.02 ZAC 110.47 ETC 172.36 CLP -17.55

PLANETOCENTRIC CONIC
 C3 35.162 VML 5.930 DLA 32.45 RAL 3.55 RAD 6568.4 VEL 12.511 PTH 2.27 VMP 6.764 DPA -13.08 RAP 20.11 ECC 1.5787
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.45 23 39 52 4084.79 -18.21 173.29 242.42 62.67 24 47 57 3484.8 -21.73 166.06
 106.55 3 59 26 3266.83 -18.19 112.62 242.41 62.66 4 53 53 2666.8 -21.71 105.39
 73.45 23 39 52 4084.79 -18.21 173.29 242.42 62.67 24 47 57 3484.8 -21.73 166.06
 106.55 3 59 26 3266.83 -18.19 112.62 242.41 62.66 4 53 53 2666.8 -21.71 105.39
 110.00 5 43 19 2946.30 -26.61 92.12 246.61 67.70 6 32 25 2346.3 -29.39 84.04
 110.00 2 59 6 3453.31 -10.19 122.19 237.63 57.19 3 56 39 2853.3 -14.44 115.67

DIFFERENTIAL CORRECTIONS
 TOE-1.7345 TRA-2.4930 TC3 -.1424 BAU .1178
 ROE .2954 RRA .4440 RC3 -.2063 FAU .02864
 FOE 3.3301 FRA 3.4499 FC3 -.7052 BSP 10978
 BOE 1.7594 BRA 2.5323 BC3 .2507 FSP -1313

MID-COURSE EXECUTION ACCURACY
 SGT 3314.5 SGR 632.3 SG3 446.1
 RRT -.9010 RRF .9592 RTF -.9658
 SGB 3374.2 R23 -.1917 R13 .9686
 SG1 3363.4 SG2 270.3 THA 170.18

ORBIT DETERMINATION ACCURACY
 ST 1882.0 SR 323.7 SS 2004.1
 CRT -.9995 CRS -.9904 CST .9928
 LSA 2763.2 MSA 166.4 SSA 8.5
 EL1 1909.7 EL2 10.0 ALF 170.24

LAUNCH DATE NOV 17 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC
 RL 147.89 LAL -.00 LOL 54.71 VL 27.417 GAL 7.71 AZL 83.61 HCA 158.84 SMA 127.24 ECC .20950 INC 6.3950 V1 30.126
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.578 GAP -8.49 AZP 95.97 TAL 147.88 TAP 306.72 RCA 100.58 APO 153.89 V2 35.053
 RC 44.405 GL 30.62 GP -20.17 ZAL 47.06 ZAP 27.76 ETS 45.97 ZAE 151.18 ETE 273.12 ZAC 112.15 ETC 174.07 CLP -19.49

PLANETOCENTRIC CONIC
 C3 35.300 VML 5.941 DLA 34.59 RAL 2.00 RAD 6568.4 VEL 12.517 PTH 2.27 VMP 6.534 DPA -15.52 RAP 22.68 ECC 1.5810
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.26 23 7 35 4165.96 -19.27 180.18 241.55 60.71 24 17 1 3566.0 -23.02 173.02
 110.74 4 19 21 3187.64 -19.26 107.09 241.54 60.70 5 12 29 2587.6 -23.01 99.93
 69.26 23 7 35 4165.96 -19.27 180.18 241.55 60.71 24 17 1 3566.0 -23.02 173.02
 110.74 4 19 21 3187.64 -19.26 107.09 241.54 60.70 5 12 29 2587.6 -23.01 99.93
 69.26 23 7 35 4165.96 -19.27 180.18 241.55 60.71 24 17 1 3566.0 -23.02 173.02
 110.74 4 19 21 3187.64 -19.26 107.09 241.54 60.70 5 12 29 2587.6 -23.01 99.93

DIFFERENTIAL CORRECTIONS
 TOE-1.8327 TRA-2.4268 TC3 -.1241 BAU .1208
 ROE .4549 RRA .5256 RC3 -.2238 FAU .02916
 FOE 3.7084 FRA 3.5221 FC3 -.7151 BSP 11216
 BOE 1.8883 BRA 2.4831 BC3 .2559 FSP -1411

MID-COURSE EXECUTION ACCURACY
 SGT 3350.5 SGR 801.4 SG3 477.4
 RRT -.9259 RRF .9789 RTF -.9681
 SGB 3445.0 R23 -.1999 R13 .9721
 SG1 3432.3 SG2 295.4 THA 167.42

ORBIT DETERMINATION ACCURACY
 ST 1962.3 SR 476.0 SS 2136.4
 CRT -.9985 CRS -.9978 CST .9932
 LSA 2934.8 MSA 168.7 SSA 7.1
 EL1 2019.1 EL2 25.2 ALF 166.38

LAUNCH DATE NOV 17 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC
 RL 147.89 LAL -.00 LOL 54.71 VL 27.477 GAL 7.49 AZL 82.97 HCA 162.04 SMA 127.64 ECC .20430 INC 7.0253 V1 30.126
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.610 GAP -7.89 AZP 96.69 TAL 147.84 TAP 309.88 RCA 101.57 APO 153.72 V2 35.040
 RC 45.309 GL 33.61 GP -24.49 ZAL 48.98 ZAP 32.11 ETS 48.40 ZAE 147.18 ETE 276.98 ZAC 113.80 ETC 176.45 CLP -21.44

PLANETOCENTRIC CONIC
 C3 36.233 VML 6.019 DLA 37.10 RAL 359.97 RAD 6568.4 VEL 12.554 PTH 2.28 VMP 6.376 DPA -18.93 RAP 25.72 ECC 1.5963
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.96 22 35 43 4243.54 -20.29 187.01 240.71 58.26 23 46 26 3643.5 -24.34 179.97
 115.04 4 35 1 3123.24 -20.28 102.60 240.70 58.25 5 27 4 2523.2 -24.33 95.55
 64.96 22 35 43 4243.54 -20.29 187.01 240.71 58.26 23 46 26 3643.5 -24.34 179.97
 115.04 4 35 1 3123.24 -20.28 102.60 240.70 58.25 5 27 4 2523.2 -24.33 95.55
 64.96 22 35 43 4243.54 -20.29 187.01 240.71 58.26 23 46 26 3643.5 -24.34 179.97
 115.04 4 35 1 3123.24 -20.28 102.60 240.70 58.25 5 27 4 2523.2 -24.33 95.55

DIFFERENTIAL CORRECTIONS
 TOE-1.9734 TRA-2.3544 TC3 -.1097 BAU .1282
 ROE .6818 RRA .6298 RC3 -.2408 FAU .02867
 FOE 4.1286 FRA 3.5105 FC3 -.6850 BSP 11501
 BOE 2.0879 BRA 2.4372 BC3 .2646 FSP -1489

MID-COURSE EXECUTION ACCURACY
 SGT 3382.4 SGR 1034.5 SG3 501.4
 RRT -.9410 RRF .9892 RTF -.9703
 SGB 3537.1 R23 -.1981 R13 .9761
 SG1 3521.0 SG2 336.3 THA 163.79

ORBIT DETERMINATION ACCURACY
 ST 2058.9 SR 687.1 SS 2273.1
 CRT -.9961 CRS -.9997 CST .9937
 LSA 3138.2 MSA 172.6 SSA 5.6
 EL1 2169.7 EL2 57.7 ALF 161.60

LAUNCH DATE NOV 17 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC
 RL 147.89 LAL -.00 LOL 54.71 VL 27.533 GAL 7.29 AZL 82.08 HCA 165.24 SMA 128.02 ECC .19951 INC 7.9177 V1 30.126
 RP 108.19 LAP 2.01 LOP 220.08 VP 37.639 GAP -7.31 AZP 97.66 TAL 147.80 TAP 313.04 RCA 102.48 APO 153.56 V2 35.027
 RC 46.364 GL 37.32 GP -30.34 ZAL 51.52 ZAP 37.58 ETS 51.56 ZAE 141.61 ETE 279.78 ZAC 115.35 ETC 179.88 CLP -23.33

PLANETOCENTRIC CONIC
 C3 38.511 VML 6.206 DLA 40.12 RAL 357.17 RAD 6568.5 VEL 12.644 PTH 2.30 VMP 6.345 DPA -23.67 RAP 29.61 ECC 1.6338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.30 22 1 50 4324.33 -21.15 194.31 239.86 55.08 23 13 54 3724.3 -25.57 187.46
 119.70 4 46 32 3073.28 -21.14 99.06 239.84 55.07 5 37 45 2473.3 -25.56 92.21
 60.30 22 1 50 4324.33 -21.15 194.31 239.86 55.08 23 13 54 3724.3 -25.57 187.46
 119.70 4 46 32 3073.28 -21.14 99.06 239.84 55.07 5 37 45 2473.3 -25.56 92.21
 60.30 22 1 50 4324.33 -21.15 194.31 239.86 55.08 23 13 54 3724.3 -25.57 187.46
 119.70 4 46 32 3073.28 -21.14 99.06 239.84 55.07 5 37 45 2473.3 -25.56 92.21

DIFFERENTIAL CORRECTIONS
 TOE-2.1911 TRA-2.2757 TC3 -.1007 BAU .1397
 ROE 1.0227 RRA .7554 RC3 -.2519 FAU .02635
 FOE 4.5560 FRA 3.3444 FC3 -.5923 BSP 11907
 BOE 2.4181 BRA 2.3978 BC3 .2713 FSP -1521

MID-COURSE EXECUTION ACCURACY
 SGT 3414.3 SGR 1349.5 SG3 507.8
 RRT -.9500 RRF .9941 RTF -.9724
 SGB 3671.3 R23 -.1852 R13 .9808
 SG1 3650.1 SG2 394.3 THA 159.17

ORBIT DETERMINATION ACCURACY
 ST 2184.5 SR 983.1 SS 2399.9
 CRT -.9944 CRS -1.0000 CST .9943
 LSA 3386.2 MSA 177.9 SSA 4.2
 EL1 2393.7 EL2 94.5 ALF 155.85

LAUNCH DATE NOV 17 1968

FLIGHT TIME 158.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 404.453

RL 147.89 LAL -.00 LOL 54.71 VL 27.584 GAL 7.10 AZL 80.71 MCA 168.43 SMA 128.37 ECC .19513 INC 9.2881 V1 30.126
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.663 GAP -6.75 AZP 99.10 TAL 147.78 TAP 316.21 RCA 103.32 APO 153.41 V2 35.013
 RC 47.558 GL 42.07 GP -38.42 ZAL 55.03 ZAP 44.72 ETS 55.61 ZAE 133.81 ETE 282.06 ZAC 116.65 ETC 185.09 CLP -24.91

PLANETOCENTRIC CONIC

C3 43.476 VML 6.594 DLA 43.82 RAL 353.04 RAD 6568.6 VEL 12.839 PTH 2.34 VHP 6.564 DPA -30.24 RAP 35.09 ECC 1.7155
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.04 21 23 3 4416.07 -21.50 202.61 238.81 50.85 22 36 39 3816.1 -26.41 196.10
 124.96 4 52 22 3042.73 -21.49 96.68 238.80 50.84 5 43 5 2442.7 -26.40 90.18
 55.04 21 23 3 4416.07 -21.50 202.61 238.81 50.85 22 36 39 3816.1 -26.41 196.10
 124.96 4 52 22 3042.73 -21.49 96.68 238.80 50.84 5 43 5 2442.7 -26.40 90.18
 55.04 21 23 3 4416.07 -21.50 202.61 238.81 50.85 22 36 39 3816.1 -26.41 196.10
 124.96 4 52 22 3042.73 -21.49 96.68 238.80 50.84 5 43 5 2442.7 -26.40 90.18

DIFFERENTIAL CORRECTIONS

TDE-2.5756 TRA-2.1946 TC3 -.1025 BAU .1528
 RDE 1.5661 RRA .8846 RC3 -.2421 FAU .02067
 FDE 4.8963 FRA 2.9230 FC3 -.4117 BSP 12481
 BOE 3.0144 BRA 2.3662 BC3 .2629 FSP -1446

MID-COURSE EXECUTION ACCURACY

SGT 3486.0 SGR 1757.5 SG3 479.4
 RRT -.9552 RRF .9961 RTF -.9751
 SGB 3686.1 R23 -.1599 R13 .9864
 SG1 3657.9 SG2 467.5 THA 153.74

ORBIT DETERMINATION ACCURACY

ST 2374.4 SR 1397.9 SS 2486.1
 CRT -.9939 CRS -.9999 CST .9953
 LSA 3706.6 MSA 183.8 SSA 2.9
 EL1 2752.2 EL2 132.6 ALF 149.59

LAUNCH DATE NOV 17 1968

FLIGHT TIME 160.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 411.072

RL 147.89 LAL -.00 LOL 54.71 VL 27.630 GAL 6.93 AZL 78.32 MCA 171.60 SMA 128.68 ECC .19115 INC11.6781 V1 30.126
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.685 GAP -6.20 AZP 101.56 TAL 147.77 TAP 319.37 RCA 104.08 APO 153.28 V2 35.000
 RC 48.883 GL 48.35 GP -49.64 ZAL 60.09 ZAP 54.19 ETS 61.29 ZAE 122.82 ETE 285.22 ZAC 117.35 ETC 193.62 CLP -25.35

PLANETOCENTRIC CONIC

C3 55.199 VML 7.430 DLA 48.29 RAL 346.37 RAD 6569.0 VEL 13.288 PTH 2.43 VHP 7.364 DPA -39.04 RAP 43.93 ECC 1.9084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.10 20 34 42 4531.32 -20.45 212.41 236.97 45.25 21 50 13 3931.3 -25.97 206.51
 130.90 4 47 32 3046.63 -20.44 96.03 236.96 45.24 5 38 18 2446.6 -25.95 90.14
 49.10 20 34 42 4531.32 -20.45 212.41 236.97 45.25 21 50 13 3931.3 -25.97 206.51
 130.90 4 47 32 3046.63 -20.44 96.03 236.96 45.24 5 38 18 2446.6 -25.95 90.14
 49.10 20 34 42 4531.32 -20.45 212.41 236.97 45.25 21 50 13 3931.3 -25.97 206.51
 130.90 4 47 32 3046.63 -20.44 96.03 236.96 45.24 5 38 18 2446.6 -25.95 90.14

DIFFERENTIAL CORRECTIONS

TDE-3.3914 TRA-2.1173 TC3 -.1175 BAU .1618
 RDE 2.4581 RRA .9301 RC3 -.1851 FAU .01034
 FDE 4.9143 FRA 2.1391 FC3 -.1622 BSP 13428
 BOE 4.1885 BRA 2.3126 BC3 .2192 FSP -1206

MID-COURSE EXECUTION ACCURACY

SGT 3590.7 SGR 2198.0 SG3 391.8
 RRT -.9573 RRF .9955 RTF -.9797
 SGB 4210.0 R23 -.1218 R13 .9923
 SG1 4174.4 SG2 546.5 THA 149.04

ORBIT DETERMINATION ACCURACY

ST 2717.1 SR 1923.0 SS 2457.3
 CRT -.9944 CRS -.9997 CST .9967
 LSA 4133.2 MSA 188.4 SSA 1.8
 EL1 3324.6 EL2 165.6 ALF 144.76

LAUNCH DATE NOV 17 1968

FLIGHT TIME 162.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 417.633

RL 147.89 LAL -.00 LOL 54.71 VL 27.672 GAL 6.79 AZL 73.09 MCA 174.74 SMA 128.97 ECC .18761 INC16.9135 V1 30.126
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.703 GAP -5.68 AZP 106.85 TAL 147.73 TAP 322.48 RCA 104.77 APO 153.17 V2 34.987
 RC 50.327 GL 56.52 GP -64.76 ZAL 67.68 ZAP 66.39 ETS 74.03 ZAE 107.47 ETE 295.75 ZAC 117.04 ETC 211.83 CLP -20.03

PLANETOCENTRIC CONIC

C3 91.861 VML 9.584 DLA 52.80 RAL 334.58 RAD 6569.8 VEL 14.602 PTH 2.65 VHP 9.904 DPA -49.15 RAP 60.90 ECC 2.5118
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.37 19 29 25 4693.57 -15.63 223.45 232.33 38.88 20 47 39 4093.6 -21.79 218.47
 136.63 4 18 42 3123.50 -15.62 98.30 232.31 38.88 5 10 45 2523.5 -21.77 93.32
 43.37 19 29 25 4693.57 -15.63 223.45 232.33 38.88 20 47 39 4093.6 -21.79 218.47
 136.63 4 18 42 3123.50 -15.62 98.30 232.31 38.88 5 10 45 2523.5 -21.77 93.32
 43.37 19 29 25 4693.57 -15.63 223.45 232.33 38.88 20 47 39 4093.6 -21.79 218.47
 136.63 4 18 42 3123.50 -15.62 98.30 232.31 38.88 5 10 45 2523.5 -21.77 93.32

DIFFERENTIAL CORRECTIONS

TDE-5.9105 TRA-2.0720 TC3 -.1705 BAU .2212
 RDE 3.4822 RRA .5151 RC3 -.0581 FAU .00546
 FDE 4.3135 FRA 1.0903 FC3 .0515 BSP 14467
 BOE 6.8600 BRA 2.1351 BC3 .1801 FSP -761

MID-COURSE EXECUTION ACCURACY

SGT 4097.4 SGR 2146.0 SG3 241.6
 RRT -.9510 RRF .9841 RTF -.9907
 SGB 4625.4 R23 -.0703 R13 .9974
 SG1 4587.3 SG2 592.5 THA 153.04

ORBIT DETERMINATION ACCURACY

ST 3586.4 SR 2087.3 SS 2223.9
 CRT -.9951 CRS -.9987 CST .9989
 LSA 4704.3 MSA 183.9 SSA 1.0
 EL1 4145.7 EL2 178.6 ALF 149.86

LAUNCH DATE NOV 17 1968

FLIGHT TIME 164.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 423.972

RL 147.89 LAL -.00 LOL 54.71 VL 27.709 GAL 6.69 AZL 53.56 MCA 177.72 SMA 129.23 ECC .18481 INC36.4434 V1 30.126
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.719 GAP -5.22 AZP 126.42 TAL 147.59 TAP 325.31 RCA 105.35 APO 153.12 V2 34.974
 RC 51.881 GL 61.82 GP -76.05 ZAL 78.81 ZAP 80.08 ETS 147.19 ZAE 85.06 ETE 7.25 ZAC 117.85 ETC 294.93 CLP 44.36

PLANETOCENTRIC CONIC

C3 343.972 VML 18.546 DLA 50.60 RAL 316.91 RAD 6571.9 VEL 21.570 PTH 3.22 VHP 21.255 DPA -51.60 RAP 97.95 ECC 6.6609
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.14 18 27 27 4891.95 -3.82 229.61 223.78 39.50 19 48 59 4291.9 -9.97 224.87
 133.86 2 59 44 3360.70 -3.80 108.55 223.77 39.50 3 55 45 2760.7 -9.95 103.81
 46.14 18 27 27 4891.95 -3.82 229.61 223.78 39.50 19 48 59 4291.9 -9.97 224.87
 133.86 2 59 44 3360.70 -3.80 108.55 223.77 39.50 3 55 45 2760.7 -9.95 103.81
 46.14 18 27 27 4891.95 -3.82 229.61 223.78 39.50 19 48 59 4291.9 -9.97 224.87
 133.86 2 59 44 3360.70 -3.80 108.55 223.77 39.50 3 55 45 2760.7 -9.95 103.81

DIFFERENTIAL CORRECTIONS

TDE-9.9422 TRA -.2298 TC3 -.2202 BAU 1.4480
 RD-11.0773 RRA-1.8392 RC3 -.2250 FAU-.03267
 FDE 3.6516 FRA .3270 FC3 .0822 BSP 15299
 BOE14.8847 BRA 1.8535 BC3 .3149 FSP -339

MID-COURSE EXECUTION ACCURACY

SGT 3180.2 SGR 3634.4 SG3 101.9
 RRT .9770 RRF -.9933 RTF -.9950
 SGB 4829.4 R23 .0224 R13 -.9997
 SG1 4802.1 SG2 512.7 THA 48.90

ORBIT DETERMINATION ACCURACY

ST 3071.7 SR 3432.7 SS 2073.6
 CRT .9977 CRS .9994 CST .9995
 LSA 5049.2 MSA 154.7 SSA 1.0
 EL1 4603.8 EL2 154.2 ALF 48.18

LAUNCH DATE NOV 17 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 431.619

RL 147.89 LAL -1.00 LOL 54.71 VL 27.743 GAL 6.38 AZL 131.10 MCA 181.80 SMA 129.47 ECC .17985 INC41.0978 V1 30.126
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.731 GAP -4.45 AZP 48.92 TAL 148.22 TAP 330.02 RCA 106.18 APO 152.76 V2 34.961
 RC 53.536 GL -61.20 GP 71.83 ZAL 80.39 ZAP 83.44 ETS 208.83 ZAE 88.00 ETE 343.94 ZAC 90.05 ETC 60.59 CLP 68.53

PLANETOCENTRIC CONIC

C3 427.751 VHL 20.682 CLA -58.61 RAL 26.71 RAD 6572.2 VEL 23.432 PTH 3.29 VHP 27.636 DPA 78.43 RAP 232.59 ECC 8.0397
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.27 10 39 30 2330.44 2.93 68.73 294.90 148.57 11 18 20 1730.4 9.75 64.93
 143.73 20 4 31 677.92 2.95 294.02 294.92 148.56 20 15 49 77.9 9.76 290.21
 36.27 10 39 30 2330.44 2.93 68.73 294.90 148.57 11 18 20 1730.4 9.75 64.93
 143.73 20 4 31 677.92 2.95 294.02 294.92 148.56 20 15 49 77.9 9.76 290.21
 36.27 10 39 30 2330.44 2.93 68.73 294.90 148.57 11 18 20 1730.4 9.75 64.93
 143.73 20 4 31 677.92 2.95 294.02 294.92 148.56 20 15 49 77.9 9.76 290.21

DIFFERENTIAL CORRECTIONS

TOE 1.6711 TRA-5.7210 TC3 -.2230 BAU 1.8925
 ROE 1.4218 RRA 6.4344 RC3 .2445 FAU-.03544
 FDE -.0117 FRA 1.8829 FC3 -.0717 BSP 15022
 BDE 2.1941 BRA 8.6100 BC3 .3309 FSP -289

MID-COURSE EXECUTION ACCURACY

SGT 3213.2 SGR 3590.4 SG3 90.2
 RRT -.9678 RRF .9936 RTF -.9900
 SGB 4818.2 R23 .0001 R13 1.0000
 SG1 4779.7 SG2 607.9 THA 131.72

ORBIT DETERMINATION ACCURACY

ST 1023.9 SR 1100.1 SS 717.8
 CRT -.6509 CRS -.9298 CST .8968
 LSA 1550.7 MSA 607.7 SSA .3
 EL1 1374.6 EL2 607.7 ALF 131.95

LAUNCH DATE NOV 17 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 437.778

RL 147.89 LAL -1.00 LOL 54.71 VL 27.773 GAL 6.34 AZL 102.45 MCA 184.65 SMA 129.68 ECC .17797 INC12.4504 V1 30.126
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.742 GAP -4.04 AZP 77.59 TAL 147.99 TAP 332.64 RCA 106.60 APO 152.76 V2 34.948
 RC 55.282 GL -51.85 GP 72.69 ZAL 63.01 ZAP 74.27 ETS 302.89 ZAE 110.79 ETE 71.89 ZAC 87.07 ETC 146.05 CLP -24.33

PLANETOCENTRIC CONIC

C3 57.263 VHL 7.567 CLA -42.10 RAL 35.49 RAD 6569.0 VEL 13.365 PTH 2.44 VHP 10.640 DPA 67.84 RAP 322.34 ECC 1.9424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.44 12 24 1 1814.59 17.89 34.33 284.54 128.77 12 54 16 1214.6 22.78 27.99
 122.56 19 30 4 5781.41 17.90 270.96 284.55 128.76 21 6 26 5181.4 22.79 264.62
 57.44 12 24 1 1814.59 17.89 34.33 284.54 128.77 12 54 16 1214.6 22.78 27.99
 122.56 19 30 4 5781.41 17.90 270.96 284.55 128.76 21 6 26 5181.4 22.79 264.62
 57.44 12 24 1 1814.59 17.89 34.33 284.54 128.77 12 54 16 1214.6 22.78 27.99
 122.56 19 30 4 5781.41 17.90 270.96 284.55 128.76 21 6 26 5181.4 22.79 264.62

DIFFERENTIAL CORRECTIONS

TOE -1.3981 TRA-3.2257 TC3 -.0994 BAU .1597
 ROE -.4554 RRA-3.5165 RC3 .1833 FAU .00619
 FDE .5882 FRA 2.4909 FC3 -.0935 BSP 15982
 BDE 1.4703 BRA 4.7719 BC3 .2086 FSP -723

MID-COURSE EXECUTION ACCURACY

SGT 3460.9 SGR 3615.5 SG3 223.3
 RRT .9698 RRF -.9968 RTF -.9857
 SGB 5005.0 R23 -.0393 R13 -.9991
 SG1 4967.1 SG2 614.8 THA 46.29

ORBIT DETERMINATION ACCURACY

ST 1447.6 SR 1130.4 SS 811.8
 CRT .8726 CRS .9762 CST .9578
 LSA 1955.8 MSA 455.2 SSA 1.4
 EL1 1781.0 EL2 448.8 ALF 37.01

LAUNCH DATE NOV 17 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 444.235

RL 147.89 LAL -1.00 LOL 54.71 VL 27.800 GAL 6.26 AZL 96.07 MCA 187.77 SMA 129.87 ECC .17580 INC 6.0735 V1 30.126
 RP 108.47 LAP .82 LOP 242.44 VP 37.750 GAP -3.57 AZP 83.98 TAL 147.95 TAP 335.72 RCA 107.04 APO 152.70 V2 34.936
 RC 57.109 GL -34.18 GP 60.77 ZAL 49.24 ZAP 68.43 ETS 318.70 ZAE 123.36 ETE 81.73 ZAC 89.55 ETC 154.38 CLP -41.15

PLANETOCENTRIC CONIC

C3 27.092 VHL 5.205 CLA -24.85 RAL 29.23 RAD 6568.1 VEL 12.185 PTH 2.19 VHP 6.987 DPA 57.47 RAP 339.80 ECC 1.4459
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 13 29 22 1372.50 5.85 352.76 257.51 117.76 13 52 15 772.5 9.52 346.00
 90.00 17 34 45 5848.24 26.03 279.99 264.95 101.55 19 12 13 5248.2 27.37 271.58
 100.00 14 28 26 1181.82 3.74 337.59 256.35 119.68 14 48 8 581.8 7.67 331.00
 100.00 19 18 23 5514.16 28.39 255.91 265.45 99.76 20 50 17 4914.2 29.45 247.27
 110.00 14 54 5 1101.34 -.86 328.63 253.48 124.17 15 12 27 501.3 3.63 322.42
 110.00 21 9 12 5167.41 33.77 230.42 266.30 95.63 22 35 20 4567.4 34.18 221.20

DIFFERENTIAL CORRECTIONS

TOE -.8319 TRA-2.0377 TC3 -.0412 BAU .2454
 ROE -.5950 RRA-3.1965 RC3 .6764 FAU .02704
 FDE .9253 FRA 4.0036 FC3 -.8641 BSP 15253
 BDE 1.0227 BRA 3.7908 BC3 .6776 FSP -1383

MID-COURSE EXECUTION ACCURACY

SGT 2636.3 SGR 3995.1 SG3 435.7
 RRT .9641 RRF -.9992 RTF -.9702
 SGB 4786.5 R23 -.0548 R13 -.9981
 SG1 4750.2 SG2 588.7 THA 56.96

ORBIT DETERMINATION ACCURACY

ST 1178.3 SR 1335.1 SS 1073.2
 CRT .9295 CRS .9953 CST .9609
 LSA 2051.6 MSA 337.1 SSA 3.2
 EL1 1749.6 EL2 331.6 ALF 48.84

LAUNCH DATE NOV 17 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 450.719

RL 147.89 LAL -1.00 LOL 54.71 VL 27.824 GAL 6.18 AZL 93.35 MCA 190.93 SMA 130.04 ECC .17386 INC 3.3526 V1 30.126
 RP 108.51 LAP .64 LOP 245.62 VP 37.756 GAP -3.09 AZP 86.71 TAL 147.92 TAP 338.85 RCA 107.43 APO 152.65 V2 34.923
 RC 59.010 GL -21.08 GP 52.13 ZAL 41.60 ZAP 65.89 ETS 327.54 ZAE 131.89 ETE 85.29 ZAC 91.61 ETC 156.78 CLP -48.30

PLANETOCENTRIC CONIC

C3 20.231 VHL 4.498 CLA -12.44 RAL 24.66 RAD 6567.8 VEL 11.900 PTH 2.11 VHP 5.512 DPA 49.70 RAP 347.19 ECC 1.3329
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 51 13 1820.42 -8.47 17.89 244.86 117.12 11 21 34 1220.4 -4.76 11.17
 90.00 19 36 28 5257.85 26.83 237.34 250.34 80.60 21 4 5 4657.8 25.26 229.02
 100.00 12 6 10 1578.59 -9.57 359.52 244.27 118.45 12 32 29 978.6 -5.69 352.88
 100.00 21 4 11 4974.91 28.06 216.28 250.10 79.24 22 27 6 4374.9 26.29 207.93
 110.00 13 0 1 1409.98 -12.44 345.02 242.57 122.10 13 23 31 810.0 -8.11 338.60
 110.00 22 26 51 4716.28 31.30 195.81 249.26 75.51 23 45 27 4116.3 29.00 187.36

DIFFERENTIAL CORRECTIONS

TOE -.6517 TRA-1.5843 TC3 -.0636 BAU .2570
 ROE -.6700 RRA-2.8447 RC3 .9480 FAU .04543
 FDE 1.5395 FRA 5.5600 FC3 -1.9442 BSP 14358
 BDE .9346 BRA 3.2561 BC3 .9502 FSP -2091

MID-COURSE EXECUTION ACCURACY

SGT 2227.9 SGR 3902.0 SG3 666.5
 RRT .9581 RRF -.9993 RTF -.9611
 SGB 4493.2 R23 -.0569 R13 -.9977
 SG1 4458.4 SG2 558.8 THA 60.82

ORBIT DETERMINATION ACCURACY

ST 1036.1 SR 1403.0 SS 1395.2
 CRT .9622 CRS .9968 CST .9807
 LSA 2221.6 MSA 229.8 SSA 5.8
 EL1 1729.0 EL2 229.1 ALF 53.87

LAUNCH DATE NOV 17 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -.00 LOL 54.71 VL 27.844 GAL 6.12 AZL 91.84 MCA 194.10 SMA 130.18 ECC .17218 INC 1.8439 V1 30.126
 RP 108.55 LAP .45 LOP 248.80 VP 37.760 GAP -2.62 AZP 88.21 TAL 147.89 TAP 341.99 RCA 107.77 APO 152.60 V2 34.911
 RC 60.976 GL -12.15 GP 45.86 ZAL 38.05 ZAP 65.79 ETS 334.60 ZAE 137.94 ETE 88.62 ZAC 92.79 ETC 158.41 CLP -53.92

PLANETOCENTRIC CONIC

C3 17.931 VML 4.234 OLA -4.04 RAL 21.55 RAD 6567.7 VEL 11.803 PTH 2.09 VHP 4.721 DPA 43.73 RAP 350.79 ECC 1.2951
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 32 29 2063.19 -15.63 32.12 240.37 113.92 10 6 52 1463.2 -12.27 25.05
 90.00 20 30 25 4958.16 21.85 216.84 242.12 71.53 21 53 3 4358.2 19.13 209.23
 100.00 10 51 56 1806.90 -16.62 12.80 239.89 115.21 11 22 3 1206.9 -13.09 5.79
 100.00 21 53 39 4689.69 22.88 196.71 241.73 70.22 23 11 49 4089.7 19.98 189.12
 110.00 11 55 50 1606.83 -19.26 356.20 238.48 118.80 12 22 37 1006.8 -15.27 349.36
 110.00 23 6 14 4462.51 25.64 178.27 240.54 66.57 24 20 37 3862.5 22.24 170.76

DIFFERENTIAL CORRECTIONS

TDE -.5444 TRA-1.2546 TC3 -.1284 BAU .2527
 RDE -.7282 RRA-2.5865 RC3 1.0462 FAU .06170
 FDE 2.2980 FRA 6.9948 FC3-2.9789 BSP 13462
 BDE .9092 BRA 2.8747 BC3 1.0540 FSP -2785

MID-COURSE EXECUTION ACCURACY

SGT 1857.6 SGR 3750.3 SG3 889.8
 RRT .9474 RRF -.9991 RTF -.9495
 SGB 4185.2 R23 -.0528 R13 -.9977
 SG1 4150.6 SG2 537.1 THA 64.40

ORBIT DETERMINATION ACCURACY

ST 896.3 SR 1442.0 SS 1719.8
 CRT .9773 CRS .9970 CST .9906
 LSA 2411.2 MSA 163.4 SSA 8.9
 EL1 1690.1 EL2 162.0 ALF 58.40

LAUNCH DATE NOV 17 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -.00 LOL 54.71 VL 27.862 GAL 6.06 AZL 90.88 MCA 197.27 SMA 130.31 ECC .17079 INC .8811 V1 30.126
 RP 108.58 LAP .26 LOP 251.98 VP 37.762 GAP -2.16 AZP 89.16 TAL 147.85 TAP 345.12 RCA 108.05 APO 152.56 V2 34.900
 RC 63.000 GL -5.93 GP 41.17 ZAL 36.59 ZAP 67.39 ETS 340.55 ZAE 142.31 ETE 92.78 ZAC 93.16 ETC 159.87 CLP -59.28

PLANETOCENTRIC CONIC

C3 17.014 VML 4.125 OLA 1.77 RAL 19.35 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 4.224 DPA 38.94 RAP 352.46 ECC 1.2800
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 40 30 2231.49 -19.98 42.56 238.48 110.50 9 17 42 1631.5 -17.01 35.14
 90.00 21 4 50 4765.52 17.21 204.63 237.73 67.16 22 24 16 4165.5 13.96 197.45
 100.00 10 2 40 1966.45 -20.97 22.65 238.07 111.81 10 35 27 1366.5 -17.82 15.27
 100.00 22 25 21 4505.79 18.18 185.08 237.28 65.86 23 40 27 3905.8 14.77 177.95
 110.00 11 12 48 1746.92 -23.62 4.74 236.81 115.46 11 41 55 1146.9 -19.99 357.47
 110.00 23 31 42 4298.09 20.78 167.97 235.94 62.23 24 43 20 3698.1 16.90 161.00

DIFFERENTIAL CORRECTIONS

TDE -.4429 TRA -.9517 TC3 -.2253 BAU .2462
 RDE -.7678 RRA-2.3926 RC3 1.0586 FAU .07570
 FDE 3.1220 FRA 8.2952 FC3-3.8519 BSP 12490
 BDE .8863 BRA 2.5749 BC3 1.0823 FSP -3427

MID-COURSE EXECUTION ACCURACY

SGT 1470.5 SGR 3599.4 SG3 1099.0
 RRT .9242 RRF -.9988 RTF -.9262
 SGB 3688.2 R23 -.0442 R13 -.9979
 SG1 3652.6 SG2 524.8 THA 68.91

ORBIT DETERMINATION ACCURACY

ST 732.1 SR 1460.5 SS 2024.8
 CRT .9837 CRS .9969 CST .9947
 LSA 2598.5 MSA 129.7 SSA 12.0
 EL1 1629.4 EL2 118.1 ALF 63.60

LAUNCH DATE NOV 17 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -.00 LOL 54.71 VL 27.877 GAL 6.03 AZL 90.21 MCA 200.44 SMA 130.42 ECC .16966 INC .2098 V1 30.126
 RP 108.62 LAP .07 LOP 255.15 VP 37.763 GAP -1.70 AZP 89.80 TAL 147.80 TAP 348.24 RCA 108.29 APO 152.54 V2 34.889
 RC 65.076 GL -1.43 GP 37.51 ZAL 36.11 ZAP 70.18 ETS 345.62 ZAE 145.45 ETE 98.10 ZAC 92.87 ETC 161.27 CLP -64.70

PLANETOCENTRIC CONIC

C3 16.636 VML 4.079 OLA 5.97 RAL 17.73 RAD 6567.7 VEL 11.748 PTH 2.07 VHP 3.883 DPA 34.92 RAP 352.98 ECC 1.2738
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 2 30 2357.50 -22.76 50.74 237.67 107.32 8 41 48 1757.5 -20.18 43.02
 90.00 21 29 53 4629.20 13.42 196.41 235.22 64.83 22 47 2 4029.2 9.92 189.48
 100.00 9 26 41 2086.01 -23.79 30.41 237.30 108.66 10 1 27 1486.0 -21.02 22.71
 100.00 22 48 23 4375.93 14.39 177.30 234.73 63.52 24 1 19 3775.9 10.72 170.43
 110.00 10 41 24 1852.14 -26.53 11.52 236.17 112.39 11 12 17 1252.1 -23.26 3.89
 110.00 23 50 9 4182.56 16.97 161.18 233.29 59.87 24 59 52 3582.6 12.84 154.51

DIFFERENTIAL CORRECTIONS

TDE -.3241 TRA -.6451 TC3 -.3397 BAU .2435
 RDE -.7868 RRA-2.2326 RC3 1.0409 FAU .08825
 FDE 3.9461 FRA 9.4431 FC3-4.5922 BSP 11597
 BDE .8509 BRA 2.3239 BC3 1.0950 FSP -4039

MID-COURSE EXECUTION ACCURACY

SGT 1055.5 SGR 3447.6 SG3 1289.2
 RRT .8631 RRF -.9985 RTF -.8658
 SGB 3605.6 R23 -.0308 R13 -.9980
 SG1 3568.6 SG2 515.0 THA 74.88

ORBIT DETERMINATION ACCURACY

ST 531.0 SR 1455.0 SS 2293.6
 CRT .9855 CRS .9966 CST .9959
 LSA 2765.1 MSA 116.5 SSA 14.0
 EL1 1546.6 EL2 84.7 ALF 70.16

LAUNCH DATE NOV 17 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -.00 LOL 54.71 VL 27.889 GAL 6.00 AZL 89.71 MCA 203.62 SMA 130.50 ECC .16881 INC .2861 V1 30.126
 RP 108.65 LAP -.11 LOP 258.33 VP 37.762 GAP -1.25 AZP 90.26 TAL 147.72 TAP 351.34 RCA 108.47 APO 152.53 V2 34.878
 RC 67.198 GL 1.95 GP 34.54 ZAL 36.07 ZAP 73.85 ETS 349.97 ZAE 147.59 ETE 104.61 ZAC 92.05 ETC 162.61 CLP -70.26

PLANETOCENTRIC CONIC

C3 16.514 VML 4.064 OLA 9.13 RAL 16.49 RAD 6567.7 VEL 11.743 PTH 2.07 VHP 3.637 DPA 31.37 RAP 352.73 ECC 1.2718
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 33 1 2456.74 -24.61 57.43 237.37 104.46 8 13 58 1856.7 -22.39 49.46
 90.00 21 49 31 4526.59 10.38 190.41 233.71 63.50 23 4 57 3926.6 6.74 183.62
 100.00 8 58 50 2180.00 -25.69 36.75 237.05 105.84 9 35 9 1580.0 -23.27 28.79
 100.00 23 6 23 4278.56 11.37 171.66 233.20 62.17 24 17 42 3678.6 7.55 164.94
 110.00 10 17 14 1934.64 -28.54 17.09 236.02 109.66 10 49 28 1334.6 -25.60 9.15
 110.00 0 8 24 4096.68 13.97 156.33 231.67 58.48 1 16 41 3496.7 9.70 149.84

DIFFERENTIAL CORRECTIONS

TDE -.1839 TRA -.3280 TC3 -.4719 BAU .2455
 RDE -.7897 RRA-2.0920 RC3 1.0069 FAU .09912
 FDE 4.7383 FRA10.4323 FC3-5.1960 BSP 10746
 BDE .8108 BRA 2.1176 BC3 1.1120 FSP -4598

MID-COURSE EXECUTION ACCURACY

SGT 658.5 SGR 3291.5 SG3 1457.1
 RRT .6339 RRF -.9980 RTF -.6384
 SGB 3356.7 R23 -.0123 R13 -.9980
 SG1 3318.5 SG2 505.2 THA 82.60

ORBIT DETERMINATION ACCURACY

ST 295.1 SR 1429.5 SS 2525.7
 CRT .9821 CRS .9961 CST .9942
 LSA 2914.9 MSA 114.7 SSA 14.9
 EL1 1458.6 EL2 54.5 ALF 78.52

LAUNCH DATE NOV 17 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.899 GAL 5.99 AZL 89.33 HCA 206.79 SMA 130.58 ECC .16822 INC .6706 V1 30.126
 RP 108.68 LAP -0.30 LOP 261.50 VP 37.760 GAP -0.80 AZP 90.60 TAL 147.63 TAP 354.42 RCA 108.61 APO 152.54 V2 34.867
 RC 69.360 GL 4.58 GP 32.01 ZAL 36.20 ZAP 78.14 ETS 353.73 ZAE 148.82 ETE 112.10 ZAC 90.82 ETC 163.88 CLP -75.98

PLANETOCENTRIC CONIC

C3 16.535 VHL 4.066 DLA 11.59 RAL 15.54 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 3.458 DPA 28.14 RAP 351.97 ECC 1.2721
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 9 13 2537.93 -25.88 63.04 237.35 101.92 7 51 31 1937.9 -23.97 54.88
 90.00 22 5 42 4445.97 7.89 185.79 232.81 62.72 23 19 47 3846.0 4.17 179.08
 100.00 8 36 25 2256.68 -27.00 42.07 237.07 103.34 9 14 2 1656.7 -24.90 33.90
 100.00 23 21 10 4202.45 8.91 167.34 232.26 61.35 24 31 13 3602.4 5.02 160.71
 110.00 9 57 56 2001.63 -29.99 21.77 236.14 107.23 10 31 17 1401.6 -27.34 13.58
 110.00 0 20 5 4030.27 11.58 152.68 230.67 57.61 1 27 15 3430.3 7.22 146.29

DIFFERENTIAL CORRECTIONS

TOE -.0218 TRA .0001 TC3 -.6182 BAU .2528
 RDE -.7776 RRA-1.9602 RC3 .9619 FAU .10807
 FDE 5.4634 FRA11.2422 FC3-5.6582 BSP 9996
 BOE .7779 BRA 1.9602 BC3 1.1434 FSP -5090

MID-COURSE EXECUTION ACCURACY

SGT 503.7 SGR 3124.3 SG3 1597.6
 RRT -.2288 RRF -.9975 RTF .2233
 SGB 3164.7 R23 .0110 R13 -.9974
 SG1 3126.5 SG2 490.0 THA 92.17

ORBIT DETERMINATION ACCURACY

ST 34.2 SR 1384.3 SS 2718.8
 CRT .7020 CRS .9955 CST .7517
 LSA 3048.8 MSA 118.5 SSA 15.0
 EL1 1384.5 EL2 24.3 ALF 89.01

LAUNCH DATE NOV 17 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.907 GAL 6.00 AZL 89.02 HCA 209.96 SMA 130.63 ECC .16789 INC .9790 V1 30.126
 RP 108.72 LAP -0.49 LOP 264.67 VP 37.757 GAP -0.36 AZP 90.85 TAL 147.51 TAP 357.47 RCA 108.70 APO 152.56 V2 34.858
 RC 71.560 GL 6.68 GP 29.77 ZAL 36.39 ZAP 82.90 ETS 356.99 ZAE 149.19 ETE 120.17 ZAC 89.28 ETC 165.06 CLP -81.81

PLANETOCENTRIC CONIC

C3 16.649 VHL 4.080 DLA 13.55 RAL 14.79 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 3.332 DPA 25.10 RAP 350.87 ECC 1.2740
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 49 28 2606.38 -26.75 67.86 237.51 99.66 7 32 54 2006.4 -25.14 59.56
 90.00 22 19 30 4380.68 5.84 182.09 232.30 62.24 23 32 31 3780.7 2.08 175.43
 100.00 8 17 55 2321.12 -27.93 46.63 237.26 101.11 8 56 36 1721.1 -26.11 38.30
 100.00 23 33 44 4141.17 6.90 163.91 231.73 60.84 24 42 45 3541.2 2.96 157.33
 110.00 9 42 8 2057.61 -31.05 25.79 236.43 105.07 10 16 25 1457.6 -28.67 17.40
 110.00 0 29 57 3977.45 9.64 149.82 230.06 57.04 1 36 14 3377.4 5.23 143.50

DIFFERENTIAL CORRECTIONS

TDE .1596 TRA .3361 TC3 -.7740 BAU .2657
 RDE -.7514 RRA-1.8301 RC3 .9090 FAU .11491
 FDE 6.0891 FRA11.8439 FC3-5.9749 BSP 9434
 BOE .7682 BRA 1.8607 BC3 1.1939 FSP -5497

MID-COURSE EXECUTION ACCURACY

SGT 827.6 SGR 2941.2 SG3 1705.3
 RRT -.8169 RRF -.9967 RTF .8143
 SGB 3055.4 R23 .0358 R13 -.9961
 SG1 3019.8 SG2 465.0 THA 103.26

ORBIT DETERMINATION ACCURACY

ST 268.0 SR 1320.1 SS 2870.9
 CRT -.9962 CRS .9946 CST -.9978
 LSA 3168.7 MSA 124.6 SSA 14.8
 EL1 1346.8 EL2 22.8 ALF 101.44

LAUNCH DATE NOV 17 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.913 GAL 6.02 AZL 88.77 HCA 213.13 SMA 130.67 ECC .16782 INC 1.2333 V1 30.126
 RP 108.74 LAP -0.67 LOP 267.84 VP 37.752 GAP .07 AZP 91.03 TAL 147.36 TAP .49 RCA 108.74 APO 152.60 V2 34.848
 RC 73.792 GL 8.37 GP 27.72 ZAL 36.59 ZAP 87.95 ETS 359.81 ZAE 148.75 ETE 128.28 ZAC 87.55 ETC 166.09 CLP -87.68

PLANETOCENTRIC CONIC

C3 16.836 VHL 4.103 DLA 15.16 RAL 14.21 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 3.249 DPA 22.20 RAP 349.57 ECC 1.2771
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 45 2665.51 -27.35 72.08 237.79 97.62 7 17 10 2065.5 -26.02 63.67
 90.00 22 31 37 4326.67 4.12 179.06 232.08 61.96 23 43 43 3726.7 .33 172.42
 100.00 8 2 20 2376.59 -28.59 50.62 237.58 99.11 8 41 56 1776.6 -27.04 42.16
 100.00 23 44 42 4090.82 5.22 161.11 231.47 60.52 24 52 53 3490.8 1.25 154.57
 110.00 9 28 58 2105.53 -31.84 29.30 236.84 103.14 10 4 3 1505.5 -29.71 20.74
 110.00 0 38 30 3934.64 8.04 147.53 229.73 56.66 1 44 4 3334.6 3.60 141.26

DIFFERENTIAL CORRECTIONS

TDE .3561 TRA .6744 TC3 -.9339 BAU .2842
 RDE -.7115 RRA-1.6984 RC3 .8497 FAU .11943
 FDE 6.5813 FRA12.2136 FC3-6.1413 BSP 9164
 BOE .7956 BRA 1.8275 BC3 1.2626 FSP -5806

MID-COURSE EXECUTION ACCURACY

SGT 1336.7 SGR 2740.6 SG3 1775.0
 RRT -.9352 RRF -.9957 RTF .9349
 SGB 3049.2 R23 .0557 R13 -.9942
 SG1 3018.8 SG2 429.7 THA 115.06

ORBIT DETERMINATION ACCURACY

ST 577.5 SR 1237.3 SS 2978.8
 CRT -.9941 CRS .9934 CST -.9996
 LSA 3274.2 MSA 131.5 SSA 14.4
 EL1 1364.2 EL2 56.9 ALF 114.94

LAUNCH DATE NOV 17 1968

FLIGHT TIME 188.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.917 GAL 6.05 AZL 88.55 HCA 216.30 SMA 130.70 ECC .16800 INC 1.4476 V1 30.126
 RP 108.77 LAP -0.86 LOP 271.00 VP 37.747 GAP .50 AZP 91.17 TAL 147.19 TAP 3.49 RCA 108.74 APO 152.66 V2 34.839
 RC 76.053 GL 9.77 GP 25.80 ZAL 36.76 ZAP 93.17 ETS 2.24 ZAE 147.62 ETE 135.94 ZAC 85.71 ETC 166.97 CLP -93.52

PLANETOCENTRIC CONIC

C3 17.084 VHL 4.133 DLA 16.50 RAL 13.77 RAD 6567.7 VEL 11.767 PTH 2.08 VHP 3.206 DPA 19.43 RAP 348.18 ECC 1.2812
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 24 2717.57 -27.77 75.83 238.16 95.79 7 3 42 2117.6 -26.68 67.34
 90.00 22 42 26 4281.34 2.66 176.52 232.06 61.80 23 53 47 3681.3 -1.13 169.89
 100.00 7 49 3 2425.26 -29.07 54.16 237.99 97.30 8 29 28 1825.3 -27.75 45.60
 100.00 23 54 28 4048.88 3.81 158.80 231.43 60.33 25 1 57 3448.9 -.17 152.27
 110.00 9 17 52 2147.37 -32.45 32.41 237.35 101.39 9 53 39 1547.4 -30.54 23.71
 110.00 0 46 5 3899.54 6.73 145.66 229.62 56.41 1 51 4 3299.5 2.26 139.42

DIFFERENTIAL CORRECTIONS

TDE .5632 TRA 1.0103 TC3-1.0918 BAU .3067
 RDE -.6614 RRA-1.5685 RC3 .7816 FAU .12084
 FDE 6.9345 FRA12.3705 FC3-6.1236 BSP 9214
 BOE .8688 BRA 1.8657 BC3 1.3427 FSP -5978

MID-COURSE EXECUTION ACCURACY

SGT 1886.1 SGR 2529.9 SG3 1808.0
 RRT -.9663 RRF -.9943 RTF .9678
 SGB 3155.6 R23 .0649 R13 -.9926
 SG1 3131.1 SG2 392.1 THA 126.43

ORBIT DETERMINATION ACCURACY

ST 895.7 SR 1141.9 SS 3049.3
 CRT -.9919 CRS .9917 CST -.9999
 LSA 3374.2 MSA 138.4 SSA 14.1
 EL1 1448.5 EL2 89.8 ALF 128.06

LAUNCH DATE NOV 17 1968

FLIGHT TIME 190.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -.00 LOL 54.71 VL 27.918 GAL 6.10 AZL 88.37 MCA 219.47 SMA 130.71 ECC .16843 INC 1.6319 V1 30.126
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.741 GAP .93 AZP 91.26 TAL 146.98 TAP 6.45 RCA 108.70 APO 152.73 V2 34.831
 RC 78.340 GL 10.93 GP 23.98 ZAL 36.89 ZAP 98.44 ETS 4.32 ZAE 145.95 ETE 142.79 ZAC 83.88 ETC 167.67 CLP -99.24

PLANETOCENTRIC CONIC

C3 17.390 VHL 4.170 DLA 17.62 RAL 13.45 RAD 6567.7 VEL 11.780 PTH 2.08 VHP 3.196 DPA 16.80 RAP 346.80 ECC 1.2862
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 0 2764.15 -28.04 79.21 238.63 94.11 6 52 4 2164.1 -27.18 70.65
 90.00 22 52 15 4242.96 1.43 174.38 232.22 61.72 24 2 58 3643.0 -2.37 167.75
 100.00 7 37 38 2468.66 -29.40 57.34 238.49 95.66 8 18 46 1868.7 -28.31 48.71
 100.00 0 7 14 4013.68 2.62 156.86 231.56 60.21 1 14 8 3413.7 -1.37 150.34
 110.00 9 8 27 2184.51 -32.91 35.21 237.94 99.79 9 44 51 1584.5 -31.21 26.40
 110.00 0 52 54 3870.60 5.63 144.14 229.69 56.23 1 57 25 3270.6 1.16 137.91

DIFFERENTIAL CORRECTIONS

TOE .7744 TRA 1.3364 TC3-1.2422 BAU .3331
 RDE -.6008 RRA-1.4377 RC3 .7144 FAU .12036
 FDE 7.1176 FRA12.2924 FC3-5.9920 BSP 9662
 BOE .9802 BRA 1.9629 BC3 1.4330 FSP -6053

MID-COURSE EXECUTION ACCURACY

SGT 2432.6 SGR 2309.1 SG3 1801.3
 RRT -.9772 RRF -.9925 RTF .9805
 SGB 3354.0 R23 .0617 R13 -.9918
 SG1 3334.9 SG2 358.0 THA 136.53

ORBIT DETERMINATION ACCURACY

ST 1211.3 SR 1033.6 SS 3074.3
 CRT -.9890 CRS .9891 CST -.9999
 LSA 3459.2 MSA 145.3 SSA 13.8
 EL1 1588.1 EL2 116.4 ALF 139.57

LAUNCH DATE NOV 17 1968

FLIGHT TIME 192.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -.00 LOL 54.71 VL 27.919 GAL 6.16 AZL 88.21 MCA 222.64 SMA 130.72 ECC .16911 INC 1.7928 V1 30.126
 RP 108.82 LAP -1.21 LOP 277.33 VP 37.734 GAP 1.35 AZP 91.32 TAL 146.75 TAP 9.39 RCA 108.61 APO 152.82 V2 34.824
 RC 80.651 GL 11.89 GP 22.25 ZAL 36.97 ZAP 103.65 ETS 6.09 ZAE 143.89 ETE 148.68 ZAC 82.13 ETC 168.18 CLP -104.77

PLANETOCENTRIC CONIC

C3 17.752 VHL 4.213 DLA 18.58 RAL 13.22 RAD 6567.7 VEL 11.796 PTH 2.09 VHP 3.219 DPA 14.32 RAP 345.50 ECC 1.2922
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 12 2806.35 -28.21 82.29 239.17 92.58 6 41 58 2206.3 -27.55 73.68
 90.00 23 1 15 4210.33 .37 172.56 232.52 61.69 24 11 26 3610.3 -3.42 165.92
 100.00 7 27 46 2507.85 -29.63 60.23 239.08 94.15 8 9 34 1907.9 -28.74 51.54
 100.00 0 15 18 3984.05 1.62 155.23 231.85 60.15 1 21 42 3384.1 -2.37 148.71
 110.00 9 0 26 2217.93 -33.27 37.75 238.61 98.33 9 37 24 1617.9 -31.76 28.85
 110.00 0 59 8 3846.74 4.73 142.88 229.89 56.11 2 3 15 3246.7 .25 136.67

DIFFERENTIAL CORRECTIONS

TOE .9856 TRA 1.6497 TC3-1.3798 BAU .3616
 RDE -.5346 RRA-1.3111 RC3 .6460 FAU .11749
 FDE 7.1539 FRA12.0282 FC3-5.7297 BSP 10407
 BOE 1.1212 BRA 2.1073 BC3 1.5235 FSP -6013

MID-COURSE EXECUTION ACCURACY

SGT 2958.1 SGR 2088.8 SG3 1761.7
 RRT -.9807 RRF -.9899 RTF .9864
 SGB 3621.2 R23 .0508 R13 -.9918
 SG1 3605.7 SG2 335.3 THA 144.95

ORBIT DETERMINATION ACCURACY

ST 1517.2 SR 920.4 SS 3064.8
 CRT -.9851 CRS .9854 CST -.9999
 LSA 3538.2 MSA 151.8 SSA 13.4
 EL1 1769.3 EL2 135.8 ALF 148.93

LAUNCH DATE NOV 17 1968

FLIGHT TIME 194.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -.00 LOL 54.71 VL 27.917 GAL 6.24 AZL 88.06 MCA 225.80 SMA 130.71 ECC .17004 INC 1.9355 V1 30.126
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.726 GAP 1.78 AZP 91.35 TAL 146.49 TAP 12.29 RCA 108.48 APO 152.93 V2 34.816
 RC 82.981 GL 12.70 GP 20.61 ZAL 37.00 ZAP 108.72 ETS 7.58 ZAE 141.60 ETE 153.59 ZAC 80.55 ETC 168.51 CLP -110.05

PLANETOCENTRIC CONIC

C3 18.172 VHL 4.263 DLA 19.41 RAL 13.09 RAD 6567.7 VEL 11.813 PTH 2.09 VHP 3.269 DPA 12.02 RAP 344.34 ECC 1.2991
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 45 48 2844.98 -28.29 85.11 239.80 91.17 6 33 13 2245.0 -27.83 76.48
 90.00 23 9 36 4182.60 -.52 171.01 232.95 61.69 24 19 18 3582.6 -4.30 164.37
 100.00 7 19 14 2543.64 -29.78 62.89 239.74 92.76 8 1 38 1943.6 -29.08 54.15
 100.00 0 22 46 3959.17 .77 153.87 232.23 60.12 1 28 45 3359.2 -3.21 147.34
 110.00 8 53 37 2248.38 -33.55 40.08 239.36 96.97 9 31 5 1648.4 -32.22 31.10
 110.00 1 4 53 3827.19 3.99 141.86 230.23 56.02 2 8 40 3227.2 -.50 135.65

DIFFERENTIAL CORRECTIONS

TOE 1.1922 TRA 1.9471 TC3-1.5018 BAU .3911
 RDE -.4652 RRA-1.1911 RC3 .5794 FAU .11275
 FDE 7.0582 FRA11.6137 FC3-5.3716 BSP 11369
 BOE 1.2797 BRA 2.2825 BC3 1.6097 FSP -5878

MID-COURSE EXECUTION ACCURACY

SGT 3450.5 SGR 1875.1 SG3 1695.0
 RRT -.9805 RRF -.9864 RTF .9896
 SGB 3927.1 R23 .0377 R13 -.9922
 SG1 3913.6 SG2 324.6 THA 151.74

ORBIT DETERMINATION ACCURACY

ST 1806.1 SR 806.5 SS 3024.7
 CRT -.9792 CRS .9798 CST -1.0000
 LSA 3610.5 MSA 158.0 SSA 13.2
 EL1 1972.3 EL2 149.9 ALF 156.24

LAUNCH DATE NOV 17 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -.00 LOL 54.71 VL 27.914 GAL 6.34 AZL 87.94 MCA 228.97 SMA 130.68 ECC .17121 INC 2.0635 V1 30.126
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.718 GAP 2.20 AZP 91.36 TAL 146.19 TAP 15.16 RCA 108.31 APO 153.06 V2 34.810
 RC 85.328 GL 13.37 GP 19.07 ZAL 36.99 ZAP 113.59 ETS 8.82 ZAE 139.23 ETE 157.62 ZAC 79.17 ETC 168.68 CLP -115.05

PLANETOCENTRIC CONIC

C3 18.652 VHL 4.319 DLA 20.12 RAL 13.04 RAD 6567.8 VEL 11.834 PTH 2.10 VHP 3.346 DPA 9.93 RAP 343.37 ECC 1.3070
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 36 2880.65 -28.32 87.72 240.50 89.86 6 25 37 2280.7 -28.04 79.07
 90.00 23 17 22 4159.15 -1.28 169.70 233.49 61.71 24 26 41 3559.1 -5.05 163.05
 100.00 7 11 53 2576.61 -29.86 65.33 240.48 91.48 7 54 50 1976.6 -29.33 56.57
 100.00 0 29 42 3938.42 .07 152.73 232.74 60.11 1 35 20 3338.4 -3.91 146.20
 110.00 8 47 51 2276.41 -33.76 42.24 240.19 95.71 9 25 47 1676.4 -32.60 33.20
 110.00 1 10 14 3811.39 3.38 141.03 230.67 55.96 2 13 45 3211.4 -1.11 134.82

DIFFERENTIAL CORRECTIONS

TOE 1.3920 TRA 2.2286 TC3-1.6043 BAU .4202
 RDE -.3960 RRA-1.0803 RC3 .5156 FAU .10640
 FDE 6.8626 FRA11.0989 FC3-4.9384 BSP 12437
 BOE 1.4473 BRA 2.4766 BC3 1.6852 FSP -5655

MID-COURSE EXECUTION ACCURACY

SGT 3904.5 SGR 1674.6 SG3 1609.4
 RRT -.9778 RRF -.9816 RTF .9913
 SGB 4248.5 R23 .0264 R13 -.9927
 SG1 4236.1 SG2 323.2 THA 157.11

ORBIT DETERMINATION ACCURACY

ST 2074.7 SR 697.0 SS 2962.6
 CRT -.9703 CRS .9713 CST -1.0000
 LSA 3679.7 MSA 163.9 SSA 13.0
 EL1 2182.8 EL2 160.1 ALF 161.84

LAUNCH DATE NOV 17 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.910 GAL 6.45 AZL 87.82 MCA 232.13 SMA 130.65 ECC .17264 INC 2.1797 V1 30.126
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.710 GAP 2.62 AZP 91.34 TAL 145.87 TAP 18.00 RCA 108.10 APO 153.21 V2 34.804
 RC 87.691 GL 13.93 GP 17.64 ZAL 36.92 ZAP 118.20 ETS 9.86 ZAE 136.86 ETE 160.90 ZAC 78.04 ETC 168.73 CLP-119.73

PLANETOCENTRIC CONIC

C3 19.196 VML 4.381 CLA 20.73 RAL 13.06 RAD 6567.8 VEL 11.857 PTH 2.10 VMP 3.446 DPA 8.04 RAP 342.60 ECC 1.3159
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 30 2913.82 -28.29 90.15 241.29 88.64 6 19 4 2313.8 -28.18 81.48
 90.00 23 24 38 4139.53 -1.91 168.61 234.14 61.74 24 33 38 3539.5 -5.68 161.95
 100.00 7 5 35 2607.22 -29.89 67.61 241.30 90.28 7 49 2 2007.2 -29.53 58.82
 100.00 0 36 10 3921.36 -.51 151.79 233.36 60.11 1 41 31 3321.4 -4.48 145.26
 110.00 8 43 0 2302.44 -33.92 44.26 241.11 94.53 9 21 23 1702.4 -32.92 35.17
 110.00 1 15 14 3798.91 2.91 140.38 231.22 55.93 2 18 33 3198.9 -1.58 134.17

DIFFERENTIAL CORRECTIONS

TDE 1.5850 TRA 2.4964 TC3-1.6834 BAU .4475
 RDE -.3292 RRA -.9805 RC3 .4550 FAU .09857
 FDE 6.6009 FRA10.5307 FC3-4.4455 BSP 13503
 BDE 1.6188 BRA 2.6820 BC3 1.7438 FSP -5355

MID-COURSE EXECUTION ACCURACY

SGT 4319.4 SGR 1491.3 SG3 1512.6
 RRT -.9728 RRF -.9751 RTF .9923
 SGB 4569.6 R23 .0180 R13 -.9930
 SG1 4557.8 SG2 327.4 TMA 161.33

ORBIT DETERMINATION ACCURACY

ST 2322.7 SR 595.5 SS 2887.1
 CRT -.9569 CRS .9584 CST-1.0000
 LSA 3749.1 MSA 169.5 SSA 12.9
 EL1 2391.9 EL2 168.0 ALF 166.14

LAUNCH DATE NOV 17 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.904 GAL 6.58 AZL 87.71 MCA 235.29 SMA 130.61 ECC .17433 INC 2.2863 V1 30.126
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.701 GAP 3.05 AZP 91.30 TAL 145.51 TAP 20.80 RCA 107.84 APO 153.38 V2 34.799
 RC 90.065 GL 14.39 GP 16.32 ZAL 36.80 ZAP 122.54 ETS 10.74 ZAE 134.58 ETE 163.55 ZAC 77.18 ETC 168.67 CLP-124.09

PLANETOCENTRIC CONIC

C3 19.809 VML 4.451 CLA 21.27 RAL 13.15 RAD 6567.8 VEL 11.882 PTH 2.11 VMP 3.567 DPA 6.37 RAP 342.06 ECC 1.3260
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 24 2944.83 -28.22 92.41 242.15 87.51 6 13 28 2344.8 -28.26 83.75
 90.00 23 31 27 4123.40 -2.43 167.71 234.88 61.78 24 40 11 3523.4 -6.19 161.04
 100.00 7 0 14 2635.80 -29.88 69.73 242.21 89.16 7 44 10 2035.8 -29.68 60.93
 100.00 0 42 14 3907.66 -.98 151.04 234.07 60.12 1 47 22 3307.7 -4.94 144.50
 110.00 8 39 0 2326.80 -34.03 46.15 242.10 93.41 9 17 47 1726.8 -33.19 37.02
 110.00 1 19 57 3789.43 2.55 139.88 231.87 55.90 2 23 7 3189.4 -1.95 133.68

DIFFERENTIAL CORRECTIONS

TDE 1.7667 TRA 2.7479 TC3-1.7461 BAU .4745
 RDE -.2648 RRA -.8903 RC3 .4025 FAU .09083
 FDE 6.2806 FRA 9.9244 FC3-3.9696 BSP 14603
 BDE 1.7864 BRA 2.8886 BC3 1.7919 FSP -5044

MID-COURSE EXECUTION ACCURACY

SGT 4690.3 SGR 1325.6 SG3 1408.7
 RRT -.9652 RRF -.9663 RTF .9929
 SGB 4874.0 R23 .0118 R13 -.9933
 SG1 4862.5 SG2 334.5 TMA 164.67

ORBIT DETERMINATION ACCURACY

ST 2543.9 SR 502.4 SS 2796.0
 CRT -.9357 CRS .9378 CST-1.0000
 LSA 3809.3 MSA 174.7 SSA 12.7
 EL1 2587.2 EL2 174.3 ALF 169.48

LAUNCH DATE NOV 17 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.897 GAL 6.72 AZL 87.61 MCA 238.46 SMA 130.56 ECC .17627 INC 2.3850 V1 30.126
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.692 GAP 3.47 AZP 91.25 TAL 145.12 TAP 23.58 RCA 107.55 APO 153.58 V2 34.795
 RC 92.449 GL 14.75 GP 15.10 ZAL 36.63 ZAP 126.61 ETS 11.48 ZAE 132.42 ETE 165.69 ZAC 76.58 ETC 168.54 CLP-128.14

PLANETOCENTRIC CONIC

C3 20.495 VML 4.527 CLA 21.73 RAL 13.30 RAD 6567.8 VEL 11.911 PTH 2.12 VMP 3.708 DPA 4.92 RAP 341.74 ECC 1.3373
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 19 12 2973.94 -28.11 94.53 243.09 86.45 6 8 46 2373.9 -28.31 85.87
 90.00 23 37 51 4110.51 -2.85 166.99 235.71 61.81 24 46 22 3510.5 -6.59 160.31
 100.00 6 55 44 2662.65 -29.84 71.73 243.19 88.11 7 40 7 2062.6 -29.78 62.92
 100.00 0 47 56 3897.04 -1.34 150.46 234.87 60.13 1 52 53 3297.0 -5.30 143.91
 110.00 8 35 45 2349.77 -34.11 47.94 243.17 92.36 9 14 55 1749.8 -33.41 38.77
 110.00 1 24 25 3782.69 2.29 139.53 232.61 55.88 2 27 27 3182.7 -2.20 133.32

DIFFERENTIAL CORRECTIONS

TDE 1.9394 TRA 2.9880 TC3-1.7883 BAU .4996
 RDE -.2044 RRA -.8106 RC3 .3554 FAU .08280
 FDE 5.9358 FRA 9.3194 FC3-3.4976 BSP 15651
 BDE 1.9502 BRA 3.0960 BC3 1.8233 FSP -4712

MID-COURSE EXECUTION ACCURACY

SGT 5021.9 SGR 1179.0 SG3 1303.7
 RRT -.9545 RRF -.9547 RTF .9931
 SGB 5158.5 R23 .0076 R13 -.9934
 SG1 5147.0 SG2 342.9 TMA 167.31

ORBIT DETERMINATION ACCURACY

ST 2742.1 SR 420.4 SS 2698.5
 CRT -.9021 CRS .9053 CST-1.0000
 LSA 3865.8 MSA 179.7 SSA 12.7
 EL1 2768.3 EL2 179.7 ALF 172.09

LAUNCH DATE NOV 17 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.889 GAL 6.88 AZL 87.52 MCA 241.62 SMA 130.50 ECC .17849 INC 2.4772 V1 30.126
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.682 GAP 3.90 AZP 91.18 TAL 144.71 TAP 26.33 RCA 107.21 APO 153.80 V2 34.791
 RC 94.840 GL 15.04 GP 14.00 ZAL 36.42 ZAP 130.39 ETS 12.13 ZAE 130.41 ETE 167.42 ZAC 76.24 ETC 168.37 CLP-131.90

PLANETOCENTRIC CONIC

C3 21.260 VML 4.611 CLA 22.13 RAL 13.51 RAD 6567.9 VEL 11.943 PTH 2.13 VMP 3.866 DPA 3.69 RAP 341.63 ECC 1.3499
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 51 3001.39 -27.98 96.53 244.12 85.46 6 4 52 2401.4 -28.32 87.88
 90.00 23 43 52 4100.66 -3.16 166.44 236.63 61.85 24 52 13 3500.7 -6.90 159.75
 100.00 6 52 3 2687.97 -29.77 73.61 244.25 87.13 7 36 51 2088.0 -29.85 64.80
 100.00 0 53 17 3889.32 -1.60 150.03 235.76 60.15 1 58 7 3289.3 -5.56 143.49
 110.00 8 33 11 2371.55 -34.16 49.64 244.32 91.35 9 12 43 1771.6 -33.60 40.45
 110.00 1 28 38 3778.49 2.13 139.31 233.43 55.88 2 31 37 3178.5 -2.36 133.11

DIFFERENTIAL CORRECTIONS

TDE 2.1035 TRA 3.2189 TC3-1.8120 BAU .5227
 RDE -.1482 RRA -.7406 RC3 .3139 FAU .07486
 FDE 5.5829 FRA 8.7333 FC3-3.0486 BSP 16632
 BDE 2.1087 BRA 3.3030 BC3 1.8389 FSP -4375

MID-COURSE EXECUTION ACCURACY

SGT 5316.9 SGR 1051.0 SG3 1201.2
 RRT -.9403 RRF -.9396 RTF .9932
 SGB 5419.8 R23 .0046 R13 -.9934
 SG1 5408.4 SG2 351.6 TMA 169.43

ORBIT DETERMINATION ACCURACY

ST 2917.6 SR 350.4 SS 2597.8
 CRT -.8487 CRS .8532 CST -.9999
 LSA 3917.9 MSA 184.4 SSA 12.6
 EL1 2932.8 EL2 184.4 ALF 174.16

LAUNCH DATE NOV 17 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.880 GAL 7.06 AZL 87.44 HCA 244.78 SMA 130.44 ECC .18098 INC 2.5641 VI 30.126
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.673 GAP 4.34 AZP 91.09 TAL 144.27 TAP 29.05 RCA 106.83 APO 154.05 V2 34.788
 RC 97.236 GL 15.26 GP 13.00 ZAL 36.16 ZAP 133.91 ETS 12.70 ZAE 128.56 ETE 168.83 ZAC 76.14 ETC 168.16 CLP-135.37

PLANETOCENTRIC CONIC

C3 22.113 VHL 4.702 CLA 22.48 RAL 13.77 RAD 6567.9 VEL 11.979 PTH 2.13 VHP 4.041 DPA 2.64 RAP 341.73 ECC 1.3639
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 18 3027.33 -27.83 98.41 245.22 84.52 6 1 46 2427.3 -28.29 89.78
 90.00 23 49 31 4093.70 -3.39 166.05 237.62 61.87 24 57 45 3493.7 -7.12 159.36
 100.00 6 49 7 2711.95 -29.67 75.38 245.39 86.20 7 34 19 2111.9 -29.88 66.58
 100.00 0 58 19 3884.32 -1.77 149.76 236.73 60.15 2 3 4 3284.3 -5.73 143.21
 110.00 8 31 16 2392.34 -34.18 51.27 245.55 90.39 9 11 9 1792.3 -33.75 42.05
 110.00 1 32 39 3776.69 2.06 139.21 234.34 55.87 2 35 36 3176.7 -2.43 133.01

DIFFERENTIAL CORRECTIONS

TDE 2.2600 TRA 3.4436 TC3-1.8179 BAU .5436 SGT 5578.9 SGR 940.3 SG3 1103.5 ST 3072.6 SR 293.3 SS 2497.2
 RDE -.0962 RRA -.6794 RC3 .2773 FAU .06718 RRT -.9219 RRF -.9204 RTF .9932 CRT -.7648 CRS .7711 CST -.9999
 FDE 5.2357 FRA 8.1792 FC3-2.6299 BSP 17541 SGB 5657.5 R23 .0025 R13 -.9932 LSA 3965.7 MSA 188.7 SSA 12.7
 BDE 2.2620 BRA 3.5100 BC3 1.8389 FSP -4045 SG1 5646.1 SG2 360.0 THA 171.13 EL1 3080.8 EL2 188.5 ALF 175.81

LAUNCH DATE NOV 17 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.870 GAL 7.26 AZL 87.35 HCA 247.94 SMA 130.37 ECC .18376 INC 2.6466 VI 30.126
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.663 GAP 4.78 AZP 90.99 TAL 143.79 TAP 31.74 RCA 106.41 APO 154.32 V2 34.786
 RC 99.636 GL 15.42 GP 12.10 ZAL 35.87 ZAP 137.17 ETS 13.23 ZAE 126.88 ETE 169.98 ZAC 76.27 ETC 167.95 CLP-138.59

PLANETOCENTRIC CONIC

C3 23.061 VHL 4.802 CLA 22.77 RAL 14.08 RAD 6567.9 VEL 12.018 PTH 2.15 VHP 4.230 DPA 1.79 RAP 342.02 ECC 1.3795
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 8 31 3051.91 -27.65 100.19 246.40 83.65 5 59 23 2451.9 -28.24 91.58
 90.00 23 54 48 4089.52 -3.52 165.81 238.70 61.88 25 2 57 3489.5 -7.25 159.12
 100.00 6 46 53 2734.74 -29.56 77.07 246.61 85.32 7 32 28 2134.7 -29.89 68.28
 100.00 1 3 3 3681.92 -1.85 149.63 237.77 60.16 2 7 45 3281.9 -5.81 143.08
 110.00 8 29 57 2412.29 -34.18 52.82 246.86 89.47 9 10 9 1812.3 -33.88 43.59
 110.00 1 36 28 3777.14 2.08 139.24 235.32 55.87 2 39 25 3177.1 -2.41 133.03

DIFFERENTIAL CORRECTIONS

TDE 2.4128 TRA 3.6674 TC3-1.8036 BAU .5611 SGT 5814.4 SGR 845.6 SG3 1012.7 ST 3211.9 SR 250.0 SS 2401.2
 RDE -.0485 RRA -.6262 RC3 .2446 FAU .05957 RRT -.8987 RRF -.8964 RTF .9929 CRT -.6390 CRS .6474 CST -.9999
 FDE 4.9082 FRA 7.6694 FC3-2.2362 BSP 18306 SGB 5875.6 R23 .0010 R13 -.9930 LSA 4013.4 MSA 192.7 SSA 12.7
 BDE 2.4133 BRA 3.7205 BC3 1.8201 FSP -3712 SG1 5864.1 SG2 367.7 THA 172.52 EL1 3215.9 EL2 192.0 ALF 177.14

LAUNCH DATE NOV 17 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.859 GAL 7.48 AZL 87.27 HCA 251.10 SMA 130.29 ECC .18684 INC 2.7254 VI 30.126
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.653 GAP 5.23 AZP 90.88 TAL 143.30 TAP 34.40 RCA 105.94 APO 154.63 V2 34.784
 RC 102.038 GL 15.51 GP 11.28 ZAL 35.54 ZAP 140.21 ETS 13.73 ZAE 125.35 ETE 170.92 ZAC 76.61 ETC 167.75 CLP-141.58

PLANETOCENTRIC CONIC

C3 24.115 VHL 4.911 CLA 23.02 RAL 14.44 RAD 6568.0 VEL 12.062 PTH 2.16 VHP 4.435 DPA 1.10 RAP 342.49 ECC 1.3969
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 26 3075.24 -27.47 101.87 247.66 82.83 5 57 42 2475.2 -28.17 93.28
 90.00 0 3 39 4088.03 -3.57 165.73 239.84 61.89 1 11 47 3488.0 -7.30 159.04
 100.00 6 45 18 2756.48 -29.43 78.67 247.91 84.48 7 31 15 2156.5 -29.88 69.89
 100.00 1 7 28 3882.03 -1.84 149.63 238.88 60.16 2 12 10 3282.0 -5.80 143.08
 110.00 8 29 10 2431.52 -34.16 54.33 248.24 88.58 9 9 42 1831.5 -33.98 45.09
 110.00 1 40 6 3779.75 2.18 139.37 236.37 55.88 2 43 5 3179.8 -2.32 133.17

DIFFERENTIAL CORRECTIONS

TDE 2.5570 TRA 3.8868 TC3-1.7801 BAU .5781 SGT 6019.6 SGR 764.4 SG3 927.8 ST 3329.9 SR 220.4 SS 2304.5
 RDE -.0038 RRA -.5791 RC3 .2169 FAU .05287 RRT -.8699 RRF -.8668 RTF .9927 CRT -.4621 CRS .4727 CST -.9999
 FDE 4.5905 FRA 7.1927 FC3-1.8979 BSP 19067 SGB 6067.9 R23 -.0003 R13 -.9927 LSA 4050.7 MSA 196.3 SSA 12.7
 BDE 2.5570 BRA 3.9297 BC3 1.7932 FSP -3417 SG1 6058.3 SG2 374.7 THA 173.67 EL1 3331.4 EL2 195.3 ALF 178.24

LAUNCH DATE NOV 17 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

RL 147.89 LAL -0.00 LOL 54.71 VL 27.847 GAL 7.72 AZL 87.20 HCA 254.26 SMA 130.20 ECC .19024 INC 2.8013 VI 30.126
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.644 GAP 5.68 AZP 90.76 TAL 142.78 TAP 37.04 RCA 105.43 APO 154.97 V2 34.783
 RC 104.441 GL 15.56 GP 10.55 ZAL 35.17 ZAP 143.03 ETS 14.22 ZAE 123.97 ETE 171.71 ZAC 77.13 ETC 167.55 CLP-144.36

PLANETOCENTRIC CONIC

C3 25.286 VHL 5.028 CLA 23.23 RAL 14.84 RAD 6568.0 VEL 12.110 PTH 2.17 VHP 4.653 DPA .57 RAP 343.12 ECC 1.4161
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 3 3097.44 -27.27 103.47 249.00 82.05 5 56 40 2497.4 -28.09 94.90
 90.00 0 8 13 4089.14 -3.53 165.79 241.05 61.89 1 16 22 3489.1 -7.27 159.10
 100.00 6 44 21 2777.28 -29.28 80.20 249.28 83.69 7 30 38 2177.3 -29.84 71.44
 100.00 1 11 36 3884.54 -1.76 149.77 240.07 60.15 2 16 21 3284.5 -5.72 143.22
 110.00 8 28 54 2450.15 -34.12 55.78 249.71 87.72 9 9 45 1850.2 -34.06 46.54
 110.00 1 43 32 3784.43 2.36 139.62 237.50 55.89 2 46 37 3184.4 -2.14 133.42

DIFFERENTIAL CORRECTIONS

TDE 2.6968 TRA 4.1075 TC3-1.7436 BAU .5930 SGT 6201.3 SGR 695.3 SG3 849.8 ST 3432.1 SR 204.6 SS 2211.6
 RDE -.0379 RRA -.5375 RC3 .1925 FAU .04665 RRT -.8351 RRF -.8312 RTF .9924 CRT -.2465 CRS .2591 CST -.9999
 FDE 4.2940 FRA 6.7580 FC3-1.5971 BSP 19755 SGB 6240.1 R23 -.0014 R13 -.9924 LSA 4083.2 MSA 199.6 SSA 12.7
 BDE 2.6970 BRA 4.1425 BC3 1.7542 FSP -3140 SG1 6228.5 SG2 380.8 THA 174.63 EL1 3432.5 EL2 198.3 ALF 179.16

LAUNCH DATE NOV 17 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 581.982

RL 147.89 LAL -1.00 LOL 54.71 VL 27.834 GAL 7.99 AZL 87.13 MCA 257.42 SMA 130.11 ECC .19397 INC 2.8749 V1 30.126
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.634 GAP 6.15 AZP 90.63 TAL 142.24 TAP 39.66 RCA 104.87 APO 155.35 V2 34.783
 RC 106.844 GL 15.55 GP 9.89 ZAL 34.77 ZAP 145.66 ETS 14.72 ZAE 122.73 ETE 172.36 ZAC 77.82 ETC 167.36 CLP-146.95

PLANETOCENTRIC CONIC

C3 26.586 VHL 5.156 DLA 23.40 RAL 15.27 RAD 6568.1 VEL 12.164 PTH 2.18 VHP 4.886 DPA .17 RAP 343.89 ECC 1.4375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 19 3118.59 -27.06 104.98 250.41 81.32 5 56 17 2518.6 -27.98 96.44
 90.00 0 12 26 4092.81 -3.42 166.00 242.33 61.87 1 20 39 3492.8 -7.15 159.31
 100.00 6 43 59 2797.23 -29.12 81.66 250.74 82.94 7 30 36 2197.2 -29.79 72.92
 100.00 1 15 27 3889.40 -1.59 150.04 241.32 60.15 2 20 16 3249.4 -5.56 143.49
 110.00 8 29 7 2468.29 -34.06 57.19 251.25 86.89 9 10 16 1868.3 -34.11 47.95
 110.00 1 46 48 3791.10 2.61 139.97 238.70 55.90 2 49 59 3191.1 -1.88 133.76

DIFFERENTIAL CORRECTIONS

TDE 2.8334 TRA 4.3315 TC3-1.6960 BAU .6059
 ROE .0769 RRA -.5004 RC3 .1709 FAU .04093
 FDE 4.0201 FRA 6.3636 FC3-1.3328 BSP 20384
 BOE 2.8345 BRA 4.3603 BC3 1.7046 FSP -2885

MID-COURSE EXECUTION ACCURACY

SGT 6362.0 SGR 636.8 SG3 778.6
 RRT -.7940 RRF -.7892 RTF .9920
 SGB 6393.8 R23 -.0023 R13 -.9920
 SG1 6382.2 SG2 385.9 THA 175.44

ORBIT DETERMINATION ACCURACY

ST 3520.1 SR 200.9 SS 2123.3
 CRT -.0243 CRS .0382 CST -.9999
 LSA 4110.8 MSA 202.5 SSA 12.6
 EL1 3520.1 EL2 200.9 ALF 179.92

LAUNCH DATE NOV 17 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 587.919

RL 147.89 LAL -1.00 LOL 54.71 VL 27.820 GAL 8.27 AZL 87.05 MCA 260.58 SMA 130.02 ECC .19805 INC 2.9466 V1 30.126
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.625 GAP 6.63 AZP 90.48 TAL 141.67 TAP 42.25 RCA 104.27 APO 155.77 V2 34.784
 RC 109.246 GL 15.50 GP 9.30 ZAL 34.34 ZAP 148.12 ETS 15.24 ZAE 121.60 ETE 172.92 ZAC 78.66 ETC 167.20 CLP-149.37

PLANETOCENTRIC CONIC

C3 28.032 VHL 5.295 DLA 23.53 RAL 15.74 RAD 6568.1 VEL 12.223 PTH 2.20 VHP 5.132 DPA -.09 RAP 344.79 ECC 1.4613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 12 3138.77 -26.84 106.42 251.91 80.63 5 56 30 2538.8 -27.86 97.90
 90.00 0 16 18 4098.97 -3.22 166.34 243.67 61.85 1 24 37 3499.0 -6.96 159.66
 100.00 6 44 10 2816.43 -28.95 83.06 252.26 82.22 7 31 6 2216.4 -29.73 74.34
 100.00 1 19 1 3896.54 -1.35 150.43 242.63 60.14 2 23 57 3296.5 -5.32 143.89
 110.00 8 29 47 2486.02 -33.98 58.57 252.87 86.07 9 11 13 1886.0 -34.15 49.33
 110.00 1 49 53 3799.71 2.94 140.42 239.96 55.93 2 53 13 3199.7 -1.55 134.21

DIFFERENTIAL CORRECTIONS

TDE 2.9679 TRA 4.5612 TC3-1.6376 BAU .6163
 ROE .1138 RRA -.4672 RC3 .1517 FAU .03564
 FDE 3.7682 FRA 6.0078 FC3-1.1008 BSP 20940
 BOE 2.9701 BRA 4.5850 BC3 1.6446 FSP -2649

MID-COURSE EXECUTION ACCURACY

SGT 6504.3 SGR 587.3 SG3 713.9
 RRT -.7464 RRF -.7408 RTF .9917
 SGB 6530.8 R23 -.0031 R13 -.9917
 SG1 6519.1 SG2 390.0 THA 176.13

ORBIT DETERMINATION ACCURACY

ST 3595.4 SR 206.3 SS 2039.6
 CRT -.1725 CRS -.1580 CST -.9999
 LSA 4133.6 MSA 205.0 SSA 12.8
 EL1 3595.5 EL2 203.2 ALF .57

LAUNCH DATE NOV 17 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 593.815

RL 147.89 LAL -1.00 LOL 54.71 VL 27.806 GAL 8.59 AZL 86.98 MCA 263.74 SMA 129.91 ECC .20252 INC 3.0171 V1 30.126
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.615 GAP 7.12 AZP 90.33 TAL 141.09 TAP 44.83 RCA 103.60 APO 156.23 V2 34.785
 RC 111.645 GL 15.42 GP 8.77 ZAL 33.88 ZAP 150.43 ETS 15.80 ZAE 120.59 ETE 173.39 ZAC 79.63 ETC 167.05 CLP-151.65

PLANETOCENTRIC CONIC

C3 29.641 VHL 5.444 DLA 23.63 RAL 16.24 RAD 6568.2 VEL 12.289 PTH 2.21 VHP 5.393 DPA -.25 RAP 345.80 ECC 1.4878
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 40 3158.06 -26.62 107.79 253.47 79.98 5 57 18 2558.1 -27.74 99.30
 90.00 0 19 49 4107.57 -2.94 166.82 245.07 61.82 1 28 16 3507.6 -6.69 160.15
 100.00 6 44 53 2834.96 -28.77 84.41 253.87 81.53 7 32 8 2235.0 -29.65 75.72
 100.00 1 22 17 3905.91 -1.04 150.95 244.01 60.12 2 27 23 3305.9 -5.00 144.41
 110.00 8 30 51 2503.42 -33.89 59.92 254.56 85.28 9 12 34 1903.4 -34.18 50.69
 110.00 1 52 48 3810.21 3.34 140.97 241.28 55.96 2 56 19 3210.2 -1.15 134.76

DIFFERENTIAL CORRECTIONS

TDE 3.1044 TRA 4.8016 TC3-1.5666 BAU .6231
 ROE .1485 RRA -.4370 RC3 .1341 FAU .03059
 FDE 3.5423 FRA 5.6913 FC3 -.8936 BSP 21371
 BOE 3.1079 BRA 4.8214 BC3 1.5723 FSP -2423

MID-COURSE EXECUTION ACCURACY

SGT 6633.7 SGR 545.7 SG3 655.7
 RRT -.6926 RRF -.6861 RTF .9912
 SGB 6656.1 R23 -.0039 R13 -.9912
 SG1 6644.5 SG2 393.0 THA 176.73

ORBIT DETERMINATION ACCURACY

ST 3662.5 SR 217.1 SS 1962.9
 CRT .3286 CRS -.3141 CST -.9999
 LSA 4155.9 MSA 207.0 SSA 12.8
 EL1 3663.2 EL2 205.0 ALF 1.12

LAUNCH DATE NOV 17 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 599.666

RL 147.89 LAL -1.00 LOL 54.71 VL 27.791 GAL 8.93 AZL 86.91 MCA 266.90 SMA 129.81 ECC .20740 INC 3.0868 V1 30.126
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.606 GAP 7.62 AZP 90.17 TAL 140.50 TAP 47.40 RCA 102.89 APO 156.73 V2 34.787
 RC 114.042 GL 15.29 GP 8.29 ZAL 33.40 ZAP 152.60 ETS 16.41 ZAE 119.67 ETE 173.79 ZAC 80.72 ETC 166.92 CLP-153.79

PLANETOCENTRIC CONIC

C3 31.434 VHL 5.607 DLA 23.70 RAL 16.77 RAD 6568.3 VEL 12.361 PTH 2.23 VHP 5.669 DPA -.30 RAP 346.92 ECC 1.5173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 42 3176.53 -26.40 109.09 255.11 79.36 5 58 38 2576.5 -27.60 100.63
 90.00 0 22 58 4118.58 -2.59 167.44 246.52 61.79 1 31 37 3518.6 -6.34 160.77
 100.00 6 46 5 2852.89 -28.59 85.71 255.54 80.87 7 33 37 2252.9 -29.55 77.04
 100.00 1 25 17 3917.45 -1.64 151.58 245.44 60.11 2 30 34 3317.5 -4.62 145.04
 110.00 8 32 18 2520.56 -33.79 61.25 256.33 84.50 9 14 19 1920.6 -34.18 52.03
 110.00 1 55 33 3822.55 3.81 141.61 242.67 56.00 2 59 15 3222.5 -1.68 135.40

DIFFERENTIAL CORRECTIONS

TDE 3.2369 TRA 5.0477 TC3-1.4926 BAU .6292
 ROE .1822 RRA -.4088 RC3 .1187 FAU .02621
 FDE 3.3312 FRA 5.4025 FC3 -.7219 BSP 21830
 BOE 3.2421 BRA 5.0642 BC3 1.4973 FSP -2228

MID-COURSE EXECUTION ACCURACY

SGT 6744.0 SGR 510.5 SG3 602.3
 RRT -.6325 RRF -.6253 RTF .9908
 SGB 6763.3 R23 -.0046 R13 -.9908
 SG1 6751.8 SG2 394.9 THA 177.25

ORBIT DETERMINATION ACCURACY

ST 3715.0 SR 231.1 SS 1888.3
 CRT .4476 CRS -.4333 CST -.9998
 LSA 4168.6 MSA 208.7 SSA 12.7
 EL1 3716.5 EL2 206.6 ALF 1.60

LAUNCH DATE NOV 18 1968

FLIGHT TIME 70.00

ARRIVAL DATE JAN 27 1969

HELIOCENTRIC CONIC

DISTANCE 122.257

RL 147.86 LAL .00 LOL 55.72 VL 13.864 GAL 40.41 AZL 89.20 HCA 26.77 SMA 82.80 ECC .88221 INC .8001 V1 30.133
 RP 107.72 LAP .36 LOP 82.49 VP 29.344 GAP -60.41 AZP 89.29 TAL 173.12 TAP 199.89 RCA 9.75 APO 155.84 V2 35.179
 RC 103.094 GL .39 GP -1.18 ZAL 64.47 ZAP 39.27 ETS 176.17 ZAE 127.68 ETE 183.26 ZAC 39.15 ETC 153.12 CLP 39.25

PLANETOCENTRIC CONIC

C3 470.666 VHL 21.695 DLA -3.11 RAL 351.81 RAD 6572.3 VEL 24.330 PTH 3.32 VHP 32.730 DPA -23.29 RAP 304.76 ECC 8.7460
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 22 57 2738.22 -27.90 77.33 256.91 95.05 8 8 35 2138.2 -26.91 68.80
 90.00 18 34 49 5575.21 28.25 260.37 260.23 91.99 20 7 44 4975.2 28.23 251.70
 100.00 8 42 51 2480.51 -29.48 58.22 256.75 95.20 9 24 11 1880.5 -28.44 49.56
 100.00 19 57 36 5308.15 29.84 240.79 260.29 91.94 21 26 4 4708.2 29.79 231.99
 110.00 9 47 45 2277.30 -33.77 42.31 256.27 95.67 10 25 43 1677.3 -32.61 33.27
 110.00 21 9 11 5084.13 34.14 223.95 260.46 91.82 22 33 55 4484.1 34.02 214.71

DIFFERENTIAL CORRECTIONS

TDE-1.0235 TRA-2.4015 TC3 -.1033 BAU .6504
 ROE-1.5388 RRA .8208 RC3 -.0041 FAU .01003
 FDE .3839 FRA .7862 FC3 -.0185 BSP 1957
 BDE 1.8481 BRA 2.5379 BC3 .1034 FSP -43

MID-COURSE EXECUTION ACCURACY

SGT 823.0 SGR 461.1 SG3 21.2
 RRT -.0530 RRF .0475 RTF -.6135
 SGB 943.4 R23 -.0002 R13 .6137
 SG1 823.5 SG2 460.1 THA 177.53

ORBIT DETERMINATION ACCURACY

ST 331.0 SR 411.6 SS 336.7
 CRT .7153 CRS .7579 CST .9962
 LSA 584.5 MSA 224.7 SSA 14.2
 EL1 491.3 EL2 193.8 ALF 53.53

LAUNCH DATE NOV 18 1968

FLIGHT TIME 72.00

ARRIVAL DATE JAN 29 1969

HELIOCENTRIC CONIC

DISTANCE 127.229

RL 147.86 LAL .00 LOL 55.72 VL 14.708 GAL 36.23 AZL 88.90 HCA 30.00 SMA 84.06 ECC .85930 INC 1.1001 V1 30.133
 RP 107.69 LAP .53 LOP 85.72 VP 29.764 GAP -57.79 AZP 89.05 TAL 172.16 TAP 202.16 RCA 11.83 APO 156.30 V2 35.188
 RC 100.871 GL .61 GP -1.20 ZAL 63.01 ZAP 37.72 ETS 176.13 ZAE 127.33 ETE 183.56 ZAC 40.70 ETC 154.03 CLP 37.71

PLANETOCENTRIC CONIC

C3 434.794 VHL 20.852 DLA -2.33 RAL 353.07 RAD 6572.2 VEL 23.582 PTH 3.30 VHP 31.626 DPA -22.99 RAP 306.57 ECC 8.1556
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 22 10 2755.42 -28.00 78.58 258.04 94.43 8 8 5 2155.4 -27.09 70.03
 90.00 18 45 38 5543.98 28.31 258.09 260.53 90.85 20 18 2 4944.0 28.12 249.42
 100.00 8 42 26 2496.53 -29.57 59.40 257.89 94.59 9 24 2 1896.5 -28.62 50.72
 100.00 20 8 3 5278.10 29.88 238.56 260.55 90.77 21 36 1 4678.1 29.67 229.76
 110.00 9 48 11 2290.69 -33.85 43.35 257.47 95.06 10 26 21 1690.7 -32.78 34.28
 110.00 21 18 47 5056.70 34.18 221.81 260.61 90.55 22 43 4 4456.7 33.88 212.58

DIFFERENTIAL CORRECTIONS

TDE-1.0361 TRA-2.4326 TC3 -.1105 BAU .6432
 ROE-1.4963 RRA .8062 RC3 -.0048 FAU .00997
 FDE .4012 FRA .8155 FC3 -.0199 BSP 2072
 BDE 1.8200 BRA 2.5627 BC3 .1107 FSP -47

MID-COURSE EXECUTION ACCURACY

SGT 860.9 SGR 467.6 SG3 22.7
 RRT -.0546 RRF .0492 RTF -.6320
 SGB 979.7 R23 -.0003 R13 .6321
 SG1 861.4 SG2 466.6 THA 177.59

ORBIT DETERMINATION ACCURACY

ST 348.6 SR 416.5 SS 353.0
 CRT .7143 CRS .7593 CST .9961
 LSA 605.1 MSA 230.8 SSA 14.4
 EL1 504.4 EL2 201.4 ALF 52.03

LAUNCH DATE NOV 18 1968

FLIGHT TIME 74.00

ARRIVAL DATE JAN 31 1969

HELIOCENTRIC CONIC

DISTANCE 132.355

RL 147.86 LAL .00 LOL 55.72 VL 15.508 GAL 36.27 AZL 88.65 HCA 33.23 SMA 85.37 ECC .83566 INC 1.3470 V1 30.133
 RP 107.67 LAP .74 LOP 88.95 VP 30.178 GAP -55.32 AZP 88.87 TAL 171.20 TAP 204.44 RCA 14.03 APO 156.71 V2 35.198
 RC 98.647 GL .84 GP -1.23 ZAL 61.59 ZAP 36.21 ETS 176.08 ZAE 127.04 ETE 183.87 ZAC 42.29 ETC 154.88 CLP 36.19

PLANETOCENTRIC CONIC

C3 401.883 VHL 20.047 DLA -1.56 RAL 354.28 RAD 6572.1 VEL 22.873 PTH 3.27 VHP 30.558 DPA -22.67 RAP 308.40 ECC 7.6140
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 21 16 2771.96 -28.08 79.78 259.08 93.83 8 7 28 2172.0 -27.25 71.21
 90.00 18 56 11 5512.64 28.32 255.79 260.75 89.70 20 28 4 4912.6 27.97 247.14
 100.00 8 41 53 2511.91 -29.65 60.53 258.96 94.00 9 23 45 1911.9 -28.78 51.84
 100.00 20 18 15 5247.92 29.89 236.31 260.74 89.59 21 45 43 4647.9 29.51 227.53
 110.00 9 48 28 2303.49 -33.92 44.34 258.59 94.48 10 26 51 1703.5 -32.93 35.24
 110.00 21 28 10 5029.10 34.18 219.65 260.69 89.27 22 51 59 4429.1 33.70 210.44

DIFFERENTIAL CORRECTIONS

TDE-1.0490 TRA-2.4648 TC3 -.1181 BAU .6354
 ROE-1.4536 RRA .7904 RC3 -.0057 FAU .00993
 FDE .4188 FRA .8451 FC3 -.0214 BSP 2189
 BDE 1.7925 BRA 2.5884 BC3 .1183 FSP -51

MID-COURSE EXECUTION ACCURACY

SGT 900.4 SGR 473.5 SG3 24.4
 RRT -.0562 RRF .0509 RTF -.6498
 SGB 1017.3 R23 -.0006 R13 .6500
 SG1 901.0 SG2 472.4 THA 177.67

ORBIT DETERMINATION ACCURACY

ST 367.1 SR 420.9 SS 369.5
 CRT .7133 CRS .7606 CST .9959
 LSA 626.3 MSA 236.7 SSA 14.7
 EL1 517.9 EL2 209.1 ALF 50.44

LAUNCH DATE NOV 18 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 2 1969

HELIOCENTRIC CONIC

DISTANCE 137.626

RL 147.86 LAL .00 LOL 55.72 VL 16.266 GAL 34.49 AZL 88.45 HCA 36.47 SMA 86.71 ECC .81150 INC 1.5546 V1 30.133
 RP 107.64 LAP .92 LOP 92.18 VP 30.584 GAP -52.98 AZP 88.75 TAL 170.24 TAP 206.71 RCA 16.35 APO 157.08 V2 35.206
 RC 96.423 GL 1.08 GP -1.26 ZAL 60.22 ZAP 34.71 ETS 176.02 ZAE 126.80 ETE 184.20 ZAC 43.91 ETC 155.68 CLP 34.69

PLANETOCENTRIC CONIC

C3 371.639 VHL 19.278 DLA -.80 RAL 355.44 RAD 6572.0 VEL 22.202 PTH 3.24 VHP 29.524 DPA -22.32 RAP 310.25 ECC 7.1162
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 20 14 2787.85 -28.14 80.94 260.05 93.25 8 6 42 2187.8 -27.40 72.35
 90.00 19 6 29 5481.14 28.28 253.49 260.90 88.55 20 37 51 4881.1 27.78 244.86
 100.00 8 41 13 2526.65 -29.71 61.63 259.94 93.42 9 23 19 1926.7 28.92 52.91
 100.00 20 28 12 5217.57 29.85 234.06 260.85 88.40 21 55 10 4617.6 29.31 225.30
 110.00 9 48 36 2315.68 -33.98 45.29 259.62 93.92 10 27 12 1715.7 -33.07 36.17
 110.00 21 37 18 5001.30 34.13 217.48 260.69 87.99 23 0 39 4401.3 33.48 208.30

DIFFERENTIAL CORRECTIONS

TDE-1.0583 TRA-2.4942 TC3 -.1256 BAU .6249
 ROE-1.4106 RRA .7733 RC3 -.0066 FAU .00991
 FDE .4363 FRA .8748 FC3 -.0231 BSP 2392
 BDE 1.7635 BRA 2.6113 BC3 .1258 FSP -57

MID-COURSE EXECUTION ACCURACY

SGT 939.7 SGR 478.8 SG3 26.3
 RRT -.0582 RRF .0528 RTF -.6670
 SGB 1054.7 R23 -.0005 R13 .6671
 SG1 940.3 SG2 477.7 THA 177.71

ORBIT DETERMINATION ACCURACY

ST 385.5 SR 424.9 SS 386.1
 CRT .7115 CRS .7617 CST .9957
 LSA 647.5 MSA 242.4 SSA 14.9
 EL1 531.2 EL2 216.6 ALF 48.90

LAUNCH DATE NOV 18 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 4 1969

HELIOCENTRIC CONIC

DISTANCE 143.034

RL 147.86 LAL .00 LOL 55.72 VL 16.983 GAL 32.86 AZL 88.27 MCA 39.71 SMA 88.08 ECC .78701 INC 1.7330 V1 30.133
 RP 107.61 LAP 1.11 LOP 95.41 VP 30.981 GAP -50.75 AZP 88.67 TAL 169.27 TAP 208.98 RCA 18.76 APO 157.41 V2 35.214
 RC 94.200 GL 1.33 GP -1.29 ZAL 58.90 ZAP 33.25 ETS 175.95 ZAE 126.62 ETE 184.54 ZAC 45.57 ETC 156.43 CLP 33.22

PLANETOCENTRIC CONIC

C3 343.810 VHL 18.542 DLA -.04 RAL 356.56 RAD 6571.9 VEL 21.567 PTH 3.22 VHP 28.522 DPA -21.95 RAP 312.12 ECC 6.6582
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 19 5 2803.10 -28.20 82.05 260.94 92.70 8 5 48 2203.1 -27.53 73.45
 90.00 19 16 34 5449.44 28.21 251.17 260.98 87.39 20 47 23 4849.4 27.55 242.57
 100.00 8 40 25 2540.77 -29.77 62.67 260.85 92.88 9 22 45 1940.8 -29.05 53.94
 100.00 20 37 55 5187.00 29.77 231.79 260.89 87.21 22 4 22 4587.0 29.07 223.06
 110.00 9 48 37 2327.28 -34.03 46.19 260.57 93.39 10 27 24 1727.3 -33.19 37.05
 110.00 21 46 12 4973.26 34.04 215.30 260.62 86.70 23 9 6 4373.3 33.21 206.16

DIFFERENTIAL CORRECTIONS

TDE-1.0706 TRA-2.5268 TC3 -.1336 BAU .6153
 RDE-1.3674 RRA .7553 RC3 -.0077 FAU .00988
 FDE .4545 FRA .9034 FC3 -.0249 BSP 2533
 BOE 1.7367 BRA 2.6373 BC3 .1339 FSP -62

MID-COURSE EXECUTION ACCURACY

SGT 982.2 SGR 483.5 SG3 28.2
 RRT -.0596 RRF .0544 RTF -.6837
 SGB 1094.8 R23 -.0007 R13 .6838
 SG1 982.8 SG2 482.4 THA 177.78

ORBIT DETERMINATION ACCURACY

ST 405.6 SR 428.3 SS 403.2
 CRT .7103 CRS .7628 CST .9956
 LSA 670.1 MSA 247.7 SSA 15.1
 EL1 545.7 EL2 224.1 ALF 47.19

LAUNCH DATE NOV 18 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 6 1969

HELIOCENTRIC CONIC

DISTANCE 148.570

RL 147.86 LAL .00 LOL 55.72 VL 17.661 GAL 31.35 AZL 88.11 MCA 42.94 SMA 89.48 ECC .76236 INC 1.8885 V1 30.133
 RP 107.59 LAP 1.29 LOP 98.65 VP 31.366 GAP -48.64 AZP 88.62 TAL 168.31 TAP 211.26 RCA 21.26 APO 157.70 V2 35.222
 RC 91.981 GL 1.60 GP -1.32 ZAL 57.62 ZAP 31.80 ETS 175.87 ZAE 126.51 ETE 184.90 ZAC 47.25 ETC 157.14 CLP 31.78

PLANETOCENTRIC CONIC

C3 318.174 VHL 17.837 DLA .71 RAL 357.63 RAD 6571.8 VEL 20.964 PTH 3.19 VHP 27.549 DPA -21.56 RAP 314.00 ECC 6.2363
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 17 48 2817.73 -28.24 83.12 261.74 92.16 8 4 45 2217.7 -27.64 74.50
 90.00 19 26 25 5417.50 28.08 248.84 260.98 86.23 20 56 42 4817.5 27.27 240.27
 100.00 8 39 28 2554.28 -29.81 63.67 261.67 92.35 9 22 2 1954.3 -29.16 54.93
 100.00 20 47 25 5156.19 29.65 229.51 260.86 86.01 22 13 21 4556.2 28.78 220.81
 110.00 9 48 29 2338.28 -34.08 47.05 261.44 92.89 10 27 27 1738.3 -33.30 37.89
 110.00 21 54 54 4944.95 33.91 213.10 260.48 85.40 23 17 19 4344.9 32.90 204.00

DIFFERENTIAL CORRECTIONS

TDE-1.0830 TRA-2.5597 TC3 -.1420 BAU .6051
 RDE-1.3240 RRA .7363 RC3 -.0089 FAU .00987
 FDE .4730 FRA .9366 FC3 -.0269 BSP 2679
 BOE 1.7105 BRA 2.6635 BC3 .1422 FSP -67

MID-COURSE EXECUTION ACCURACY

SGT 1026.5 SGR 487.7 SG3 30.3
 RRT -.0610 RRF .0560 RTF -.6998
 SGB 1136.4 R23 -.0010 R13 .6999
 SG1 1027.0 SG2 486.5 THA 177.86

ORBIT DETERMINATION ACCURACY

ST 426.7 SR 431.2 SS 420.7
 CRT .7090 CRS .7638 CST .9954
 LSA 693.5 MSA 252.7 SSA 15.3
 EL1 560.8 EL2 231.4 ALF 45.42

LAUNCH DATE NOV 18 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 8 1969

HELIOCENTRIC CONIC

DISTANCE 154.227

RL 147.86 LAL .00 LOL 55.72 VL 18.303 GAL 29.95 AZL 87.97 MCA 46.19 SMA 90.89 ECC .73768 INC 2.0263 V1 30.133
 RP 107.57 LAP 1.46 LOP 101.89 VP 31.740 GAP -46.62 AZP 88.60 TAL 167.36 TAP 213.54 RCA 23.84 APO 157.94 V2 35.229
 RC 89.765 GL 1.87 GP -1.36 ZAL 56.39 ZAP 30.37 ETS 175.77 ZAE 126.45 ETE 185.28 ZAC 48.96 ETC 157.81 CLP 30.35

PLANETOCENTRIC CONIC

C3 294.532 VHL 17.162 DLA 1.46 RAL 358.66 RAD 6571.7 VEL 20.392 PTH 3.16 VHP 26.606 DPA -21.14 RAP 315.90 ECC 5.8473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 16 22 2831.74 -28.27 84.14 262.47 91.65 8 3 34 2231.7 -27.74 75.52
 90.00 19 36 2 5385.28 27.92 246.50 260.92 85.06 21 5 48 4785.3 26.94 237.97
 100.00 8 38 23 2567.18 -29.84 64.63 262.41 91.85 9 21 10 1967.2 -29.27 55.87
 100.00 20 56 42 5125.08 29.48 227.21 260.76 84.82 22 22 7 4525.1 28.45 218.56
 110.00 9 48 11 2348.69 -34.11 47.86 262.22 92.41 10 27 20 1748.7 -33.40 38.69
 110.00 22 3 23 4916.33 33.73 210.88 260.28 84.10 23 25 20 4316.3 32.55 201.85

DIFFERENTIAL CORRECTIONS

TDE-1.0946 TRA-2.5920 TC3 -.1505 BAU .5939
 RDE-1.2805 RRA .7164 RC3 -.0102 FAU .00988
 FDE .4920 FRA .9683 FC3 -.0290 BSP 2841
 BOE 1.6846 BRA 2.6892 BC3 .1508 FSP -73

MID-COURSE EXECUTION ACCURACY

SGT 1072.2 SGR 491.1 SG3 32.5
 RRT -.0623 RRF .0576 RTF -.7153
 SGB 1179.3 R23 -.0012 R13 .7154
 SG1 1072.8 SG2 489.9 THA 177.93

ORBIT DETERMINATION ACCURACY

ST 448.6 SR 433.5 SS 438.6
 CRT .7076 CRS .7648 CST .9952
 LSA 717.6 MSA 257.4 SSA 15.5
 EL1 576.5 EL2 238.3 ALF 43.61

LAUNCH DATE NOV 18 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 10 1969

HELIOCENTRIC CONIC

DISTANCE 159.998

RL 147.86 LAL .00 LOL 55.72 VL 18.910 GAL 28.64 AZL 87.85 MCA 49.43 SMA 92.32 ECC .71310 INC 2.1499 V1 30.133
 RP 107.55 LAP 1.63 LOP 105.13 VP 32.100 GAP -44.70 AZP 88.60 TAL 166.41 TAP 215.84 RCA 26.49 APO 158.15 V2 35.235
 RC 87.555 GL 2.16 GP -1.40 ZAL 55.20 ZAP 28.97 ETS 175.65 ZAE 126.44 ETE 185.67 ZAC 50.70 ETC 158.45 CLP 28.94

PLANETOCENTRIC CONIC

C3 272.714 VHL 16.514 DLA 2.20 RAL 359.65 RAD 6571.6 VEL 19.850 PTH 3.13 VHP 25.689 DPA -20.71 RAP 317.80 ECC 5.4882
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 14 48 2845.16 -28.30 85.12 263.11 91.16 8 2 13 2245.2 -27.83 76.49
 90.00 19 45 28 5352.72 27.71 244.14 260.79 83.90 21 14 41 4752.7 26.57 235.66
 100.00 8 37 10 2579.48 -29.86 65.55 263.07 91.37 9 20 9 1979.5 -29.36 56.78
 100.00 21 5 47 5093.63 29.27 224.90 260.59 83.62 22 30 41 4493.6 28.07 216.30
 110.00 9 47 45 2358.52 -34.13 48.63 262.92 91.95 10 27 4 1758.5 -33.49 39.44
 110.00 22 11 41 4887.36 33.51 208.65 260.00 82.80 23 33 8 4287.4 32.15 199.68

DIFFERENTIAL CORRECTIONS

TDE-1.1067 TRA-2.6244 TC3 -.1593 BAU .5823
 RDE-1.2368 RRA .6957 RC3 -.0116 FAU .00989
 FDE .5115 FRA 1.0007 FC3 -.0314 BSP 2999
 BOE 1.6597 BRA 2.7151 BC3 .1597 FSP -79

MID-COURSE EXECUTION ACCURACY

SGT 1120.1 SGR 493.9 SG3 34.9
 RRT -.0635 RRF .0590 RTF -.7302
 SGB 1224.1 R23 -.0015 R13 .7303
 SG1 1120.6 SG2 492.7 THA 178.01

ORBIT DETERMINATION ACCURACY

ST 471.6 SR 435.2 SS 456.8
 CRT .7064 CRS .7658 CST .9950
 LSA 742.8 MSA 261.6 SSA 15.7
 EL1 593.1 EL2 244.9 ALF 41.75

LAUNCH DATE NOV 18 1968

FLIGHT TIME 86.80

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 165.875

RL 147.86 LAL .00 LOL 55.72 VL 19.483 GAL 27.40 AZL 87.74 MCA 52.67 SMA 93.76 ECC .68872 INC 2.2622 V1 30.133
 RP 107.53 LAP 1.80 LOP 108.37 VP 32.447 GAP -42.86 AZP 88.63 TAL 165.47 TAP 218.14 RCA 29.18 APO 158.33 V2 35.240
 RC 85.353 GL 2.46 GP -1.45 ZAL 54.05 ZAP 27.58 ETS 175.51 ZAE 126.51 ETE 186.08 ZAC 52.46 ETC 159.04 CLP 27.55

PLANETOCENTRIC CONIC

C3 252.565 VHL 15.892 OLA 2.94 RAL .59 RAD 6571.5 VEL 19.336 PTH 3.10 VHP 24.799 DPA -20.25 RAP 319.72 ECC 5.1566
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 13 4 2858.01 -28.31 86.06 263.67 90.69 8 0 42 2258.0 -27.91 77.42
 90.00 19 54 42 5319.80 27.44 241.77 260.59 82.74 21 23 22 4719.8 26.15 233.34
 100.00 8 35 46 2591.21 -29.88 66.42 263.64 90.91 9 18 58 1991.2 -29.43 57.64
 100.00 21 14 40 5061.82 29.00 222.57 260.36 82.42 22 39 2 4461.8 27.65 214.03
 110.00 9 47 10 2367.77 -34.15 49.35 263.54 91.53 10 26 38 1767.8 -33.56 40.15
 110.00 22 19 46 4858.03 33.23 206.40 259.66 81.50 23 40 44 4258.0 31.70 197.51

DIFFERENTIAL CORRECTIONS

TDE-1.1183 TRA-2.6560 TC3 -.1683 BAU .5700
 RDE-1.1931 RRA .6744 RC3 -.0132 FAU .00993
 FDE .5315 FRA 1.0338 FC3 -.0340 BSP 3172
 BOE 1.6353 BRA 2.7402 BC3 .1688 FSP -86

MID-COURSE EXECUTION ACCURACY

SGT 1169.6 SGR 496.1 SG3 37.4
 RRT -.0646 RRF .0604 RTF -.7445
 SGB 1270.4 R23 -.0019 R13 .7446
 SG1 1170.1 SG2 494.8 THA 178.09

ORBIT DETERMINATION ACCURACY

ST 495.5 SR 436.3 SS 475.5
 CRT .7051 CRS .7667 CST .9948
 LSA 769.0 MSA 265.4 SSA 15.8
 EL1 610.6 EL2 251.1 ALF 39.87

LAUNCH DATE NOV 18 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 171.853

RL 147.86 LAL .00 LOL 55.72 VL 20.024 GAL 26.24 AZL 87.63 MCA 55.91 SMA 95.19 ECC .66463 INC 2.3652 V1 30.133
 RP 107.52 LAP 1.96 LOP 111.61 VP 32.780 GAP -41.10 AZP 88.67 TAL 164.54 TAP 220.46 RCA 31.92 APO 158.46 V2 35.245
 RC 85.158 GL 2.78 GP -1.49 ZAL 52.95 ZAP 26.21 ETS 175.34 ZAE 126.63 ETE 186.51 ZAC 54.24 ETC 159.61 CLP 26.17

PLANETOCENTRIC CONIC

C3 233.947 VHL 15.295 OLA 3.67 RAL 1.48 RAD 6571.4 VEL 18.848 PTH 3.07 VHP 23.933 DPA -19.77 RAP 321.64 ECC 4.8502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 11 10 2870.30 -28.32 86.96 264.14 90.24 7 59 0 2270.3 -27.98 78.31
 90.00 20 3 45 5286.46 27.13 239.38 260.33 81.58 21 31 51 4686.5 25.69 231.01
 100.00 8 34 13 2602.39 -29.89 67.25 264.13 90.47 9 17 36 2002.4 -29.50 58.47
 100.00 21 23 23 5029.60 28.69 220.22 260.06 81.22 22 47 12 4429.6 27.18 211.75
 110.00 9 46 24 2376.47 -34.17 50.03 264.06 91.12 10 26 1 1776.5 -33.63 40.82
 110.00 22 27 41 4828.28 32.91 204.14 259.26 80.20 23 48 9 4228.3 31.21 195.33

DIFFERENTIAL CORRECTIONS

TDE-1.1297 TRA-2.6867 TC3 -.1775 BAU .5571
 RDE-1.1495 RRA .6524 RC3 -.0150 FAU .00998
 FDE .5521 FRA 1.0676 FC3 -.0369 BSP 3348
 BOE 1.6117 BRA 2.7648 BC3 .1781 FSP -94

MID-COURSE EXECUTION ACCURACY

SGT 1221.0 SGR 497.5 SG3 40.2
 RRT -.0655 RRF .0618 RTF -.7581
 SGB 1318.5 R23 -.0022 R13 .7582
 SG1 1221.6 SG2 496.2 THA 178.17

ORBIT DETERMINATION ACCURACY

ST 520.5 SR 436.8 SS 494.7
 CRT .7038 CRS .7675 CST .9945
 LSA 796.2 MSA 268.8 SSA 16.0
 EL1 629.1 EL2 256.7 ALF 37.98

LAUNCH DATE NOV 18 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 177.923

RL 147.86 LAL .00 LOL 55.72 VL 20.536 GAL 25.14 AZL 87.54 MCA 59.16 SMA 96.63 ECC .64092 INC 2.4605 V1 30.133
 RP 107.51 LAP 2.11 LOP 114.86 VP 33.099 GAP -39.42 AZP 88.74 TAL 163.63 TAP 222.78 RCA 34.70 APO 158.57 V2 35.249
 RC 80.975 GL 3.11 GP -1.55 ZAL 51.89 ZAP 24.86 ETS 175.13 ZAE 126.82 ETE 186.97 ZAC 56.05 ETC 160.14 CLP 24.81

PLANETOCENTRIC CONIC

C3 216.739 VHL 14.722 OLA 4.40 RAL 2.34 RAD 6571.2 VEL 18.386 PTH 3.04 VHP 23.091 DPA -19.27 RAP 323.57 ECC 4.5670
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 9 6 2882.07 -28.32 87.82 264.53 89.81 7 57 8 2282.1 -28.04 79.17
 90.00 20 12 38 5252.66 26.77 236.97 260.01 80.42 21 40 10 4652.7 25.18 228.67
 100.00 8 32 30 2613.05 -29.89 68.04 264.54 90.05 9 16 3 2013.0 -29.56 59.25
 100.00 21 31 54 4996.92 28.33 217.86 259.70 80.03 22 55 11 4396.9 26.66 209.46
 110.00 9 45 29 2384.64 -34.18 50.66 264.50 90.75 10 25 14 1784.6 -33.69 41.45
 110.00 22 35 25 4798.09 32.54 201.86 258.80 78.90 23 55 23 4198.1 30.67 193.15

DIFFERENTIAL CORRECTIONS

TDE-1.1404 TRA-2.7159 TC3 -.1868 BAU .5434
 RDE-1.1059 RRA .6299 RC3 -.0170 FAU .01005
 FDE .5733 FRA 1.1024 FC3 -.0401 BSP 3546
 BOE 1.5886 BRA 2.7880 BC3 .1875 FSP -102

MID-COURSE EXECUTION ACCURACY

SGT 1274.1 SGR 498.2 SG3 43.1
 RRT -.0664 RRF .0631 RTF -.7712
 SGB 1368.0 R23 -.0026 R13 .7713
 SG1 1274.6 SG2 496.9 THA 178.24

ORBIT DETERMINATION ACCURACY

ST 546.3 SR 436.7 SS 514.4
 CRT .7026 CRS .7684 CST .9943
 LSA 824.4 MSA 271.7 SSA 16.1
 EL1 648.5 EL2 261.8 ALF 36.09

LAUNCH DATE NOV 18 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 184.080

RL 147.86 LAL .00 LOL 55.72 VL 21.019 GAL 24.09 AZL 87.45 MCA 62.40 SMA 98.07 ECC .61765 INC 2.5497 V1 30.133
 RP 107.50 LAP 2.26 LOP 118.10 VP 33.405 GAP -37.80 AZP 88.82 TAL 162.73 TAP 225.13 RCA 37.50 APO 158.64 V2 35.253
 RC 78.802 GL 3.45 GP -1.60 ZAL 50.88 ZAP 23.52 ETS 174.89 ZAE 127.08 ETE 187.44 ZAC 57.87 ETC 160.64 CLP 23.47

PLANETOCENTRIC CONIC

C3 200.829 VHL 14.171 OLA 5.13 RAL 3.15 RAD 6571.1 VEL 17.949 PTH 3.00 VHP 22.273 DPA -18.76 RAP 325.51 ECC 4.3051
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 6 51 2893.36 -28.31 88.65 264.84 89.39 7 55 4 2293.4 -28.10 79.99
 90.00 20 21 21 5218.36 26.36 234.54 259.62 79.27 21 48 19 4618.4 24.61 226.31
 100.00 8 30 36 2623.20 -29.89 68.80 264.86 89.66 9 14 19 2023.2 -29.62 60.00
 100.00 21 40 17 4963.75 27.91 215.48 259.28 78.85 23 3 0 4363.8 26.09 207.16
 110.00 9 44 23 2392.29 -34.18 51.26 264.86 90.39 10 24 15 1792.3 -33.75 42.05
 110.00 22 42 59 4767.43 32.11 199.57 258.27 77.60 24 2 27 4167.4 30.07 190.96

DIFFERENTIAL CORRECTIONS

TDE-1.1510 TRA-2.7440 TC3 -.1962 BAU .5293
 RDE-1.0624 RRA .6071 RC3 -.0191 FAU .01013
 FDE .5954 FRA 1.1381 FC3 -.0437 BSP 3745
 BOE 1.5664 BRA 2.8104 BC3 .1971 FSP -111

MID-COURSE EXECUTION ACCURACY

SGT 1329.1 SGR 498.2 SG3 46.3
 RRT -.0672 RRF .0643 RTF -.7837
 SGB 1419.4 R23 -.0031 R13 .7838
 SG1 1329.6 SG2 496.9 THA 178.32

ORBIT DETERMINATION ACCURACY

ST 573.2 SR 435.9 SS 534.6
 CRT .7014 CRS .7693 CST .9941
 LSA 853.7 MSA 274.1 SSA 16.3
 EL1 669.1 EL2 266.1 ALF 34.22

LAUNCH DATE NOV 18 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 190.319

RL 147.86 LAL .00 LOL 55.72 VL 21.475 GAL 23.09 AZL 87.37 HCA 65.65 SMA 99.49 ECC .59487 INC 2.6337 V1 30.133
 RP 107.49 LAP 2.40 LOP 121.35 VP 33.697 GAP -36.25 AZP 88.91 TAL 161.84 TAP 227.49 RCA 40.31 APO 158.67 V2 35.255
 RC 76.644 GL 3.82 GP -1.66 ZAL 49.91 ZAP 22.19 ETS 174.59 ZAE 127.40 ETE 187.95 ZAC 59.71 ETC 161.12 CLP 22.13

PLANETOCENTRIC CONIC

C3 186.120 VHL 13.643 DLA 5.85 RAL 3.91 RAD 6571.0 VEL 17.534 PTH 2.97 VHP 21.477 DPA -18.22 RAP 327.45 ECC 4.0631
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 24 2904.21 -28.30 89.44 265.07 88.99 7 52 48 2304.2 -28.14 80.78
 90.00 20 29 56 5183.52 25.90 232.10 259.18 78.13 21 56 19 4583.5 24.00 223.94
 100.00 8 28 31 2632.90 -29.88 69.52 265.09 89.28 9 12 23 2032.9 -29.67 60.72
 100.00 21 48 30 4930.06 27.45 213.09 258.81 77.67 23 10 40 4330.1 25.47 204.85
 110.00 9 43 6 2399.46 -34.18 51.82 265.12 90.06 10 23 6 1799.5 -33.80 42.60
 110.00 22 50 24 4736.27 31.63 197.27 257.70 76.32 24 9 20 4136.3 29.43 188.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1852 TRA -2.7744 TC3 -.2065 BAU .5166 SGT 1388.9 SGR 497.4 SG3 49.7 ST 602.7 SR 434.4 SS 555.9
 RDE -1.0191 RRA .5840 RC3 -.0214 FAU .01022 RRT -.0672 RRF .0653 RTF -.7956 CRT .7009 CRS .7703 CST .9939
 FDE .6189 FRA 1.1755 FC3 -.0475 BSP 3865 SGB 1475.2 R23 -.0040 R13 .7957 LSA 885.7 MSA 275.9 SSA 16.4
 BDE 1.5480 BRA 2.8352 BC3 .2076 FSP -119 SGI 1389.3 SG2 496.1 THA 178.42 EL1 692.2 EL2 269.7 ALF 32.28

LAUNCH DATE NOV 18 1968

FLIGHT TIME 96.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 196.633

RL 147.86 LAL .00 LOL 55.72 VL 21.905 GAL 22.15 AZL 87.29 HCA 68.90 SMA 100.90 ECC .57264 INC 2.7136 V1 30.133
 RP 107.48 LAP 2.53 LOP 124.60 VP 33.974 GAP -34.76 AZP 89.02 TAL 160.98 TAP 229.87 RCA 43.12 APO 158.68 V2 35.257
 RC 74.503 GL 4.19 GP -1.73 ZAL 48.98 ZAP 20.88 ETS 174.24 ZAE 127.80 ETE 188.48 ZAC 61.57 ETC 161.57 CLP 20.81

PLANETOCENTRIC CONIC

C3 172.520 VHL 13.135 DLA 6.58 RAL 4.64 RAD 6570.9 VEL 17.142 PTH 2.94 VHP 20.703 DPA -17.67 RAP 329.39 ECC 3.8392
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 1 44 2914.66 -28.29 90.21 265.21 88.61 7 50 19 2314.7 -28.18 81.54
 90.00 20 38 22 5148.11 25.38 229.64 258.68 77.00 22 4 10 4548.1 23.34 221.56
 100.00 8 26 13 2642.19 -29.87 70.21 265.25 88.91 9 10 15 2042.2 -29.71 61.41
 100.00 21 56 34 4899.81 26.93 210.68 258.28 76.50 23 18 10 4295.8 24.80 202.52
 110.00 9 41 38 2406.19 -34.18 52.35 265.31 89.75 10 21 44 1806.2 -33.84 43.12
 110.00 22 57 39 4704.58 31.10 194.95 257.07 75.04 24 16 4 4104.6 28.74 186.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1802 TRA -2.8043 TC3 -.2173 BAU .5042 SGT 1451.6 SGR 495.8 SG3 53.4 ST 633.9 SR 432.1 SS 578.0
 RDE -.9760 RRA .5807 RC3 -.0239 FAU .01031 RRT -.0668 RRF .0662 RTF -.8068 CRT .7007 CRS .7714 CST .9937
 FDE .6436 FRA 1.2141 FC3 -.0518 BSP 3962 SGB 1534.0 R23 -.0052 R13 .8069 LSA 919.6 MSA 277.0 SSA 16.6
 BDE 1.5315 BRA 2.8598 BC3 .2186 FSP -128 SGI 1452.1 SG2 494.6 THA 178.52 EL1 717.1 EL2 272.5 ALF 30.37

LAUNCH DATE NOV 18 1968

FLIGHT TIME 98.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 203.015

RL 147.86 LAL .00 LOL 55.72 VL 22.311 GAL 21.24 AZL 87.21 HCA 72.14 SMA 102.30 ECC .55098 INC 2.7900 V1 30.133
 RP 107.48 LAP 2.66 LOP 127.85 VP 34.239 GAP -33.32 AZP 89.14 TAL 160.13 TAP 232.27 RCA 45.93 APO 158.66 V2 35.258
 RC 72.381 GL 4.59 GP -1.81 ZAL 48.10 ZAP 19.58 ETS 173.80 ZAE 128.28 ETE 189.05 ZAC 63.44 ETC 162.00 CLP 19.50

PLANETOCENTRIC CONIC

C3 159.943 VHL 12.647 DLA 7.30 RAL 5.32 RAD 6570.7 VEL 16.771 PTH 2.90 VHP 19.949 DPA -17.11 RAP 331.33 ECC 3.6323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 58 52 2924.76 -28.27 90.94 265.27 88.24 7 47 36 2324.8 -28.21 82.28
 90.00 20 46 41 5112.08 24.80 227.15 258.14 75.88 22 11 53 4512.1 22.62 219.16
 100.00 8 23 42 2651.11 -29.86 70.87 265.32 88.56 9 7 53 2051.1 -29.74 62.07
 100.00 22 4 31 4860.96 26.35 208.25 257.70 75.34 23 25 32 4261.0 24.08 200.19
 110.00 9 39 57 2412.50 -34.18 52.84 265.41 89.46 10 20 9 1812.5 -33.88 43.61
 110.00 23 4 46 4672.33 30.51 192.63 256.39 73.78 24 22 38 4072.3 27.99 184.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1917 TRA -2.8289 TC3 -.2274 BAU .4896 SGT 1513.9 SGR 493.5 SG3 57.3 ST 664.9 SR 429.2 SS 600.5
 RDE -.9333 RRA .5373 RC3 -.0267 FAU .01045 RRT -.0669 RRF .0672 RTF -.8176 CRT .7001 CRS .7724 CST .9935
 FDE .6690 FRA 1.2536 FC3 -.0566 BSP 4147 SGB 1592.3 R23 -.0061 R13 .8176 LSA 953.7 MSA 277.6 SSA 16.7
 BDE 1.5136 BRA 2.8795 BC3 .2290 FSP -139 SGI 1514.3 SG2 492.3 THA 178.60 EL1 742.2 EL2 274.5 ALF 28.58

LAUNCH DATE NOV 18 1968

FLIGHT TIME 100.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 209.471

RL 147.86 LAL .00 LOL 55.72 VL 22.694 GAL 20.38 AZL 87.14 HCA 75.39 SMA 103.68 ECC .52998 INC 2.8637 V1 30.133
 RP 107.48 LAP 2.77 LOP 131.10 VP 34.490 GAP -31.94 AZP 89.28 TAL 159.30 TAP 234.69 RCA 48.73 APO 158.62 V2 35.259
 RC 70.281 GL 5.01 GP -1.89 ZAL 47.27 ZAP 18.29 ETS 173.28 ZAE 128.84 ETE 189.65 ZAC 65.32 ETC 162.40 CLP 18.20

PLANETOCENTRIC CONIC

C3 148.364 VHL 12.180 DLA 8.03 RAL 5.96 RAD 6570.6 VEL 16.422 PTH 2.87 VHP 19.219 DPA -16.53 RAP 333.27 ECC 3.4417
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 55 45 2934.66 -28.24 91.67 265.26 87.88 7 44 40 2334.7 -28.24 83.00
 90.00 20 54 54 5075.42 24.17 224.65 257.55 74.78 22 19 30 4475.4 21.85 216.75
 100.00 8 20 59 2659.80 -29.84 71.52 265.32 88.23 9 5 18 2059.8 -29.77 62.71
 100.00 22 12 22 4825.51 25.71 205.81 257.07 74.21 23 32 48 4225.5 23.30 197.84
 110.00 9 38 4 2418.54 -34.17 53.31 265.43 89.18 10 18 23 1818.5 -33.91 44.08
 110.00 23 11 46 4639.53 29.86 190.29 255.67 72.54 24 29 6 4039.5 27.19 182.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.3260 TRA -2.8751 TC3 -.2706 BAU .5399 SGT 1679.6 SGR 490.2 SG3 62.4 ST 754.5 SR 425.2 SS 638.2
 RDE -.8903 RRA .5147 RC3 -.0294 FAU .00978 RRT -.0450 RRF .0616 RTF -.8242 CRT .7175 CRS .7764 CST .9954
 FDE .7138 FRA 1.3124 FC3 -.0571 BSP 1393 SGB 1749.7 R23 -.0211 R13 .8243 LSA 1040.3 MSA 273.5 SSA 17.6
 BDE 1.5972 BRA 3.0193 BC3 .2722 FSP -113 SGI 1679.8 SG2 489.7 THA 179.18 EL1 822.3 EL2 271.7 ALF 24.92

LAUNCH DATE NOV 18 1968

FLIGHT TIME 102.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC
 RL 147.86 LAL .00 LOL 55.72 VL 23.056 GAL 19.55 AZL 87.06 HCA 78.64 SMA 105.03 ECC .50951 INC 2.9352 V1 30.133
 RP 107.48 LAP 2.88 LOP 134.35 VP 34.728 GAP -30.60 AZP 89.42 TAL 158.50 TAP 237.14 RCA 51.52 APO 158.55 V2 35.259
 RC 68.209 GL 5.44 GP -1.98 ZAL 46.48 ZAP 17.01 ETS 172.64 ZAE 129.48 ETE 190.29 ZAC 67.22 ETC 162.78 CLP 16.90

PLANETOCENTRIC CONIC
 C3 137.559 VHL 11.729 DLA 8.76 RAL 6.55 RAD 6570.5 VEL 16.090 PTH 2.83 VHP 18.504 DPA -15.94 RAP 335.20 ECC 3.2639
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 52 22 2944.15 -28.22 92.36 265.14 87.53 7 41 27 2344.2 -28.26 83.70
 90.00 21 2 59 5038.01 23.48 222.13 256.89 73.70 22 26 57 4438.0 21.02 214.32
 100.00 8 17 59 2668.05 -29.83 72.13 265.21 87.90 9 2 27 2068.1 -29.80 63.32
 100.00 22 20 4 4789.34 25.02 203.34 256.39 73.09 23 39 53 4189.3 22.47 195.48
 110.00 9 35 56 2424.09 -34.17 53.75 265.36 88.92 10 16 20 1824.1 -33.94 44.51
 110.00 23 18 36 4606.07 29.16 187.94 254.90 71.31 24 35 22 4006.1 26.33 179.90

DIFFERENTIAL CORRECTIONS
 TDE -1.1722 TRA -2.8301 TC3 -.2354 BAU .4371 SGT 1609.2 SGR 486.5 SG3 65.9 ST 710.2 SR 421.1 SS 643.2
 RDE -.8490 RRA .4903 RC3 -.0329 FAU .01109 RRT -.0751 RRF .0718 RTF -.8392 CRT .6924 CRS .7735 CST .9922
 FDE .7176 FRA 1.3308 FC3 -.0698 BSP 5534 SGB 1681.2 R23 -.0025 R13 .8392 LSA 1008.7 MSA 278.6 SSA 16.6
 BDE 1.4474 BRA 2.8723 BC3 .2377 FSP -176 SGI 1609.7 SG2 485.0 THA 178.57 EL1 777.6 EL2 277.5 ALF 25.85

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 18 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC
 RL 147.86 LAL .00 LOL 55.72 VL 23.396 GAL 18.76 AZL 86.99 HCA 81.89 SMA 106.36 ECC .48976 INC 3.0052 V1 30.133
 RP 107.48 LAP 2.98 LOP 137.60 VP 34.954 GAP -29.32 AZP 89.58 TAL 157.72 TAP 239.61 RCA 54.27 APO 158.46 V2 35.257
 RC 66.167 GL 5.90 GP -2.07 ZAL 45.74 ZAP 15.74 ETS 171.85 ZAE 130.21 ETE 190.98 ZAC 69.12 ETC 163.14 CLP 15.60

PLANETOCENTRIC CONIC
 C3 127.638 VHL 11.298 DLA 9.49 RAL 7.10 RAD 6570.4 VEL 15.779 PTH 2.80 VHP 17.811 DPA -15.34 RAP 337.14 ECC 3.1006
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 48 44 2953.64 -28.19 93.05 264.96 87.19 7 37 58 2353.6 -28.28 84.39
 90.00 21 11 1 4999.91 22.73 219.59 256.21 72.64 22 34 21 4399.9 20.14 211.87
 100.00 8 14 44 2676.26 -29.80 72.74 265.04 87.58 8 59 21 2076.3 -29.82 63.93
 100.00 22 27 42 4752.53 24.27 200.87 255.67 71.99 23 46 54 4152.5 21.58 193.10
 110.00 9 33 35 2429.52 -34.16 54.17 265.21 88.67 10 14 5 1829.5 -33.97 44.93
 110.00 23 25 20 4572.03 28.39 185.59 254.09 70.11 24 41 32 3972.0 25.42 177.68

DIFFERENTIAL CORRECTIONS
 TDE -1.1956 TRA -2.8608 TC3 -.2482 BAU .4280 SGT 1687.0 SGR 481.8 SG3 71.0 ST 750.1 SR 415.8 SS 669.8
 RDE -.8074 RRA .4673 RC3 -.0364 FAU .01122 RRT -.0727 RRF .0724 RTF -.8479 CRT .6942 CRS .7749 CST .9923
 FDE .7492 FRA 1.3768 FC3 -.0761 BSP 5441 SGB 1754.4 R23 -.0053 R13 .8480 LSA 1052.3 MSA 276.9 SSA 16.8
 BDE 1.4427 BRA 2.8987 BC3 .2508 FSP -187 SGI 1687.3 SG2 480.4 THA 178.71 EL1 811.8 EL2 276.5 ALF 24.00

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 18 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC
 RL 147.86 LAL .00 LOL 55.72 VL 23.716 GAL 18.00 AZL 86.93 HCA 85.13 SMA 107.67 ECC .47068 INC 3.0739 V1 30.133
 RP 107.49 LAP 3.06 LOP 140.85 VP 35.168 GAP -28.08 AZP 89.74 TAL 156.97 TAP 242.10 RCA 56.99 APO 158.34 V2 35.256
 RC 64.161 GL 6.38 GP -2.18 ZAL 45.05 ZAP 14.48 ETS 170.86 ZAE 131.03 ETE 191.72 ZAC 71.03 ETC 163.49 CLP 14.31

PLANETOCENTRIC CONIC
 C3 118.472 VHL 10.884 DLA 10.23 RAL 7.61 RAD 6570.2 VEL 15.486 PTH 2.76 VHP 17.137 DPA -14.74 RAP 339.07 ECC 2.9498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 44 48 2963.08 -28.16 93.74 264.70 86.84 7 34 11 2363.1 -28.30 85.08
 90.00 21 18 59 4961.06 21.92 217.03 255.48 71.61 22 41 40 4361.1 19.20 209.41
 100.00 8 11 13 2684.37 -29.78 73.34 264.80 87.27 8 55 58 2084.4 -29.84 64.54
 100.00 22 35 15 4715.00 23.46 198.37 254.91 70.92 23 53 50 4115.0 20.64 190.71
 110.00 9 30 59 2434.77 -34.15 54.58 264.99 88.43 10 11 34 1834.8 -33.99 45.34
 110.00 23 31 58 4537.36 27.57 183.23 253.25 68.94 24 47 36 3937.4 24.45 175.45

DIFFERENTIAL CORRECTIONS
 TDE -1.2084 TRA -2.8785 TC3 -.2578 BAU .4132 SGT 1757.9 SGR 476.3 SG3 76.4 ST 786.3 SR 409.6 SS 696.4
 RDE -.7662 RRA .4445 RC3 -.0401 FAU .01145 RRT -.0723 RRF .0737 RTF -.8567 CRT .6944 CRS .7761 CST .9921
 FDE .7811 FRA 1.4232 FC3 -.0837 BSP 5600 SGB 1821.3 R23 -.0069 R13 .8567 LSA 1093.2 MSA 275.0 SSA 16.9
 BDE 1.4309 BRA 2.9126 BC3 .2609 FSP -201 SGI 1758.3 SG2 474.9 THA 178.79 EL1 842.9 EL2 274.9 ALF 22.40

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 18 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC
 RL 147.86 LAL .00 LOL 55.72 VL 24.018 GAL 17.27 AZL 86.86 HCA 88.38 SMA 108.94 ECC .45228 INC 3.1421 V1 30.133
 RP 107.50 LAP 3.14 LOP 144.10 VP 35.369 GAP -26.88 AZP 89.91 TAL 156.24 TAP 244.62 RCA 59.67 APO 158.21 V2 35.253
 RC 62.196 GL 6.88 GP -2.30 ZAL 44.40 ZAP 13.22 ETS 169.63 ZAE 131.95 ETE 192.52 ZAC 72.95 ETC 163.82 CLP 13.03

PLANETOCENTRIC CONIC
 C3 110.010 VHL 10.489 DLA 10.98 RAL 8.07 RAD 6570.1 VEL 15.210 PTH 2.73 VHP 16.482 DPA -14.13 RAP 340.99 ECC 2.8105
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 40 34 2972.57 -28.12 94.43 264.37 86.50 7 30 6 2372.6 -28.31 85.77
 90.00 21 26 54 4921.41 21.04 214.45 254.72 70.60 22 48 55 4321.4 18.20 206.93
 100.00 8 7 24 2692.49 -29.75 73.94 264.48 86.95 8 52 17 2092.5 -29.86 65.14
 100.00 22 42 44 4676.72 22.58 195.87 254.12 69.88 24 0 41 4076.7 19.64 188.31
 110.00 9 28 7 2439.93 -34.14 54.98 264.70 88.19 10 8 47 1839.9 -34.01 45.74
 110.00 23 38 31 4502.04 26.68 180.87 252.38 67.79 24 53 33 3902.0 23.43 173.21

DIFFERENTIAL CORRECTIONS
 TDE -1.2151 TRA -2.8876 TC3 -.2648 BAU .3948 SGT 1825.1 SGR 469.9 SG3 82.2 ST 820.5 SR 402.6 SS 723.4
 RDE -.7256 RRA .4221 RC3 -.0440 FAU .01176 RRT -.0735 RRF .0758 RTF -.8652 CRT .6938 CRS .7772 CST .9919
 FDE .8141 FRA 1.4707 FC3 -.0925 BSP 5917 SGB 1884.6 R23 -.0077 R13 .8652 LSA 1133.1 MSA 272.7 SSA 16.9
 BDE 1.4153 BRA 2.9183 BC3 .2685 FSP -219 SGI 1825.4 SG2 468.5 THA 178.84 EL1 872.3 EL2 272.7 ALF 20.94

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 18 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 242.456

RL 147.86 LAL .00 LOL 55.72 VL 24.302 GAL 16.58 AZL 86.79 MCA 91.63 SMA 110.18 ECC .43457 INC 3.2100 V1 30.133
 RP 107.51 LAP 3.21 LOP 147.35 VP 35.560 GAP -25.72 AZP 90.09 TAL 155.54 TAP 247.16 RCA 62.30 APO 158.06 V2 35.250
 RC 60.278 GL 7.41 GP -2.42 ZAL 43.80 ZAP 11.98 ETS 168.06 ZAE 132.97 ETE 193.39 ZAC 74.87 ETC 164.13 CLP 11.74

PLANETOCENTRIC CONIC

C3 102.207 VHL 10.110 DLA 11.73 RAL 8.48 RAD 6570.0 VEL 14.952 PTH 2.70 VHP 15.845 DPA -13.52 RAP 342.91 ECC 2.6821
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 35 59 2982.26 -28.08 95.14 263.97 86.15 7 25 41 2382.3 -28.31 86.48
 90.00 21 34 47 4880.93 20.10 211.85 253.93 69.63 22 56 8 4280.9 17.15 204.42
 100.00 8 3 16 2700.74 -29.72 74.55 264.09 86.63 8 48 17 2100.7 -29.87 65.75
 100.00 22 50 11 4637.68 21.64 193.34 253.31 68.86 24 7 29 4037.7 18.58 185.89
 110.00 9 24 58 2445.11 -34.13 55.39 264.33 87.95 10 5 43 1845.1 -34.04 46.14
 110.00 23 44 59 4466.08 25.73 178.50 251.48 66.68 24 59 25 3866.1 22.35 170.98

DIFFERENTIAL CORRECTIONS

TDE -1.2289 TRA -2.9012 TC3 -.2740 BAU .3801
 RDE -.6855 RRA .4003 RC3 -.0482 FAU .01204
 FDE .8507 FRA 1.5217 FC3 -.1020 BSP 6063
 BDE 1.4072 BRA 2.9286 BC3 .2782 FSP -237

MID-COURSE EXECUTION ACCURACY

SGT 1900.5 SGR 462.8 SG3 88.6
 RRT -.0733 RRF .0777 RTF -.8729
 SGB 1956.0 R23 -.0097 R13 .8730
 SGI 1900.8 SG2 461.4 THA 178.91

ORBIT DETERMINATION ACCURACY

ST 859.7 SR 394.7 SS 752.7
 CRT .6944 CRS .7784 CST .9918
 LSA 1178.3 MSA 269.5 SSA 17.0
 EL1 906.9 EL2 269.3 ALF 19.47

LAUNCH DATE NOV 18 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 249.174

RL 147.86 LAL .00 LOL 55.72 VL 24.570 GAL 15.91 AZL 86.72 MCA 94.87 SMA 111.39 ECC .41754 INC 3.2781 V1 30.133
 RP 107.52 LAP 3.27 LOP 150.60 VP 35.739 GAP -24.60 AZP 90.28 TAL 154.87 TAP 249.74 RCA 64.88 APO 157.90 V2 35.246
 RC 58.412 GL 7.97 GP -2.57 ZAL 43.25 ZAP 10.76 ETS 166.03 ZAE 134.09 ETE 194.34 ZAC 76.79 ETC 164.42 CLP 10.45

PLANETOCENTRIC CONIC

C3 95.011 VHL 9.747 DLA 12.49 RAL 8.85 RAD 6569.9 VEL 14.709 PTH 2.66 VHP 15.226 DPA -12.92 RAP 344.83 ECC 2.5636
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 1 2992.25 -28.03 95.87 263.49 85.79 7 20 54 2392.2 -28.32 87.21
 90.00 21 42 40 4839.58 19.10 209.23 253.12 68.69 23 3 20 4239.6 16.04 201.90
 100.00 7 58 47 2709.21 -29.68 75.18 263.63 86.30 8 43 56 2109.2 -29.88 66.38
 100.00 22 57 36 4597.84 20.65 190.81 252.46 67.89 24 14 14 3997.8 17.47 183.46
 110.00 9 21 30 2450.38 -34.12 55.80 263.90 87.71 10 2 21 1850.4 -34.06 46.55
 110.00 23 51 22 4429.44 24.72 176.13 250.56 65.61 25 5 12 3829.4 21.22 168.74

DIFFERENTIAL CORRECTIONS

TDE -1.2374 TRA -2.9065 TC3 -.2803 BAU .3623
 RDE -.6460 RRA .3791 RC3 -.0527 FAU .01241
 FDE .8890 FRA 1.5743 FC3 -.1131 BSP 6349
 BDE 1.3958 BRA 2.9311 BC3 .2852 FSP -257

MID-COURSE EXECUTION ACCURACY

SGT 1972.2 SGR 454.8 SG3 95.4
 RRT -.0748 RRF .0807 RTF -.8806
 SGB 2024.0 R23 -.0112 R13 .8806
 SGI 1972.5 SG2 453.4 THA 178.96

ORBIT DETERMINATION ACCURACY

ST 897.1 SR 385.9 SS 782.7
 CRT .6941 CRS .7795 CST .9915
 LSA 1222.8 MSA 265.9 SSA 17.0
 EL1 939.9 EL2 265.1 ALF 18.11

LAUNCH DATE NOV 18 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 255.922

RL 147.86 LAL .00 LOL 55.72 VL 24.821 GAL 15.28 AZL 86.65 MCA 98.12 SMA 112.56 ECC .40119 INC 3.3468 V1 30.133
 RP 107.53 LAP 3.31 LOP 153.85 VP 35.907 GAP -23.52 AZP 90.47 TAL 154.22 TAP 252.34 RCA 67.40 APO 157.72 V2 35.241
 RC 56.605 GL 8.55 GP -2.73 ZAL 42.76 ZAP 9.55 ETS 163.35 ZAE 135.33 ETE 195.39 ZAC 78.71 ETC 164.71 CLP 9.16

PLANETOCENTRIC CONIC

C3 88.383 VHL 9.401 DLA 13.26 RAL 9.17 RAD 6569.7 VEL 14.482 PTH 2.63 VHP 14.625 DPA -12.32 RAP 346.74 ECC 2.4546
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 25 40 3002.70 -27.97 96.63 262.96 85.41 7 15 43 2402.7 -28.32 87.98
 90.00 21 50 35 4797.31 18.04 206.59 252.28 67.79 23 10 32 4197.3 14.87 199.35
 100.00 7 53 56 2718.06 -29.64 75.84 263.10 85.96 8 39 14 2118.1 -29.89 67.04
 100.00 23 5 1 4557.17 19.58 188.25 251.60 66.95 24 20 58 3957.2 16.29 181.01
 110.00 9 17 43 2455.87 -34.10 56.23 263.40 87.46 9 58 39 1855.9 -34.08 46.98
 110.00 0 1 38 4392.13 23.65 173.76 249.63 64.57 1 14 51 3792.1 20.03 166.49

DIFFERENTIAL CORRECTIONS

TDE -1.2466 TRA -2.9096 TC3 -.2860 BAU .3447
 RDE -.6070 RRA .3587 RC3 -.0574 FAU .01281
 FDE .9304 FRA 1.6298 FC3 -.1255 BSP 6623
 BDE 1.3865 BRA 2.9316 BC3 .2917 FSP -280

MID-COURSE EXECUTION ACCURACY

SGT 2045.8 SGR 446.0 SG3 102.9
 RRT -.0768 RRF .0845 RTF -.8877
 SGB 2093.9 R23 -.0130 R13 .8878
 SGI 2046.1 SG2 444.7 THA 178.99

ORBIT DETERMINATION ACCURACY

ST 936.0 SR 376.0 SS 814.3
 CRT .6940 CRS .7804 CST .9913
 LSA 1269.6 MSA 261.7 SSA 17.1
 EL1 974.6 EL2 260.0 ALF 16.81

LAUNCH DATE NOV 18 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 262.693

RL 147.86 LAL .00 LOL 55.72 VL 25.057 GAL 14.67 AZL 86.58 MCA 101.36 SMA 113.70 ECC .38553 INC 3.4167 V1 30.133
 RP 107.55 LAP 3.35 LOP 157.10 VP 36.065 GAP -22.48 AZP 90.67 TAL 153.61 TAP 254.97 RCA 69.86 APO 157.53 V2 35.235
 RC 54.864 GL 9.16 GP -2.90 ZAL 42.32 ZAP 8.37 ETS 159.76 ZAE 136.67 ETE 196.55 ZAC 80.63 ETC 164.98 CLP 7.86

PLANETOCENTRIC CONIC

C3 82.282 VHL 9.071 DLA 14.04 RAL 9.44 RAD 6569.6 VEL 14.270 PTH 2.60 VHP 14.041 DPA -11.72 RAP 348.64 ECC 2.3541
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 53 3013.77 -27.91 97.43 262.36 85.01 7 10 7 2413.8 -28.31 88.79
 90.00 21 58 33 4754.07 16.90 203.92 251.43 66.94 23 17 47 4154.1 13.64 196.77
 100.00 7 48 40 2727.44 -29.60 76.53 262.51 85.60 8 34 8 2127.4 -29.89 67.74
 100.00 23 12 27 4515.63 18.45 185.69 250.72 66.06 24 27 43 3915.6 15.06 178.53
 110.00 9 13 36 2461.70 -34.08 56.68 262.85 87.19 9 54 38 1861.7 -34.10 47.44
 110.00 0 7 57 4354.13 22.52 171.39 248.68 63.58 1 20 31 3754.1 18.79 164.25

DIFFERENTIAL CORRECTIONS

TDE -1.2564 TRA -2.9103 TC3 -.2909 BAU .3272
 RDE -.5685 RRA .3392 RC3 -.0624 FAU .01325
 FDE .9755 FRA 1.6886 FC3 -.1394 BSP 6892
 BDE 1.3790 BRA 2.9300 BC3 .2975 FSP -304

MID-COURSE EXECUTION ACCURACY

SGT 2121.0 SGR 436.5 SG3 111.1
 RRT -.0797 RRF .0894 RTF -.8945
 SGB 2165.5 R23 -.0150 R13 .8946
 SGI 2121.3 SG2 435.1 THA 179.02

ORBIT DETERMINATION ACCURACY

ST 976.3 SR 365.2 SS 847.9
 CRT .6938 CRS .7812 CST .9912
 LSA 1318.8 MSA 256.9 SSA 17.1
 EL1 1011.0 EL2 254.0 ALF 15.56

LAUNCH DATE NOV 18 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 269.486

RL 147.86 LAL .00 LOL 55.72 VL 25.278 GAL 14.09 AZL 86.51 MCA 104.60 SMA 114.79 ECC .37055 INC 3.4881 V1 30.133
 RP 107.57 LAP 3.38 LOP 160.35 VP 36.214 GAP -21.46 AZP 90.88 TAL 153.03 TAP 257.63 RCA 72.26 APO 157.33 V2 35.229
 RC 53.197 GL 9.81 GP -3.10 ZAL 41.93 ZAP 7.24 ETS 154.81 ZAE 138.12 ETE 197.84 ZAC 82.55 ETC 165.24 CLP 6.55

PLANETOCENTRIC CONIC

C3 76.672 VHL 8.756 DLA 14.84 RAL 9.67 RAD 6569.5 VEL 14.072 PTH 2.57 VHP 13.474 DPA -11.14 RAP 350.53 ECC 2.2618
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 37 3025.67 -27.84 98.29 261.70 84.58 7 4 3 2425.7 -28.30 89.66
 90.00 22 6 36 4709.78 15.70 201.23 250.56 66.13 23 25 6 4109.8 12.34 194.16
 100.00 7 42 58 2737.51 -29.54 77.27 261.87 85.21 8 28 36 2137.5 -29.89 68.48
 100.00 23 19 56 4473.17 17.26 183.10 249.83 65.21 24 34 29 3873.2 13.78 176.04
 110.00 9 9 6 2468.02 -34.06 57.17 262.24 86.90 9 50 14 1868.0 -34.11 47.93
 110.00 0 14 14 4315.43 21.33 169.02 247.72 62.63 1 26 9 3715.4 17.49 161.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2666 TRA-2.9079 TC3 -.2944 BAU .3097
 RDE -.5306 RRA .3207 RC3 -.0676 FAU .01374
 FDE 1.0245 FRA 1.7508 FC3 -.1551 BSP 7168
 BDE 1.3733 BRA 2.9255 BC3 .3021 FSP -331

SGT 2197.1 SGR 426.3 SG3 120.0
 RRT -.0839 RRF .0959 RTF -.9009
 SGB 2238.1 R23 -.0174 R13 .9010
 SG1 2197.4 SG2 424.7 TMA 179.03

ST 1017.8 SR 353.3 SS 883.4
 CRT .6935 CRS .7817 CST .9910
 LSA 1370.2 MSA 251.6 SSA 17.1
 EL1 1048.6 EL2 247.0 ALF 14.35

LAUNCH DATE NOV 18 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 276.296

RL 147.86 LAL .00 LOL 55.72 VL 25.486 GAL 13.53 AZL 86.44 MCA 107.84 SMA 115.85 ECC .35623 INC 3.5616 V1 30.133
 RP 107.59 LAP 3.39 LOP 163.60 VP 36.352 GAP -20.48 AZP 91.09 TAL 152.48 TAP 260.32 RCA 74.58 APO 157.12 V2 35.222
 RC 51.611 GL 10.49 GP -3.32 ZAL 41.60 ZAP 6.19 ETS 147.83 ZAE 139.68 ETE 199.30 ZAC 84.47 ETC 165.50 CLP 5.23

PLANETOCENTRIC CONIC

C3 71.519 VHL 8.457 DLA 15.65 RAL 9.84 RAD 6569.4 VEL 13.888 PTH 2.54 VHP 12.923 DPA -10.58 RAP 352.41 ECC 2.1770
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 49 3038.59 -27.75 99.23 260.98 84.12 6 57 28 2438.6 -28.27 90.60
 90.00 22 14 47 4664.38 14.43 198.50 249.70 65.37 23 32 31 4064.4 10.99 191.51
 100.00 7 36 47 2748.47 -29.48 78.08 261.17 84.79 8 22 35 2148.5 -29.89 69.30
 100.00 23 27 30 4429.74 16.00 180.49 248.93 64.41 24 41 20 3829.7 12.43 173.52
 110.00 9 4 11 2474.97 -34.03 57.71 261.58 86.58 9 45 26 1875.0 -34.13 48.47
 110.00 0 20 31 4276.00 20.08 166.65 246.76 61.73 1 31 47 3676.0 16.14 159.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2777 TRA-2.9027 TC3 -.2968 BAU .2923
 RDE -.4931 RRA .3034 RC3 -.0731 FAU .01427
 FDE 1.0780 FRA 1.8169 FC3 -.1728 BSP 7440
 BDE 1.3696 BRA 2.9186 BC3 .3057 FSP -360

SGT 2274.3 SGR 415.3 SG3 129.7
 RRT -.0898 RRF .1044 RTF -.9070
 SGB 2311.9 R23 -.0202 R13 .9071
 SG1 2274.7 SG2 413.6 TMA 179.03

ST 1060.7 SR 340.2 SS 921.1
 CRT .6929 CRS .7818 CST .9909
 LSA 1424.3 MSA 245.7 SSA 17.0
 EL1 1087.9 EL2 239.1 ALF 13.18

LAUNCH DATE NOV 18 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 283.118

RL 147.86 LAL .00 LOL 55.72 VL 25.681 GAL 13.00 AZL 86.36 MCA 111.08 SMA 116.87 ECC .34257 INC 3.6378 V1 30.133
 RP 107.61 LAP 3.39 LOP 166.84 VP 36.482 GAP -19.53 AZP 91.31 TAL 151.97 TAP 263.05 RCA 76.83 APO 156.90 V2 35.215
 RC 50.116 GL 11.20 GP -3.57 ZAL 41.33 ZAP 5.28 ETS 137.87 ZAE 141.35 ETE 200.95 ZAC 86.37 ETC 165.74 CLP 3.90

PLANETOCENTRIC CONIC

C3 66.792 VHL 8.173 DLA 16.48 RAL 9.96 RAD 6569.3 VEL 13.717 PTH 2.51 VHP 12.389 DPA -10.05 RAP 354.29 ECC 2.0992
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 59 25 3052.81 -27.65 100.26 260.22 83.62 6 50 18 2452.8 -28.24 91.64
 90.00 22 23 9 4617.74 13.09 195.73 248.83 64.67 23 40 6 4017.7 9.57 188.82
 100.00 7 30 3 2760.54 -29.40 78.97 260.43 84.33 8 16 4 2160.5 -29.87 70.20
 100.00 23 35 12 4385.25 14.68 177.85 248.04 63.66 24 48 17 3785.2 11.02 170.96
 110.00 8 58 51 2482.73 -34.00 58.32 260.87 86.22 9 40 13 1882.7 -34.15 49.08
 110.00 0 26 50 4235.82 18.76 164.27 245.80 60.89 1 37 26 3635.8 14.74 157.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2899 TRA-2.8952 TC3 -.2981 BAU .2753
 RDE -.4560 RRA .2875 RC3 -.0788 FAU .01486
 FDE 1.1369 FRA 1.8874 FC3 -.1926 BSP 7700
 BDE 1.3681 BRA 2.9094 BC3 .3084 FSP -392

SGT 2352.8 SGR 403.7 SG3 140.3
 RRT -.0980 RRF .1156 RTF -.9127
 SGB 2387.1 R23 -.0236 R13 .9128
 SG1 2353.1 SG2 401.7 TMA 179.01

ST 1105.1 SR 325.8 SS 961.4
 CRT .6917 CRS .7813 CST .9909
 LSA 1481.3 MSA 239.4 SSA 17.0
 EL1 1128.8 EL2 230.4 ALF 12.04

LAUNCH DATE NOV 18 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 289.951

RL 147.86 LAL .00 LOL 55.72 VL 25.863 GAL 12.49 AZL 86.28 MCA 114.32 SMA 117.84 ECC .32956 INC 3.7175 V1 30.133
 RP 107.64 LAP 3.39 LOP 170.09 VP 36.603 GAP -18.61 AZP 91.53 TAL 151.49 TAP 265.81 RCA 79.01 APO 156.68 V2 35.207
 RC 48.721 GL 11.96 GP -3.85 ZAL 41.11 ZAP 4.61 ETS 123.97 ZAE 143.12 ETE 202.84 ZAC 88.27 ETC 165.99 CLP 2.55

PLANETOCENTRIC CONIC

C3 62.462 VHL 7.903 DLA 17.33 RAL 10.03 RAD 6569.2 VEL 13.558 PTH 2.48 VHP 11.871 DPA -9.54 RAP 356.15 ECC 2.0280
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 22 3068.61 -27.52 101.40 259.40 83.06 6 42 30 2468.6 -28.20 92.80
 90.00 22 31 45 4569.73 11.67 192.91 247.97 64.02 23 47 55 3969.7 8.09 186.07
 100.00 7 22 44 2773.98 -29.30 79.96 259.63 83.82 8 8 58 2174.0 -29.85 71.20
 100.00 23 43 4 4339.60 13.28 175.18 247.15 62.97 24 55 24 3739.6 9.55 168.37
 110.00 8 53 1 2491.50 -33.96 59.00 260.13 85.82 9 34 32 1891.5 -34.16 49.76
 110.00 0 33 12 4194.84 17.39 161.89 244.84 60.10 1 43 7 3594.8 13.28 155.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3031 TRA-2.8846 TC3 -.2980 BAU .2587
 RDE -.4191 RRA .2731 RC3 -.0848 FAU .01550
 FDE 1.2018 FRA 1.9625 FC3 -.2148 BSP 7951
 BDE 1.3689 BRA 2.8975 BC3 .3098 FSP -427

SGT 2431.7 SGR 391.5 SG3 152.0
 RRT -.1093 RRF .1304 RTF -.9181
 SGB 2463.0 R23 -.0276 R13 .9182
 SG1 2432.1 SG2 389.1 TMA 178.97

ST 1150.9 SR 310.2 SS 1004.5
 CRT .6897 CRS .7798 CST .9908
 LSA 1541.2 MSA 232.7 SSA 16.9
 EL1 1171.4 EL2 220.7 ALF 10.92

LAUNCH DATE NOV 18 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 296.790

RL 147.86 LAL .00 LOL 55.72 VL 26.034 GAL 12.00 AZL 86.20 HCA 117.56 SMA 118.78 ECC .31719 INC 3.8012 V1 30.133
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.715 GAP -17.72 AZP 91.76 TAL 151.04 TAP 268.60 RCA 81.10 APO 156.45 V2 35.198
 RC 47.437 GL 12.75 GP -4.16 ZAL 40.96 ZAP 4.33 ETS 106.39 ZAE 144.98 ETE 205.02 ZAC 90.16 ETC 166.23 CLP 1.18

PLANETOCENTRIC CONIC

C3 58.502 VHL 7.649 DLA 18.21 RAL 10.04 RAD 6569.1 VEL 13.411 PTH 2.45 VHP 11.368 DPA -9.06 RAP 358.01 ECC 1.9628
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 32 3086.35 -27.37 102.67 258.54 82.44 6 33 59 2486.3 -28.13 94.09
 90.00 22 40 41 4520.14 10.18 190.04 247.13 63.43 23 56 1 3920.1 6.53 183.26
 100.00 7 14 43 2789.08 -29.19 81.06 258.80 83.24 8 1 13 2189.1 -29.82 72.32
 100.00 23 51 11 4292.64 11.81 172.46 246.27 62.34 25 2 43 3692.6 8.02 165.73
 110.00 8 46 39 2501.48 -33.91 59.77 259.35 85.37 9 28 20 1901.5 -34.18 50.54
 110.00 0 39 41 4153.00 15.95 159.50 243.90 59.36 1 48 54 3553.0 11.77 152.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.3111 TRA-2.8655 TC3 -.2920 BAU .2392
 ROE -.3823 RRA .2604 RC3 -.0910 FAU .01629
 FOE 1.2718 FRA 2.0411 FC3 -.2410 BSP 8340
 BOE 1.3657 BRA 2.8773 BC3 .3058 FSP -469

SGT 2504.0 SGR 378.9 SG3 164.7
 RRT -.1271 RRF .1509 RTF -.9234
 SGB 2532.5 R23 -.0311 R13 .9235
 SG1 2504.5 SG2 375.8 THA 178.87

ST 1193.4 SR 293.0 SS 1049.2
 CRT .6852 CRS .7767 CST .9907
 LSA 1599.9 MSA 226.0 SSA 16.8
 EL1 1210.7 EL2 210.4 ALF 9.85

LAUNCH DATE NOV 18 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 303.633

RL 147.86 LAL .00 LOL 55.72 VL 26.194 GAL 11.54 AZL 86.11 HCA 120.79 SMA 119.67 ECC .30543 INC 3.8900 V1 30.133
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.820 GAP -16.86 AZP 91.99 TAL 150.63 TAP 271.42 RCA 83.12 APO 156.22 V2 35.189
 RC 46.274 GL 13.59 GP -4.52 ZAL 40.88 ZAP 4.53 ETS 88.01 ZAE 146.90 ETE 207.56 ZAC 92.03 ETC 166.48 CLP -.20

PLANETOCENTRIC CONIC

C3 54.890 VHL 7.409 DLA 19.11 RAL 10.00 RAD 6569.0 VEL 13.276 PTH 2.43 VHP 10.882 DPA -8.64 RAP 359.86 ECC 1.9033
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 32 50 3106.47 -27.18 104.11 257.63 81.74 6 24 37 2506.5 -28.04 95.55
 90.00 22 50 2 4468.72 8.60 187.09 246.30 62.92 24 4 31 3868.7 4.90 180.36
 100.00 7 5 57 2806.21 -29.04 82.32 257.92 82.60 7 52 43 2206.2 -29.76 73.59
 100.00 0 3 32 4244.20 10.27 169.70 245.42 61.77 1 14 16 3644.2 6.41 163.03
 110.00 8 39 41 2512.96 -33.84 60.66 258.54 84.84 9 21 34 1913.0 -34.18 51.44
 110.00 0 46 18 4110.23 14.45 157.09 242.97 58.68 1 54 48 3510.2 10.20 150.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.3288 TRA-2.8502 TC3 -.2890 BAU .2238
 ROE -.3456 RRA .2497 RC3 -.0975 FAU .01704
 FOE 1.3523 FRA 2.1277 FC3 -.2687 BSP 8557
 BOE 1.3730 BRA 2.8612 BC3 .3050 FSP -510

SGT 2584.8 SGR 366.1 SG3 178.8
 RRT -.1482 RRF .1767 RTF -.9282
 SGB 2610.6 R23 -.0368 R13 .9284
 SG1 2585.4 SG2 362.0 THA 178.77

ST 1243.4 SR 274.2 SS 1099.2
 CRT .6798 CRS .7717 CST .9907
 LSA 1667.7 MSA 218.6 SSA 16.6
 EL1 1257.6 EL2 198.8 ALF 8.75

LAUNCH DATE NOV 18 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 310.476

RL 147.86 LAL .00 LOL 55.72 VL 26.343 GAL 11.10 AZL 86.02 HCA 124.03 SMA 120.52 ECC .29428 INC 3.9849 V1 30.133
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.917 GAP -16.02 AZP 92.23 TAL 150.25 TAP 274.27 RCA 85.05 APO 155.99 V2 35.179
 RC 45.244 GL 14.48 GP -4.93 ZAL 40.86 ZAP 5.19 ETS 72.51 ZAE 148.86 ETE 210.54 ZAC 93.89 ETC 166.73 CLP -1.62

PLANETOCENTRIC CONIC

C3 51.601 VHL 7.183 DLA 20.04 RAL 9.90 RAD 6568.9 VEL 13.152 PTH 2.40 VHP 10.411 DPA -8.27 RAP 1.70 ECC 1.8492
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 22 6 3129.52 -26.94 105.76 256.68 80.94 6 14 15 2529.5 -27.92 97.23
 90.00 22 59 57 4415.07 6.92 184.04 245.51 62.47 24 13 32 3815.1 3.18 177.35
 100.00 6 56 17 2825.81 -28.86 83.75 257.01 81.87 7 43 23 2225.8 -29.69 75.04
 100.00 0 12 23 4194.01 8.64 166.86 244.59 61.27 1 22 17 3594.0 4.74 160.25
 110.00 8 32 3 2526.21 -33.75 61.69 257.71 84.24 9 14 9 1926.2 -34.18 52.47
 110.00 0 53 6 4066.38 12.89 154.66 242.06 58.06 2 0 53 3466.4 8.58 148.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.3394 TRA-2.8244 TC3 -.2782 BAU .2049
 ROE -.3084 RRA .2413 RC3 -.1042 FAU .01799
 FOE 1.4391 FRA 2.2177 FC3 -.3018 BSP 8968
 BOE 1.3744 BRA 2.8347 BC3 .2970 FSP -561

SGT 2655.4 SGR 353.4 SG3 194.2
 RRT -.1798 RRF .2120 RTF -.9330
 SGB 2678.8 R23 -.0420 R13 .9332
 SG1 2656.1 SG2 347.5 THA 178.61

ST 1288.0 SR 253.6 SS 1150.7
 CRT .6693 CRS .7631 CST .9907
 LSA 1732.7 MSA 211.6 SSA 16.4
 EL1 1299.4 EL2 186.7 ALF 7.67

LAUNCH DATE NOV 18 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 317.317

RL 147.86 LAL .00 LOL 55.72 VL 26.482 GAL 10.68 AZL 85.91 HCA 127.26 SMA 121.33 ECC .28372 INC 4.0872 V1 30.133
 RP 107.75 LAP 3.25 LOP 183.05 VP 37.007 GAP -15.21 AZP 92.48 TAL 149.91 TAP 277.16 RCA 86.91 APO 155.76 V2 35.169
 RC 44.357 GL 15.43 GP -5.41 ZAL 40.92 ZAP 6.21 ETS 61.21 ZAE 150.82 ETE 214.07 ZAC 95.73 ETC 167.00 CLP -3.06

PLANETOCENTRIC CONIC

C3 48.617 VHL 6.973 DLA 21.00 RAL 9.73 RAD 6568.8 VEL 13.038 PTH 2.38 VHP 9.955 DPA -7.96 RAP 3.54 ECC 1.8001
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 6 3156.22 -26.64 107.66 255.68 80.04 6 2 43 2556.2 -27.75 99.16
 90.00 23 10 36 4358.67 5.14 180.85 244.77 62.12 24 23 15 3758.7 1.37 174.20
 100.00 6 45 33 2848.44 -28.64 85.39 256.06 81.03 7 33 2 2248.4 -29.58 76.71
 100.00 0 21 46 4141.69 6.91 163.94 243.80 60.85 1 30 48 3541.7 2.97 157.36
 110.00 8 23 38 2541.60 -33.64 62.88 256.85 83.55 9 6 0 1941.6 -34.17 53.67
 110.00 1 0 11 4021.30 11.25 152.19 241.18 57.51 2 7 12 3421.3 6.89 145.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.3379 TRA-2.7810 TC3 -.2531 BAU .1797
 ROE -.2703 RRA .2357 RC3 -.1111 FAU .01929
 FOE 1.5309 FRA 2.3084 FC3 -.3434 BSP 9689
 BOE 1.3649 BRA 2.7910 BC3 .2764 FSP -629

SGT 2706.3 SGR 341.2 SG3 210.6
 RRT -.2263 RRF .2601 RTF -.9380
 SGB 2727.9 R23 -.0458 R13 .9382
 SG1 2707.6 SG2 332.2 THA 178.34

ST 1322.1 SR 230.8 SS 1202.3
 CRT .6509 CRS .7485 CST .9904
 LSA 1790.1 MSA 205.3 SSA 15.8
 EL1 1330.8 EL2 174.1 ALF 6.59

LAUNCH DATE NOV 18 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 324.144

RL 147.86 LAL .00 LOL 55.72 VL 26.612 GAL 10.28 AZL 85.80 MCA 130.49 SMA 122.10 ECC .27370 INC 4.1987 V1 30.133
 RP 107.79 LAP 3.19 LOP 186.28 VP 37.090 GAP -14.42 AZP 92.73 TAL 149.60 TAP 280.09 RCA 88.68 APO 155.52 V2 35.158
 RC 43.625 GL 16.44 GP -5.96 ZAL 41.05 ZAP 7.49 ETS 53.46 ZAE 152.71 ETE 218.25 ZAC 97.55 ETC 167.29 CLP -4.55

PLANETOCENTRIC CONIC

C3 45.906 VML 6.775 DLA 22.01 RAL 9.49 RAD 6568.7 VEL 12.933 PTH 2.36 VHP 9.513 DPA -7.74 RAP 5.37 ECC 1.7555
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 32 3187.53 -26.26 109.87 254.62 79.00 5 49 39 2587.5 -27.51 101.42
 90.00 23 22 16 4298.63 3.22 177.49 244.07 61.85 24 33 54 3698.6 -5.57 170.85
 100.00 6 33 31 2874.79 -28.34 87.29 255.06 80.07 7 21 26 2274.8 -29.42 78.66
 100.00 0 31 53 4086.60 5.07 160.88 243.05 60.50 1 40 0 3486.6 1.11 154.34
 110.00 8 14 18 2559.51 -33.50 64.26 255.96 82.74 8 56 57 1959.5 -34.14 55.07
 110.00 1 7 36 3974.64 9.53 149.67 240.32 57.02 2 13 51 3374.6 5.12 143.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2300 TRA-2.6257 TC3 -.1294 BAU .1074 SGT 2616.9 SGR 330.0 SG3 224.7 ST 1264.2 SR 205.1 SS 1224.2
 RDE -.2303 RRA .2339 RC3 -.1177 FAU .02284 RRT -.3246 RRF .3382 RTF -.9466 CRT .6042 CRS .7206 CST .9877
 FDE 1.5874 FRA 2.3575 FC3 -.4307 BSP 13007 SGB 2637.6 R23 -.0280 R13 .9468 LSA 1759.6 MSA 205.8 SSA 13.9
 BDE 1.2514 BRA 2.6361 BC3 .1749 FSP -798 SG1 2619.1 SG2 311.9 THA 177.62 EL1 1270.4 EL2 162.6 ALF 5.69

LAUNCH DATE NOV 18 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 330.991

RL 147.86 LAL .00 LOL 55.72 VL 26.733 GAL 9.90 AZL 85.68 MCA 133.71 SMA 122.83 ECC .26434 INC 4.3214 V1 30.133
 RP 107.82 LAP 3.12 LOP 189.52 VP 37.166 GAP -13.66 AZP 92.99 TAL 149.32 TAP 283.03 RCA 90.36 APO 155.30 V2 35.147
 RC 43.055 GL 17.51 GP -6.60 ZAL 41.25 ZAP 8.95 ETS 48.29 ZAE 154.48 ETE 223.22 ZAC 99.36 ETC 167.61 CLP -6.06

PLANETOCENTRIC CONIC

C3 43.517 VML 6.597 DLA 23.06 RAL 9.20 RAD 6568.7 VEL 12.841 PTH 2.34 VHP 9.090 DPA -7.61 RAP 7.20 ECC 1.7162
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 3 3225.14 -25.74 112.50 253.53 77.77 5 34 49 2625.1 -27.17 104.12
 90.00 23 35 24 4234.13 1.14 173.88 243.50 61.70 24 45 58 3634.1 -2.65 167.26
 100.00 6 20 0 2906.13 -27.95 89.54 254.04 78.95 7 8 26 2306.1 -29.19 80.96
 100.00 0 43 5 4028.38 3.12 157.67 242.40 60.26 1 50 13 3428.4 -.87 151.14
 110.00 8 3 59 2580.78 -33.30 65.89 255.10 81.80 8 47 0 1980.8 -34.08 56.73
 110.00 1 15 35 3926.49 7.74 147.09 239.55 56.60 2 21 1 3326.5 3.29 140.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4462 TRA-2.7900 TC3 -.2871 BAU .1826 SGT 2942.3 SGR 322.6 SG3 252.6 ST 1484.0 SR 178.6 SS 1352.7
 RDE -.1909 RRA .2336 RC3 -.1268 FAU .02013 RRT -.3254 RRF .3832 RTF -.9439 CRT .5890 CRS .6864 CST .9917
 FDE 1.7990 FRA 2.5574 FC3 -.4006 BSP 8621 SGB 2960.0 R23 -.0769 R13 .9442 LSA 2007.0 MSA 187.7 SSA 15.8
 BDE 1.4587 BRA 2.7998 BC3 .3138 FSP -691 SG1 2944.2 SG2 304.9 THA 177.93 EL1 1487.7 EL2 144.0 ALF 4.09

LAUNCH DATE NOV 18 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 337.812

RL 147.86 LAL .00 LOL 55.72 VL 26.845 GAL 9.54 AZL 85.54 MCA 136.94 SMA 123.52 ECC .25546 INC 4.4580 V1 30.133
 RP 107.86 LAP 3.04 LOP 192.75 VP 37.236 GAP -12.92 AZP 93.26 TAL 149.08 TAP 286.02 RCA 91.97 APO 155.07 V2 35.135
 RC 42.657 GL 18.66 GP -7.36 ZAL 41.55 ZAP 10.58 ETS 44.85 ZAE 156.01 ETE 229.03 ZAC 101.14 ETC 167.98 CLP -7.62

PLANETOCENTRIC CONIC

C3 41.363 VML 6.431 DLA 24.17 RAL 8.81 RAD 6568.6 VEL 12.757 PTH 2.32 VHP 8.681 DPA -7.61 RAP 9.03 ECC 1.6807
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 47 3271.12 -25.04 115.68 252.33 76.32 5 17 18 2671.1 -26.67 107.40
 90.00 23 50 37 4162.57 -1.17 169.89 243.02 61.71 24 59 59 3562.6 -4.94 163.25
 100.00 6 4 21 2943.66 -27.43 92.21 252.95 77.64 6 53 25 2343.7 -28.86 83.70
 100.00 0 55 40 3965.26 .98 154.20 241.82 60.12 2 1 45 3365.3 -3.00 147.68
 110.00 7 52 20 2605.84 -33.04 67.80 254.19 80.70 8 35 46 2005.8 -33.97 58.68
 110.00 1 24 11 3875.84 5.83 144.41 238.81 56.26 2 28 47 3275.8 1.36 138.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4522 TRA-2.7366 TC3 -.2549 BAU .1595 SGT 2986.9 SGR 319.1 SG3 274.8 ST 1522.0 SR 148.7 SS 1420.2
 RDE -.1472 RRA .2390 RC3 -.1351 FAU .02172 RRT -.4164 RRF .4769 RTF -.9482 CRT .5017 CRS .6080 CST .9916
 FDE 1.9354 FRA 2.6705 FC3 -.4546 BSP 9328 SGB 3003.9 R23 -.0861 R13 .9485 LSA 2078.9 MSA 182.3 SSA 15.0
 BDE 1.4596 BRA 2.7470 BC3 .2885 FSP -777 SG1 2989.8 SG2 289.8 THA 177.43 EL1 1523.8 EL2 128.5 ALF 2.83

LAUNCH DATE NOV 18 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 344.623

RL 147.86 LAL .00 LOL 55.72 VL 26.950 GAL 9.20 AZL 85.39 MCA 140.16 SMA 124.17 ECC .24711 INC 4.6120 V1 30.133
 RP 107.89 LAP 2.95 LOP 195.97 VP 37.300 GAP -12.20 AZP 93.54 TAL 148.87 TAP 289.03 RCA 93.49 APO 154.85 V2 35.123
 RC 42.436 GL 19.91 GP -8.25 ZAL 41.95 ZAP 12.36 ETS 42.67 ZAE 157.21 ETE 235.71 ZAC 102.90 ETC 168.40 CLP -9.23

PLANETOCENTRIC CONIC

C3 39.471 VML 6.283 DLA 25.34 RAL 8.34 RAD 6568.5 VEL 12.682 PTH 2.30 VHP 8.289 DPA -7.76 RAP 10.88 ECC 1.6496
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 0 28 3329.81 -24.03 119.69 250.99 74.56 4 55 58 2729.8 -25.92 111.53
 90.00 0 13 7 4080.23 -3.82 165.29 242.73 61.92 1 21 7 3480.2 -7.55 158.60
 100.00 5 45 54 2989.89 -26.72 95.46 251.77 76.07 6 35 44 2389.9 -28.37 87.05
 100.00 1 10 22 3895.38 -1.39 150.37 241.39 60.14 2 15 18 3295.4 -5.36 143.82
 110.00 7 39 3 2635.87 -32.69 70.07 253.26 79.39 8 22 59 2035.9 -33.80 61.01
 110.00 1 33 42 3822.17 3.79 141.59 238.15 56.00 2 37 25 3222.2 -.69 135.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4752 TRA-2.6932 TC3 -.2327 BAU .1445 SGT 3046.5 SGR 323.2 SG3 299.7 ST 1573.1 SR 118.2 SS 1498.7
 RDE -.0995 RRA .2495 RC3 -.1442 FAU .02313 RRT -.5171 RRF .5819 RTF -.9518 CRT .3257 CRS .4431 CST .9917
 FDE 2.0984 FRA 2.7973 FC3 -.5073 BSP 9695 SGB 3063.6 R23 -.1001 R13 .9523 LSA 2168.7 MSA 176.9 SSA 14.2
 BDE 1.4786 BRA 2.7048 BC3 .2738 FSP -858 SG1 3051.1 SG2 276.2 THA 176.83 EL1 1573.6 EL2 111.7 ALF 1.41

LAUNCH DATE NOV 18 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.047 GAL 8.88 AZL 85.21 MCA 143.38 SMA 124.78 ECC .23928 INC 4.7882 V1 30.133
 RP 107.93 LAP 2.85 LOP 199.20 VP 37.359 GAP -11.50 AZP 93.85 TAL 148.69 TAP 292.07 RCA 94.92 APO 154.64 V2 35.111
 RC 42.394 GL 21.26 GP -9.33 ZAL 42.45 ZAP 14.31 ETS 41.42 ZAE 157.94 ETE 243.11 ZAC 104.64 ETC 168.91 CLP -10.89

DISTANCE 351.422

PLANETOCENTRIC CONIC

C3 37.839 VHL 6.151 DLA 26.60 RAL 7.77 RAD 6568.5 VEL 12.618 PTH 2.29 VHP 7.914 DPA -8.09 RAP 12.75 ECC 1.6227
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 31 3 3410.88 -22.46 125.11 249.37 72.28 4 27 54 2810.9 -24.67 117.14
 90.00 0 38 0 3977.82 -7.07 159.52 242.77 62.51 1 44 18 3377.8 -10.70 152.72
 100.00 5 23 16 3049.13 -25.68 99.56 250.43 74.15 6 14 5 2449.1 -27.61 91.28
 100.00 1 28 28 3814.80 -4.12 145.94 241.16 60.37 2 32 3 3214.8 -8.03 139.34
 110.00 7 23 41 2672.35 -32.20 72.80 252.29 77.85 8 8 13 2072.3 -33.54 63.82
 110.00 1 44 33 3764.35 1.59 138.57 237.61 55.85 2 47 17 3164.3 -2.90 132.37

DIFFERENTIAL CORRECTIONS

TOE-1.5045 TRA-2.6475 TC3 -.2101 BAU .1319
 RDE -.0461 RRA .2664 RC3 -.1543 FAU .02459
 FDE 2.2865 FRA 2.9315 FC3 -.5626 BSP 10019
 BOE 1.5052 BRA 2.6608 BC3 .2607 FSP -945

MID-COURSE EXECUTION ACCURACY

SGT 3104.2 SGR 339.0 SG3 327.2
 RRT -.6235 RRF .6913 RTF -.9551
 SGB 3122.6 R23 -.1169 R13 .9558
 SG1 3111.4 SG2 264.4 THA 176.08

ORBIT DETERMINATION ACCURACY

ST 1627.3 SR 93.9 SS 1585.3
 CRT -.0564 CRS .0696 CST .9918
 LSA 2267.2 MSA 172.3 SSA 13.2
 EL1 1627.4 EL2 93.7 ALF 179.81

LAUNCH DATE NOV 18 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.136 GAL 8.58 AZL 85.01 MCA 146.60 SMA 125.35 ECC .23194 INC 4.9931 V1 30.133
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.412 GAP -10.82 AZP 94.17 TAL 148.54 TAP 295.14 RCA 96.28 APO 154.43 V2 35.099
 RC 42.534 GL 22.75 GP -10.64 ZAL 43.08 ZAP 16.45 ETS 40.92 ZAE 158.11 ETE 250.89 ZAC 106.36 ETC 169.53 CLP -12.61

DISTANCE 358.208

PLANETOCENTRIC CONIC

C3 36.475 VHL 6.039 DLA 27.95 RAL 7.09 RAD 6568.4 VEL 12.564 PTH 2.28 VHP 7.558 DPA -8.67 RAP 14.66 ECC 1.6003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 41 38 3555.62 -19.16 134.44 246.92 68.74 3 40 53 2955.6 -21.88 126.83
 90.00 1 21 57 3814.52 -12.07 150.13 243.72 64.19 2 25 31 3214.5 -15.45 143.08
 100.00 4 53 20 3131.05 -24.04 105.09 248.81 71.68 5 45 31 2531.0 -26.32 97.03
 100.00 1 52 56 3714.33 -7.47 140.36 241.29 60.97 2 54 50 3114.3 -11.28 133.65
 110.00 7 5 25 2717.64 -31.50 76.15 251.25 75.98 7 50 43 2117.6 -33.10 67.29
 110.00 1 57 20 3700.50 -.85 135.24 237.22 55.83 2 59 0 3100.5 -5.33 129.02

DIFFERENTIAL CORRECTIONS

TOE-1.5436 TRA-2.6015 TC3 -.1902 BAU .1230
 RDE .0156 RRA .2913 RC3 -.1657 FAU .02602
 FDE 2.5062 FRA 3.0729 FC3 -.6176 BSP 10236
 BOE 1.5437 BRA 2.6178 BC3 .2522 FSP -1036

MID-COURSE EXECUTION ACCURACY

SGT 3162.9 SGR 371.7 SG3 357.3
 RRT -.7229 RRF .7917 RTF -.9581
 SGB 3184.6 R23 -.1369 R13 .9591
 SG1 3174.3 SG2 255.9 THA 175.11

ORBIT DETERMINATION ACCURACY

ST 1687.4 SR 95.2 SS 1681.9
 CRT -.6240 CRS -.5226 CST .9921
 LSA 2378.3 MSA 168.5 SSA 12.2
 EL1 1688.4 EL2 74.3 ALF 177.98

LAUNCH DATE NOV 18 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.219 GAL 8.30 AZL 84.76 MCA 149.81 SMA 125.89 ECC .22509 INC 5.2359 V1 30.133
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.460 GAP -10.16 AZP 94.53 TAL 148.42 TAP 298.23 RCA 97.55 APO 154.22 V2 35.086
 RC 42.853 GL 24.40 GP -12.25 ZAL 43.85 ZAP 18.82 ETS 41.06 ZAE 157.61 ETE 258.56 ZAC 108.06 ETC 170.31 CLP -14.40

DISTANCE 364.978

PLANETOCENTRIC CONIC

C3 35.357 VHL 5.950 DLA 29.44 RAL 6.26 RAD 6568.4 VEL 12.521 PTH 2.27 VHP 7.224 DPA -9.54 RAP 16.63 ECC 1.5826
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.60 0 49 35 3900.08 -16.59 158.60 244.43 65.33 1 54 35 3300.1 -19.78 151.29
 98.40 3 7 23 3454.91 -16.57 125.91 244.42 65.32 4 4 58 2854.9 -19.76 118.60
 100.00 4 3 36 3274.94 -20.65 114.43 246.28 67.89 4 58 11 2674.9 -23.47 106.76
 100.00 2 36 3 3555.29 -12.59 131.34 242.41 62.67 3 35 18 2955.3 -16.16 124.36
 110.00 6 42 55 2775.76 -30.46 80.36 250.06 73.69 7 29 11 2175.8 -32.40 71.67
 110.00 2 13 13 3627.23 -3.65 131.41 237.06 55.99 3 13 40 3027.2 -8.09 125.14

DIFFERENTIAL CORRECTIONS

TOE-1.5867 TRA-2.5474 TC3 -.1653 BAU .1152
 RDE .0894 RRA .3260 RC3 -.1787 FAU .02756
 FDE 2.7583 FRA 3.2129 FC3 -.6740 BSP 10525
 BOE 1.5892 BRA 2.5682 BC3 .2434 FSP -1139

MID-COURSE EXECUTION ACCURACY

SGT 3210.7 SGR 427.2 SG3 389.5
 RRT -.8056 RRF .8722 RTF -.9610
 SGB 3239.0 R23 -.1573 R13 .9624
 SG1 3229.2 SG2 251.7 THA 173.84

ORBIT DETERMINATION ACCURACY

ST 1746.2 SR 138.4 SS 1786.4
 CRT -.9225 CRS -.8688 CST .9923
 LSA 2496.4 MSA 166.2 SSA 11.0
 EL1 1750.8 EL2 53.3 ALF 175.82

LAUNCH DATE NOV 18 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.296 GAL 8.03 AZL 84.47 MCA 153.02 SMA 126.39 ECC .21870 INC 5.5304 V1 30.133
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.504 GAP -9.52 AZP 94.93 TAL 148.32 TAP 301.35 RCA 98.75 APO 154.03 V2 35.073
 RC 43.347 GL 26.26 GP -14.27 ZAL 44.81 ZAP 21.50 ETS 41.79 ZAE 156.37 ETE 265.56 ZAC 109.74 ETC 171.31 CLP -16.25

DISTANCE 371.732

PLANETOCENTRIC CONIC

C3 34.648 VHL 5.886 DLA 31.09 RAL 5.25 RAD 6568.4 VEL 12.491 PTH 2.26 VHP 6.916 DPA -10.82 RAP 18.71 ECC 1.5702
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.61 0 8 12 4013.55 -17.61 167.57 243.50 63.96 1 15 6 3413.5 -20.97 160.29
 103.39 3 40 43 3330.64 -17.60 117.15 243.49 63.95 4 36 13 2730.6 -20.96 109.87
 76.61 0 8 12 4013.55 -17.61 167.57 243.50 63.96 1 15 6 3413.5 -20.97 160.29
 103.39 3 40 43 3330.64 -17.60 117.15 243.49 63.95 4 36 13 2730.6 -20.96 109.87
 110.00 6 13 24 2854.99 -28.82 85.94 248.57 70.76 7 0 59 2255.0 -31.16 77.52
 110.00 2 34 41 3537.19 -7.06 126.67 237.33 56.47 3 33 39 2937.2 -11.42 120.29

DIFFERENTIAL CORRECTIONS

TOE-1.6443 TRA-2.4920 TC3 -.1446 BAU .1119
 RDE .1813 RRA .3733 RC3 -.1936 FAU .02891
 FDE 3.0536 FRA 3.3487 FC3 -.7224 BSP 10723
 BOE 1.6543 BRA 2.5198 BC3 .2416 FSP -1243

MID-COURSE EXECUTION ACCURACY

SGT 3257.8 SGR 512.9 SG3 423.7
 RRT -.8650 RRF .9277 RTF -.9636
 SGB 3298.0 R23 -.1774 R13 .9655
 SG1 3288.1 SG2 255.0 THA 172.20

ORBIT DETERMINATION ACCURACY

ST 1812.2 SR 217.7 SS 1902.7
 CRT -.9901 CRS -.9667 CST .9926
 LSA 2631.4 MSA 165.2 SSA 9.7
 EL1 1824.9 EL2 30.4 ALF 173.21

LAUNCH DATE NOV 18 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.366 GAL 7.78 AZL 84.10 MCA 156.23 SMA 126.85 ECC .21276 INC 5.8976 V1 30.133
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.543 GAP -8.90 AZP 95.40 TAL 148.25 TAP 304.49 RCA 99.86 APO 153.84 V2 35.060
 RC 44.011 GL 28.40 GP -16.84 ZAL 46.00 ZAP 24.58 ETS 43.10 ZAE 154.31 ETE 271.47 ZAC 111.40 ETC 172.62 CLP -18.17

PLANETOCENTRIC CONIC

C3 34.300 VHL 5.857 DLA 32.95 RAL 4.00 RAD 6568.4 VEL 12.477 PTH 2.26 VHP 6.642 DPA -12.62 RAP 20.97 ECC 1.5645
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.41 23 30 57 4099.54 -18.67 174.68 242.61 62.34 24 39 16 3499.5 -22.22 167.44
 107.59 4 4 4 3239.54 -18.65 110.78 242.60 62.33 4 58 4 2639.5 -22.20 103.54
 72.41 23 30 57 4099.54 -18.67 174.68 242.61 62.34 24 39 16 3499.5 -22.22 167.44
 107.59 4 4 4 3239.54 -18.65 110.78 242.60 62.33 4 58 4 2639.5 -22.20 103.54
 110.00 5 28 25 2980.23 -25.71 94.35 246.23 66.66 6 18 5 2380.2 -28.64 86.40
 110.00 3 9 42 3406.85 -11.89 119.67 238.56 57.71 4 6 29 2806.8 -16.07 113.05

DIFFERENTIAL CORRECTIONS

TDE-1.7177 TRA-2.4300 TC3 -.1241 BAU .1121
 RDE .3009 RRA .4364 RC3 -.2106 FAU .03005
 FDE 3.3956 FRA 3.4634 FC3 -.7584 BSP 10937
 BDE 1.7438 BRA 2.4689 BC3 .2444 FSP -1350

MID-COURSE EXECUTION ACCURACY

SGT 3297.1 SGR 637.5 SG3 458.2
 RRT -.9041 RRF .9617 RTF -.9660
 SGB 3358.2 R23 -.1931 R13 .9688
 SG1 3347.4 SG2 268.3 THA 170.02

ORBIT DETERMINATION ACCURACY

ST 1883.1 SR 331.7 SS 2029.2
 CRT -.9996 CRS -.9916 CST .9929
 LSA 2783.2 MSA 165.9 SSA 8.3
 EL1 1912.1 EL2 8.7 ALF 170.01

LAUNCH DATE NOV 18 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.431 GAL 7.55 AZL 83.63 MCA 159.44 SMA 127.28 ECC .20726 INC 6.3714 V1 30.133
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.578 GAP -8.29 AZP 95.97 TAL 148.20 TAP 307.64 RCA 100.90 APO 153.67 V2 35.047
 RC 44.838 GL 30.92 GP -20.18 ZAL 47.50 ZAP 28.21 ETS 45.03 ZAE 151.31 ETE 276.07 ZAC 113.04 ETC 174.41 CLP -20.14

PLANETOCENTRIC CONIC

C3 34.492 VHL 5.873 DLA 35.10 RAL 2.41 RAD 6568.4 VEL 12.484 PTH 2.26 VHP 6.416 DPA -15.16 RAP 23.53 ECC 1.5676
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.34 22 59 57 4176.26 -19.73 181.27 241.75 60.36 24 9 33 3576.3 -23.52 174.11
 111.66 4 22 24 3165.64 -19.71 105.63 241.74 60.35 5 15 10 2565.6 -23.51 98.47
 68.34 22 59 57 4176.26 -19.73 181.27 241.75 60.36 24 9 33 3576.3 -23.52 174.11
 111.66 4 22 24 3165.64 -19.71 105.63 241.74 60.35 5 15 10 2565.6 -23.51 98.47
 68.34 22 59 57 4176.26 -19.73 181.27 241.75 60.36 24 9 33 3576.3 -23.52 174.11
 111.66 4 22 24 3165.64 -19.71 105.63 241.74 60.35 5 15 10 2565.6 -23.51 98.47

DIFFERENTIAL CORRECTIONS

TDE-1.8164 TRA-2.3624 TC3 -.1063 BAU .1166
 RDE .4640 RRA .5193 RC3 -.2293 FAU .03062
 FDE 3.7876 FRA 3.5331 FC3 -.7686 BSP 11167
 BDE 1.8747 BRA 2.4188 BC3 .2528 FSP -1451

MID-COURSE EXECUTION ACCURACY

SGT 3330.3 SGR 813.0 SG3 490.4
 RRT -.9281 RRF .9805 RTF -.9682
 SGB 3428.1 R23 -.2008 R13 .9724
 SG1 3415.4 SG2 295.1 THA 167.14

ORBIT DETERMINATION ACCURACY

ST 1963.2 SR 489.4 SS 2164.8
 CRT -.9983 CRS -.9982 CST .9933
 LSA 2958.4 MSA 168.3 SSA 6.8
 EL1 2023.1 EL2 27.8 ALF 166.02

LAUNCH DATE NOV 18 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.490 GAL 7.34 AZL 82.99 MCA 162.64 SMA 127.68 ECC .20219 INC 7.0109 V1 30.133
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.608 GAP -7.70 AZP 96.69 TAL 148.17 TAP 310.81 RCA 101.87 APO 153.50 V2 35.033
 RC 45.818 GL 33.96 GP -24.63 ZAL 49.45 ZAP 32.64 ETS 47.61 ZAE 147.13 ETE 279.40 ZAC 114.64 ETC 176.91 CLP -22.13

PLANETOCENTRIC CONIC

C3 35.498 VHL 5.958 DLA 37.64 RAL .32 RAD 6568.4 VEL 12.525 PTH 2.27 VHP 6.265 DPA -18.70 RAP 26.58 ECC 1.5842
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.09 22 28 40 4251.51 -20.75 187.96 240.92 57.86 23 39 32 3651.5 -24.84 180.92
 115.91 4 36 58 3104.90 -20.73 101.41 240.91 57.85 5 28 43 2504.9 -24.83 94.36
 64.09 22 28 40 4251.51 -20.75 187.96 240.92 57.86 23 39 32 3651.5 -24.84 180.92
 115.91 4 36 58 3104.90 -20.73 101.41 240.91 57.85 5 28 43 2504.9 -24.83 94.36
 64.09 22 28 40 4251.51 -20.75 187.96 240.92 57.86 23 39 32 3651.5 -24.84 180.92
 115.91 4 36 58 3104.90 -20.73 101.41 240.91 57.85 5 28 43 2504.9 -24.83 94.36

DIFFERENTIAL CORRECTIONS

TDE-1.9585 TRA-2.2881 TC3 -.0928 BAU .1255
 RDE .6987 RRA .6255 RC3 -.2476 FAU .03009
 FDE 4.2222 FRA 3.5131 FC3 -.7338 BSP 11447
 BDE 2.0794 BRA 2.3720 BC3 .2644 FSP -1528

MID-COURSE EXECUTION ACCURACY

SGT 3358.7 SGR 1056.2 SG3 514.5
 RRT -.9426 RRF .9902 RTF -.9704
 SGB 3520.9 R23 -.1981 R13 .9765
 SG1 3504.6 SG2 338.1 THA 163.33

ORBIT DETERMINATION ACCURACY

ST 2059.6 SR 709.5 SS 2304.6
 CRT -.9959 CRS -.9997 CST .9938
 LSA 3166.5 MSA 172.4 SSA 5.4
 EL1 2177.6 EL2 60.8 ALF 161.05

LAUNCH DATE NOV 18 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.544 GAL 7.14 AZL 82.07 MCA 165.84 SMA 128.05 ECC .19753 INC 7.9280 V1 30.133
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.636 GAP -7.12 AZP 97.69 TAL 148.14 TAP 313.98 RCA 102.76 APO 153.34 V2 35.020
 RC 46.944 GL 37.75 GP -30.71 ZAL 52.06 ZAP 38.27 ETS 50.96 ZAE 141.32 ETE 281.68 ZAC 116.12 ETC 180.56 CLP -24.05

PLANETOCENTRIC CONIC

C3 37.914 VHL 6.157 DLA 40.72 RAL 357.40 RAD 6568.5 VEL 12.621 PTH 2.29 VHP 6.248 DPA -23.66 RAP 30.53 ECC 1.6240
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.41 21 54 50 4331.61 -21.58 195.26 240.06 54.59 23 7 1 3731.6 -26.06 188.42
 120.59 4 47 33 3058.09 -21.57 98.09 240.05 54.58 5 38 31 2458.1 -26.04 91.26
 59.41 21 54 50 4331.61 -21.58 195.26 240.06 54.59 23 7 1 3731.6 -26.06 188.42
 120.59 4 47 33 3058.09 -21.57 98.09 240.05 54.58 5 38 31 2458.1 -26.04 91.26
 59.41 21 54 50 4331.61 -21.58 195.26 240.06 54.59 23 7 1 3731.6 -26.06 188.42
 120.59 4 47 33 3058.09 -21.57 98.09 240.05 54.58 5 38 31 2458.1 -26.04 91.26

DIFFERENTIAL CORRECTIONS

TDE-2.1830 TRA-2.2077 TC3 -.0861 BAU .1384
 RDE 1.0562 RRA .7535 RC3 -.2591 FAU .02752
 FDE 4.6614 FRA 3.3272 FC3 -.6283 BSP 11851
 BDE 2.4250 BRA 2.3327 BC3 .2731 FSP -1552

MID-COURSE EXECUTION ACCURACY

SGT 3388.9 SGR 1387.0 SG3 519.1
 RRT -.9511 RRF .9947 RTF -.9725
 SGB 3661.8 R23 -.1836 R13 .9813
 SG1 3640.0 SG2 399.0 THA 158.46

ORBIT DETERMINATION ACCURACY

ST 2188.0 SR 1021.3 SS 2433.1
 CRT -.9944 CRS -1.0000 CST .9944
 LSA 3423.2 MSA 177.9 SSA 4.0
 EL1 2412.6 EL2 98.1 ALF 155.06

LAUNCH DATE NOV 18 1968

FLIGHT TIME 158.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 405.195

RL 147.86 LAL .00 LOL 55.72 VL 27.594 GAL 6.96 AZL 80.64 HCA 169.02 SMA 128.39 ECC .19326 INC 9.3642 V1 30.133
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.660 GAP -6.57 AZP 99.20 TAL 148.13 TAP 317.16 RCA 103.58 APO 153.20 V2 35.007
 RC 48.205 GL 42.67 GP -39.18 ZAL 55.70 ZAP 45.66 ETS 55.25 ZAE 133.14 ETE 283.55 ZAC 117.30 ETC 186.14 CLP -25.63

PLANETOCENTRIC CONIC

C3 43.238 VHL 6.576 CLA 44.53 RAL 353.04 RAD 6568.6 VEL 12.830 PTH 2.34 VHP 6.501 DPA -30.59 RAP 36.21 ECC 1.7116
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.07 21 15 20 4424.69 -21.85 203.70 238.99 50.18 22 29 4 3824.7 -26.83 197.24
 125.93 4 52 13 3031.35 -21.84 95.96 238.98 50.17 5 42 45 2431.4 -26.82 89.50
 54.07 21 15 20 4424.69 -21.85 203.70 238.99 50.18 22 29 4 3824.7 -26.83 197.24
 125.93 4 52 13 3031.35 -21.84 95.96 238.98 50.17 5 42 45 2431.4 -26.82 89.50
 54.07 21 15 20 4424.69 -21.85 203.70 238.99 50.18 22 29 4 3824.7 -26.83 197.24
 125.93 4 52 13 3031.35 -21.84 95.96 238.98 50.17 5 42 45 2431.4 -26.82 89.50

DIFFERENTIAL CORRECTIONS

TDE-2.5863 TRA-2.1222 TC3 -.0894 BAU .1524
 RDE 1.6341 RRA .8810 RC3 -.2481 FAU .02139
 FDE 4.9891 FRA 2.8599 FC3 -.4282 BSP 12500
 BOE 3.0593 BRA 2.2978 BC3 .2637 FSP -1466

MID-COURSE EXECUTION ACCURACY

SGT 3438.1 SGR 1814.8 SG3 484.4
 RRT -.9558 RRF .9964 RTF -.9752
 SGB 3887.7 R23 -.1565 R13 .9870
 SG1 3858.5 SG2 475.5 THA 152.78

ORBIT DETERMINATION ACCURACY

ST 2384.1 SR 1460.1 SS 2512.0
 CRT -.9940 CRS -.9999 CST .9954
 LSA 3754.0 MSA 183.9 SSA 2.7
 EL1 2792.4 EL2 136.5 ALF 148.58

LAUNCH DATE NOV 18 1968

FLIGHT TIME 160.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 411.805

RL 147.86 LAL .00 LOL 55.72 VL 27.639 GAL 6.80 AZL 78.05 HCA 172.20 SMA 128.70 ECC .18941 INC11.9513 V1 30.133
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.680 GAP -6.03 AZP 101.84 TAL 148.12 TAP 320.32 RCA 104.32 APO 153.07 V2 34.994
 RC 49.590 GL 49.26 GP -51.08 ZAL 61.03 ZAP 55.58 ETS 61.42 ZAE 121.47 ETE 286.67 ZAC 117.74 ETC 195.45 CLP -25.87

PLANETOCENTRIC CONIC

C3 56.269 VHL 7.501 CLA 49.14 RAL 345.83 RAD 6569.0 VEL 13.328 PTH 2.44 VHP 7.415 DPA -39.91 RAP 45.66 ECC 1.9260
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.00 20 24 53 4545.02 -20.50 213.82 236.97 44.30 21 40 38 3945.0 -26.11 208.02
 132.00 4 45 7 3042.38 -20.49 95.67 236.95 44.30 5 35 49 2442.4 -26.10 89.87
 48.00 20 24 53 4545.02 -20.50 213.82 236.97 44.30 21 40 38 3945.0 -26.11 208.02
 132.00 4 45 7 3042.38 -20.49 95.67 236.95 44.30 5 35 49 2442.4 -26.10 89.87
 48.00 20 24 53 4545.02 -20.50 213.82 236.97 44.30 21 40 38 3945.0 -26.11 208.02
 132.00 4 45 7 3042.38 -20.49 95.67 236.95 44.30 5 35 49 2442.4 -26.10 89.87

DIFFERENTIAL CORRECTIONS

TDE-3.4869 TRA-2.0427 TC3 -.1101 BAU .1599
 RDE 2.5989 RRA .9067 RC3 -.1818 FAU .00992
 FDE 4.9429 FRA 2.0113 FC3 -.1526 BSP 13492
 BOE 4.3489 BRA 2.2349 BC3 .2125 FSP -1188

MID-COURSE EXECUTION ACCURACY

SGT 3579.0 SGR 2266.2 SG3 384.7
 RRT -.9576 RRF .9954 RTF -.9802
 SGB 4236.1 R23 -.1160 R13 .9931
 SG1 4199.4 SG2 556.4 THA 148.14

ORBIT DETERMINATION ACCURACY

ST 2757.8 SR 2010.4 SS 2460.5
 CRT -.9946 CRS -.9997 CST .9970
 LSA 4203.0 MSA 188.5 SSA 1.5
 EL1 3408.6 EL2 168.8 ALF 143.95

LAUNCH DATE NOV 18 1968

FLIGHT TIME 162.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 418.349

RL 147.86 LAL .00 LOL 55.72 VL 27.679 GAL 6.66 AZL 71.99 HCA 175.33 SMA 128.98 ECC .18600 INC18.0066 V1 30.133
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.698 GAP -5.51 AZP 107.95 TAL 148.09 TAP 323.42 RCA 104.99 APO 152.97 V2 34.980
 RC 51.091 GL 57.80 GP -67.14 ZAL 69.17 ZAP 68.38 ETS 77.06 ZAE 105.00 ETE 299.83 ZAC 117.07 ETC 217.10 CLP -18.46

PLANETOCENTRIC CONIC

C3 100.867 VHL 10.043 CLA 53.55 RAL 332.75 RAD 6570.0 VEL 14.907 PTH 2.69 VHP 10.456 DPA -50.32 RAP 64.67 ECC 2.6600
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.44 19 15 27 4719.88 -14.70 225.11 231.59 37.89 20 34 7 4119.9 -20.95 220.28
 137.56 4 10 13 3137.69 -14.69 98.64 231.57 37.89 5 2 30 2537.7 -20.94 93.80
 42.44 19 15 27 4719.88 -14.70 225.11 231.59 37.89 20 34 7 4119.9 -20.95 220.28
 137.56 4 10 13 3137.69 -14.69 98.64 231.57 37.89 5 2 30 2537.7 -20.94 93.80
 42.44 19 15 27 4719.88 -14.70 225.11 231.59 37.89 20 34 7 4119.9 -20.95 220.28
 137.56 4 10 13 3137.69 -14.69 98.64 231.57 37.89 5 2 30 2537.7 -20.94 93.80

DIFFERENTIAL CORRECTIONS

TDE-6.5696 TRA-1.9854 TC3 -.1780 BAU .2469
 RDE 3.4596 RRA .3482 RC3 -.0430 FAU-.00746
 FDE 4.2111 FRA .9262 FC3 .0640 BSP 14434
 BOE 7.4248 BRA 2.0157 BC3 .1831 FSP -694

MID-COURSE EXECUTION ACCURACY

SGT 4220.1 SGR 2003.7 SG3 221.6
 RRT -.9466 RRF .9783 RTF -.9927
 SGB 4671.6 R23 -.0619 R13 .9980
 SG1 4634.4 SG2 588.5 THA 155.38

ORBIT DETERMINATION ACCURACY

ST 3791.3 SR 1976.2 SS 2183.6
 CRT -.9949 CRS -.9982 CST .9992
 LSA 4797.4 MSA 180.4 SSA 1.0
 EL1 4271.8 EL2 176.4 ALF 152.54

LAUNCH DATE NOV 18 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 424.581

RL 147.86 LAL .00 LOL 55.72 VL 27.716 GAL 6.59 AZL 44.57 HCA 178.22 SMA 129.23 ECC .18348 INC45.4267 V1 30.133
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.713 GAP -5.07 AZP 135.41 TAL 147.89 TAP 326.11 RCA 105.52 APO 152.94 V2 34.967
 RC 52.697 GL 59.89 GP -72.42 ZAL 81.01 ZAP 82.27 ETS 162.06 ZAE 79.37 ETE 22.36 ZAC 118.75 ETC 313.98 CLP 63.54

PLANETOCENTRIC CONIC

C3 514.041 VHL 22.672 CLA 47.58 RAL 315.59 RAD 6572.4 VEL 25.206 PTH 3.35 VHP 26.503 DPA -48.66 RAP 107.28 ECC 9.4598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.02 18 31 7 4898.59 -1.75 227.89 224.00 42.44 19 52 46 4298.6 -7.64 222.87
 129.98 2 37 39 3429.45 -1.74 113.03 223.98 42.44 3 34 48 2829.5 -7.63 108.01
 50.02 18 31 7 4898.59 -1.75 227.89 224.00 42.44 19 52 46 4298.6 -7.64 222.87
 129.98 2 37 39 3429.45 -1.74 113.03 223.98 42.44 3 34 48 2829.5 -7.63 108.01
 50.02 18 31 7 4898.59 -1.75 227.89 224.00 42.44 19 52 46 4298.6 -7.64 222.87
 129.98 2 37 39 3429.45 -1.74 113.03 223.98 42.44 3 34 48 2829.5 -7.63 108.01

DIFFERENTIAL CORRECTIONS

TDE-8.6958 TRA .5764 TC3 -.1840 BAU 2.3267
 RD-15.3292 RRA-1.9959 RC3 -.2842 FAU-.04589
 FDE 3.8264 FRA .3119 FC3 .0773 BSP 12994
 BOE17.6239 BRA 2.0775 BC3 .3386 FSP -255

MID-COURSE EXECUTION ACCURACY

SGT 2360.5 SGR 4150.5 SG3 89.4
 RRT .9622 RRF -.9973 RTF -.9790
 SGB 4774.8 R23 .0051 R13 -.9999
 SG1 4741.5 SG2 562.9 THA 60.86

ORBIT DETERMINATION ACCURACY

ST 2198.6 SR 3880.5 SS 2215.8
 CRT .9962 CRS .9998 CST .9978
 LSA 4977.4 MSA 166.9 SSA 1.1
 EL1 4457.0 EL2 166.9 ALF 60.51

LAUNCH DATE NOV 18 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.749 GAL 6.29 AZL 119.38 HCA 182.22 SMA 129.46 ECC .17881 INC29.3837 V1 30.133
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.725 GAP -4.33 AZP 60.63 TAL 148.49 TAP 330.71 RCA 106.31 APO 152.61 V2 34.954
 RC 54.398 GL -62.71 GP 77.53 ZAL 77.08 ZAP 81.48 ETS 238.20 ZAE 94.39 ETE 10.97 ZAC 87.60 ETC 87.23 CLP 46.64

PLANETOCENTRIC CONIC

C3 231.910 VHL 15.229 DLA -56.26 RAL 34.69 RAD 6571.3 VEL 18.794 PTH 3.06 VHP 20.745 DPA 77.83 RAP 270.86 ECC 4.8167
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.12 11 14 59 2244.36 6.87 64.37 300.05 145.98 11 52 24 1644.4 13.48 60.19
 140.88 20 24 50 621.89 6.89 293.33 300.08 145.98 20 35 12 21.9 13.49 289.15
 39.12 11 14 59 2244.36 6.87 64.37 300.05 145.98 11 52 24 1644.4 13.48 60.19
 140.88 20 24 50 621.89 6.89 293.33 300.08 145.98 20 35 12 21.9 13.49 289.15
 39.12 11 14 59 2244.36 6.87 64.37 300.05 145.98 11 52 24 1644.4 13.48 60.19
 140.88 20 24 50 621.89 6.89 293.33 300.08 145.98 20 35 12 21.9 13.49 289.15

DIFFERENTIAL CORRECTIONS

TDE -.8358 TRA-6.6875 TC3 -.2632 BAU .8940 SGT 4610.9 SGR 1810.7 SG3 107.4 ST 1395.1 SR 860.5 SS 691.5
 RDE 1.8833 RRA 2.4025 RC3 .1177 FAU .01879 RRT -.9440 RRF .9536 RTF -.9995 CRT -.7385 CRS -.8004 CST .9953
 FDE .3271 FRA 1.7991 FC3 .0701 BSP 15455 SGB 4953.7 R23 .0123 R13 .9999 LSA 1700.3 MSA 523.2 SSA .4
 BDE 2.0605 BRA 7.1060 BC3 .2883 FSP -344 SGI 4922.0 SG2 559.6 THA 159.38 ELI 1554.2 EL2 520.9 ALF 152.11

LAUNCH DATE NOV 18 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.778 GAL 6.23 AZL 100.09 HCA 185.21 SMA 129.67 ECC .17674 INC10.0920 V1 30.133
 RP 108.45 LAP .91 LOP 240.85 VP 37.734 GAP -3.89 AZP 79.95 TAL 148.35 TAP 333.55 RCA 106.75 APO 152.58 V2 34.942
 RC 56.186 GL -47.20 GP 69.42 ZAL 59.20 ZAP 72.53 ETS 308.93 ZAE 114.29 ETE 75.71 ZAC 87.76 ETC 149.35 CLP -31.33

PLANETOCENTRIC CONIC

C3 43.486 VHL 6.594 DLA -37.22 RAL 34.36 RAD 6568.6 VEL 12.839 PTH 2.34 VHP 9.266 DPA 65.12 RAP 328.66 ECC 1.7157
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.76 12 49 47 1648.99 18.66 20.98 277.95 122.81 13 17 16 1049.0 22.85 14.11
 115.24 18 47 28 5809.93 18.68 273.94 277.96 122.80 20 24 18 5209.9 22.86 267.07
 64.76 12 49 47 1648.99 18.66 20.98 277.95 122.81 13 17 16 1049.0 22.85 14.11
 115.24 18 47 28 5809.93 18.68 273.94 277.96 122.80 20 24 18 5209.9 22.86 267.07
 64.76 12 49 47 1648.99 18.66 20.98 277.95 122.81 13 17 16 1049.0 22.85 14.11
 115.24 18 47 28 5809.93 18.68 273.94 277.96 122.80 20 24 18 5209.9 22.86 267.07

DIFFERENTIAL CORRECTIONS

TDE -1.1378 TRA-2.6366 TC3 -.0651 BAU .1950 SGT 3105.1 SGR 3847.0 SG3 272.4 ST 1325.3 SR 1218.5 SS 855.9
 RDE -.4967 RRA-3.4808 RC3 .3291 FAU .01209 RRT .9681 RRF -.9983 RTF -.9800 CRT .8870 CRS -.9874 CST .9489
 FDE .6125 FRA 2.8326 FC3 -.2407 BSP 15696 SGB 4943.8 R23 -.0450 R13 -.9988 LSA 1945.7 MSA 433.5 SSA 1.7
 BDE 1.2415 BRA 4.4031 BC3 .3355 FSP -873 SGI 4906.0 SG2 610.2 THA 51.29 ELI 1749.1 EL2 426.3 ALF 42.29

LAUNCH DATE NOV 18 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.804 GAL 6.15 AZL 95.02 HCA 188.34 SMA 129.85 ECC .17464 INC 5.0233 V1 30.133
 RP 108.49 LAP .73 LOP 244.03 VP 37.742 GAP -3.41 AZP 85.03 TAL 148.31 TAP 336.65 RCA 107.17 APO 152.53 V2 34.929
 RC 58.051 GL -29.78 GP 57.88 ZAL 46.72 ZAP 67.38 ETS 321.72 ZAE 126.11 ETE 82.40 ZAC 90.53 ETC 154.82 CLP -43.66

PLANETOCENTRIC CONIC

C3 23.743 VHL 4.873 DLA -20.46 RAL 28.18 RAD 6568.0 VEL 12.047 PTH 2.15 VHP 6.411 DPA 55.15 RAP 343.01 ECC 1.3907
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 12 19 45 1558.47 -.12 3.17 252.22 118.32 12 45 44 958.5 3.67 356.53
 90.00 18 28 8 5597.18 28.19 261.97 260.25 92.80 20 1 25 4997.2 28.28 253.31
 100.00 13 27 43 1339.14 -1.59 346.23 251.41 119.85 13 50 2 739.1 2.40 339.71
 100.00 20 2 52 5291.74 29.87 239.57 260.32 91.30 21 31 3 4691.7 29.73 230.77
 110.00 14 7 27 1214.62 -5.18 334.55 249.17 123.84 14 27 42 614.6 -.70 328.33
 110.00 21 39 37 4989.03 34.10 216.53 260.27 87.42 23 2 46 4389.0 33.37 207.36

DIFFERENTIAL CORRECTIONS

TDE -.7386 TRA-1.8458 TC3 -.0266 BAU .2586 SGT 2474.1 SGR 3962.4 SG3 502.6 ST 1112.3 SR 1340.4 SS 1146.2
 RDE -.5912 RRA-3.0432 RC3 .8143 FAU .03358 RRT .9620 RRF -.9993 RTF .9667 CRT .9390 CRS .9962 CST .9655
 FDE 1.0411 FRA 4.4303 FC3 -1.2244 BSP 14993 SGB 4671.4 R23 -.0567 R13 -.9979 LSA 2062.9 MSA 503.2 SSA 3.8
 BDE .9461 BRA 3.5592 BC3 .8148 FSP -1599 SGI 4635.6 SG2 577.5 THA 58.46 ELI 1716.0 EL2 298.8 ALF 50.65

LAUNCH DATE NOV 18 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.826 GAL 6.08 AZL 92.72 HCA 191.50 SMA 130.01 ECC .17278 INC 2.7208 V1 30.133
 RP 108.53 LAP .54 LOP 247.21 VP 37.747 GAP -2.94 AZP 87.33 TAL 148.29 TAP 339.79 RCA 107.55 APO 152.47 V2 34.917
 RC 59.985 GL -17.60 GP 49.69 ZAL 40.41 ZAP 65.50 ETS 330.04 ZAE 134.16 ETE 85.64 ZAC 92.53 ETC 156.91 CLP -50.13

PLANETOCENTRIC CONIC

C3 18.878 VHL 4.345 DLA -8.95 RAL 23.96 RAD 6567.8 VEL 11.843 PTH 2.10 VHP 5.182 DPA 47.69 RAP 349.29 ECC 1.3107
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 15 54 1919.50 -11.49 23.60 243.12 116.06 10 47 53 1319.5 -7.89 16.77
 90.00 19 58 21 5125.97 23.03 228.11 247.03 76.31 21 23 47 4526.0 22.90 220.08
 100.00 11 32 52 1671.16 -12.52 4.81 242.59 117.37 12 0 43 1071.2 -8.76 358.04
 100.00 21 24 3 4849.54 26.15 207.46 246.71 74.97 22 44 53 4249.5 23.83 199.43
 110.00 12 31 10 1488.60 -15.24 349.39 241.02 120.97 12 55 59 888.6 -11.02 342.83
 110.00 22 42 14 4604.87 29.13 187.86 245.69 71.27 23 58 59 4004.9 26.30 179.82

DIFFERENTIAL CORRECTIONS

TDE -.5997 TRA-1.4519 TC3 -.0665 BAU .2597 SGT 2094.1 SGR 3821.5 SG3 741.2 ST 981.6 SR 1399.1 SS 1486.4
 RDE -.6718 RRA-2.7033 RC3 1.0269 FAU .05212 RRT .9551 RRF -.9993 RTF -.9575 CRT .9685 CRS .9971 CST .9846
 FDE 1.7381 FRA 5.9944 FC3-2.3900 BSP 13983 SGB 4357.7 R23 -.0571 R13 -.9977 LSA 2256.0 MSA 201.8 SSA 6.6
 BDE .9005 BRA 3.0685 BC3 1.0290 FSP -2327 SGI 4323.0 SG2 548.4 THA 61.88 ELI 1697.2 EL2 201.7 ALF 55.25

LAUNCH DATE NOV 18 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.846 GAL 6.02 AZL 91.40 HCA 194.67 SMA 130.15 ECC .17119 INC 1.4035 V1 30.133
 RP 108.57 LAP .36 LOP 250.39 VP 37.751 GAP -2.47 AZP 88.64 TAL 148.26 TAP 342.94 RCA 107.87 APO 152.43 V2 34.906
 RC 61.981 GL -9.41 GP 43.76 ZAL 37.73 ZAP 65.93 ETS 336.80 ZAE 139.87 ETE 89.12 ZAC 93.57 ETC 158.51 CLP -55.62

DISTANCE 457.856

PLANETOCENTRIC CONIC

C3 17.210 VHL 4.149 DLA -1.27 RAL 21.10 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 4.500 DPA 41.94 RAP 352.32 ECC 1.2832
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 6 7 2139.81 -17.69 36.80 239.75 112.48 9 41 46 1539.8 -14.49 29.59
 90.00 20 45 20 4862.49 19.66 210.68 240.29 69.20 22 6 23 4262.5 16.66 203.29
 100.00 10 26 52 1879.33 -18.67 17.21 239.31 113.78 10 58 11 1279.3 -15.29 10.04
 100.00 22 7 16 4598.21 20.65 190.83 239.87 67.90 23 23 54 3998.2 17.48 183.48
 110.00 11 33 45 1669.94 -21.28 359.98 237.97 117.40 12 1 35 1069.9 -17.44 352.96
 110.00 23 16 52 4380.37 23.31 173.03 238.60 64.26 24 29 52 3780.4 19.65 165.79

DIFFERENTIAL CORRECTIONS

TDE -.5018 TRA -1.1402 TC3 -.1447 BAU .2520
 RDE -.7268 RRA -2.4560 RC3 1.0855 FAU .06832
 FDE 2.5513 FRA 7.4048 FC3 -3.4369 BSP 13016
 BDE .8832 BRA 2.7078 BC3 1.0951 FSP -3025

MID-COURSE EXECUTION ACCURACY

SGT 1725.1 SGR 3651.1 SG3 966.7
 RRT .9418 RRF -.9991 RTF -.9436
 SGB 4038.1 R23 -.0519 R13 -.9977
 SG1 4003.3 SG2 528.8 THA 65.56

ORBIT DETERMINATION ACCURACY

ST 838.8 SR 1429.9 SS 1817.1
 CRT .9810 CRS .9971 CST .9928
 LSA 2455.4 MSA 144.3 SSA 10.0
 EL1 1651.7 EL2 140.8 ALF 59.84

LAUNCH DATE NOV 18 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.863 GAL 5.97 AZL 90.55 HCA 197.85 SMA 130.27 ECC .16988 INC .5479 V1 30.133
 RP 108.60 LAP .17 LOP 253.57 VP 37.753 GAP -2.01 AZP 89.48 TAL 148.22 TAP 346.07 RCA 108.14 APO 152.40 V2 34.894
 RC 64.032 GL -3.73 GP 39.31 ZAL 36.75 ZAP 67.94 ETS 342.48 ZAE 143.98 ETE 93.64 ZAC 93.79 ETC 159.99 CLP -60.97

DISTANCE 464.310

PLANETOCENTRIC CONIC

C3 16.556 VHL 4.069 DLA 4.04 RAL 19.07 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 4.062 DPA 37.32 RAP 353.63 ECC 1.2725
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 18 34 2295.68 -21.45 46.68 238.36 108.94 8 56 50 1695.7 -18.67 39.12
 90.00 21 16 41 4688.80 15.12 199.96 236.70 65.77 22 34 50 4088.8 11.72 192.93
 100.00 9 41 48 2027.21 -22.45 26.56 237.98 110.27 10 15 36 1427.2 -19.49 19.01
 100.00 22 36 8 4432.51 16.08 180.65 236.24 64.46 23 50 1 3832.5 12.51 173.68
 110.00 10 54 24 1800.03 -25.13 8.12 236.79 113.97 11 24 24 1200.0 -21.68 .67
 110.00 23 40 3 4232.45 18.65 164.08 234.84 60.82 24 50 35 3632.4 14.62 157.28

DIFFERENTIAL CORRECTIONS

TDE -.3988 TRA -.8439 TC3 -.2514 BAU .2450
 RDE -.7594 RRA -2.2677 RC3 1.0781 FAU .08234
 FDE 3.4040 FRA 8.6622 FC3 -4.3056 BSP 12028
 BDE .8578 BRA 2.4197 BC3 1.1070 FSP -3671

MID-COURSE EXECUTION ACCURACY

SGT 1332.9 SGR 3487.3 SG3 1174.5
 RRT .9111 RRF -.9988 RTF -.9131
 SGB 3733.3 R23 -.0423 R13 -.9979
 SG1 3697.2 SG2 518.2 THA 70.40

ORBIT DETERMINATION ACCURACY

ST 665.7 SR 1437.5 SS 2118.9
 CRT .9860 CRS .9969 CST .9959
 LSA 2643.0 MSA 118.2 SSA 13.0
 EL1 1581.0 EL2 100.8 ALF 65.35

LAUNCH DATE NOV 18 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.877 GAL 5.94 AZL 89.94 HCA 201.02 SMA 130.37 ECC .16885 INC .0469 V1 30.133
 RP 108.64 LAP -.02 LOP 256.74 VP 37.753 GAP -1.56 AZP 90.05 TAL 148.16 TAP 349.18 RCA 108.36 APO 152.38 V2 34.883
 RC 66.131 GL .39 GP 35.82 ZAL 36.52 ZAP 71.07 ETS 347.30 ZAE 146.90 ETE 99.42 ZAC 93.36 ETC 161.39 CLP -66.42

DISTANCE 470.744

PLANETOCENTRIC CONIC

C3 16.310 VHL 4.039 DLA 7.88 RAL 17.57 RAD 6567.7 VEL 11.734 PTH 2.07 VHP 3.758 DPA 33.40 RAP 353.89 ECC 1.2684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 43 14 2413.68 -23.85 54.50 237.81 105.74 8 23 28 1813.7 -21.46 46.64
 90.00 21 40 4 4563.97 11.50 192.58 234.65 63.95 22 56 8 3964.0 7.91 185.74
 100.00 9 8 23 2139.07 -24.90 33.97 237.47 107.10 9 44 2 1539.1 -22.32 26.12
 100.00 22 57 36 4313.81 12.48 173.68 234.15 62.61 24 9 30 3713.8 8.71 166.92
 110.00 10 25 18 1898.35 -27.69 14.62 236.40 110.90 10 56 56 1298.4 -24.59 6.81
 110.00 0 1 6 4127.29 15.05 158.04 232.67 58.94 1 9 54 3527.3 10.83 151.49

DIFFERENTIAL CORRECTIONS

TDE -.2755 TRA -.5409 TC3 -.3755 BAU .2422
 RDE -.7730 RRA -2.1127 RC3 1.0456 FAU .09453
 FDE 4.2457 FRA 9.7631 FC3 -5.0177 BSP 11090
 BDE .8206 BRA 2.1809 BC3 1.1110 FSP -4266

MID-COURSE EXECUTION ACCURACY

SGT 919.2 SGR 3327.5 SG3 1361.3
 RRT .8228 RRF -.9984 RTF -.8257
 SGB 3452.1 R23 -.0272 R13 -.9980
 SG1 3414.4 SG2 509.1 THA 76.90

ORBIT DETERMINATION ACCURACY

ST 454.8 SR 1423.8 SS 2383.6
 CRT .9873 CRS .9965 CST .9968
 LSA 2811.3 MSA 110.1 SSA 14.7
 EL1 1493.1 EL2 68.9 ALF 72.46

LAUNCH DATE NOV 18 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.889 GAL 5.92 AZL 89.49 HCA 204.19 SMA 130.45 ECC .16808 INC .5086 V1 30.133
 RP 108.67 LAP -.21 LOP 259.91 VP 37.752 GAP -1.11 AZP 90.46 TAL 148.08 TAP 352.27 RCA 108.53 APO 152.38 V2 34.873
 RC 68.274 GL 3.50 GP 32.97 ZAL 36.60 ZAP 74.99 ETS 351.42 ZAE 148.82 ETE 106.42 ZAC 92.42 ETC 162.73 CLP -72.02

DISTANCE 477.158

PLANETOCENTRIC CONIC

C3 16.263 VHL 4.033 DLA 10.78 RAL 16.43 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 3.538 DPA 29.93 RAP 353.47 ECC 1.2677
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 15 31 2507.38 -25.43 60.91 237.66 102.90 7 57 18 1907.4 -23.40 52.83
 90.00 21 58 41 4468.95 8.61 187.10 233.45 62.92 23 13 10 3869.0 4.91 180.37
 100.00 8 42 15 2227.65 -26.53 40.04 237.37 104.30 9 19 22 1627.7 -24.30 31.95
 100.00 23 14 38 4223.91 9.61 168.55 232.91 61.56 24 25 2 3623.9 5.74 161.90
 110.00 10 2 42 1975.87 -29.45 19.96 236.40 108.19 10 35 38 1375.9 -26.69 11.86
 110.00 0 14 36 4048.46 12.24 153.67 231.35 57.83 1 22 4 3448.5 7.91 147.26

DIFFERENTIAL CORRECTIONS

TDE -.1296 TRA -.2270 TC3 -.5160 BAU .2454
 RDE -.7690 RRA -1.9738 RC3 1.0036 FAU .10515
 FDE 5.0322 FRA 10.6877 FC3 -5.5973 BSP 10249
 BDE .7799 BRA 1.9868 BC3 1.1285 FSP -4814

MID-COURSE EXECUTION ACCURACY

SGT 561.2 SGR 3162.0 SG3 1522.3
 RRT .4517 RRF -.9979 RTF -.4563
 SGB 3211.4 R23 -.0066 R13 -.9979
 SG1 3172.4 SG2 499.0 THA 85.30

ORBIT DETERMINATION ACCURACY

ST 209.1 SR 1388.5 SS 2605.6
 CRT .9820 CRS .9960 CST .9936
 LSA 2957.7 MSA 111.7 SSA 15.1
 EL1 1403.6 EL2 39.0 ALF 81.58

LAUNCH DATE NOV 18 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.898 GAL 5.91 AZL 89.14 MCA 207.37 SMA 130.52 ECC .16757 INC .8608 VI 30.133
 RP 108.70 LAP -.40 LOP 263.08 VP 37.750 GAP -.67 AZP 90.76 TAL 147.98 TAP 355.34 RCA 108.65 APO 152.39 V2 34.862
 RC 70.456 GL 5.92 GP 30.52 ZAL 36.79 ZAP 79.49 ETS 354.96 ZAE 149.81 ETE 114.35 ZAC 91.10 ETC 163.99 CLP -77.77

PLANETOCENTRIC CONIC

C3 16.332 VHL 4.041 OLA 13.05 RAL 15.55 RAD 6567.7 VEL 11.735 PTH 2.07 VHP 3.380 DPA 26.74 RAP 352.58 ECC 1.2688
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 52 58 2584.57 -26.49 66.31 237.74 100.39 7 36 2 1984.6 -24.79 58.06
 90.00 22 14 13 4393.68 6.25 182.83 232.75 62.33 23 27 27 3793.7 2.50 176.16
 100.00 8 21 5 2300.38 -27.85 45.15 237.48 101.84 8 59 25 1700.4 -25.74 36.87
 100.00 23 28 47 4153.10 7.29 164.57 232.19 60.93 24 38 0 3553.1 3.36 157.99
 110.00 9 44 35 2039.12 -30.71 24.45 236.62 105.80 10 18 34 1439.1 -28.24 16.13
 110.00 0 25 43 3987.13 10.00 150.34 230.55 57.14 1 32 10 3387.1 5.60 144.01

DIFFERENTIAL CORRECTIONS

TDE .0380 TRA .0972 TC3 -.6695 BAU .2541
 RDE -.7510 RRA-1.8433 RC3 .9520 FAU .11360
 FDE 5.7389 FRA11.4237 FC3-6.0220 BSP 9532
 BDE .7520 BRA 1.8459 BC3 1.1639 FSP -5282

MID-COURSE EXECUTION ACCURACY

SGT 561.9 SGR 2987.0 SG3 1653.6
 RRT -.5084 RRF -.9972 RTF .5044
 SGB 3039.4 R23 .0187 R13 -.9970
 SG1 3001.0 SG2 481.6 TMA 95.61

ORBIT DETERMINATION ACCURACY

ST 70.5 SR 1334.9 SS 2787.7
 CRT -.9768 CRS .9953 CST -.9698
 LSA 3089.4 MSA 117.3 SSA 15.0
 EL1 1336.7 EL2 15.1 ALF 92.95

LAUNCH DATE NOV 18 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.905 GAL 5.92 AZL 88.85 MCA 210.54 SMA 130.57 ECC .16732 INC 1.1451 VI 30.133
 RP 108.73 LAP -.58 LOP 266.25 VP 37.746 GAP -.23 AZP 90.99 TAL 147.85 TAP 358.39 RCA 108.72 APO 152.42 V2 34.853
 RC 72.672 GL 7.85 GP 28.34 ZAL 37.01 ZAP 84.39 ETS 358.01 ZAE 149.92 ETE 122.71 ZAC 89.49 ETC 165.12 CLP -83.62

PLANETOCENTRIC CONIC

C3 16.480 VHL 4.060 OLA 14.86 RAL 14.87 RAD 6567.7 VEL 11.742 PTH 2.07 VHP 3.271 DPA 23.74 RAP 351.39 ECC 1.2712
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 9 2650.03 -27.21 70.97 237.95 98.16 7 18 19 2050.0 -25.80 62.59
 90.00 22 27 36 4332.35 4.30 179.37 232.40 61.98 23 39 48 3732.3 .52 172.73
 100.00 8 3 31 2361.82 -28.43 49.55 237.73 99.65 8 42 53 1761.8 -26.81 41.13
 100.00 23 40 55 4095.79 5.38 161.39 231.80 60.55 24 49 11 3495.8 1.42 154.84
 110.00 9 29 41 2092.20 -31.63 28.31 236.97 103.68 10 4 34 1492.2 -29.43 19.80
 110.00 0 35 10 3938.17 8.18 147.72 230.09 56.69 1 40 48 3338.2 3.74 141.44

DIFFERENTIAL CORRECTIONS

TDE .2237 TRA .4276 TC3 -.8312 BAU .2692
 RDE -.7186 RRA-1.7142 RC3 .8955 FAU .11999
 FDE 6.3249 FRA11.9387 FC3-6.3032 BSP 9058
 BDE .7526 BRA 1.7667 BC3 1.2218 FSP -5667

MID-COURSE EXECUTION ACCURACY

SGT 972.1 SGR 2796.9 SG3 1749.0
 RRT -.8731 RRF -.9963 RTF .8719
 SGB 2961.0 R23 .0439 R13 -.9954
 SG1 2926.1 SG2 453.1 TMA 107.31

ORBIT DETERMINATION ACCURACY

ST 367.7 SR 1262.1 SS 2924.6
 CRT -.9941 CRS .9942 CST -.9992
 LSA 3204.0 MSA 124.3 SSA 14.6
 EL1 1314.1 EL2 38.3 ALF 106.17

LAUNCH DATE NOV 18 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.910 GAL 5.95 AZL 88.62 MCA 213.71 SMA 130.61 ECC .16733 INC 1.3801 VI 30.133
 RP 108.76 LAP -.77 LOP 269.42 VP 37.741 GAP .20 AZP 91.15 TAL 147.69 TAP 1.40 RCA 108.75 APO 152.46 V2 34.844
 RC 74.919 GL 9.42 GP 26.35 ZAL 37.21 ZAP 89.54 ETS .64 ZAE 149.22 ETE 130.93 ZAC 87.71 ETC 166.11 CLP -89.49

PLANETOCENTRIC CONIC

C3 16.692 VHL 4.086 OLA 16.35 RAL 14.35 RAD 6567.7 VEL 11.751 PTH 2.07 VHP 3.204 DPA 20.89 RAP 350.03 ECC 1.2747
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 11 2706.85 -27.69 75.06 238.27 96.17 7 3 18 2106.9 -26.55 66.58
 90.00 22 39 24 4281.38 2.66 176.52 232.29 61.80 23 50 46 3681.4 -1.13 169.89
 100.00 7 48 42 2414.93 -28.98 53.41 238.09 97.69 8 28 57 1814.9 -27.61 44.87
 100.00 23 51 34 4048.54 3.80 158.78 231.67 60.33 24 59 3 3448.5 -1.18 152.25
 110.00 9 17 16 2137.81 -32.32 31.69 237.43 101.79 9 52 54 1537.8 -30.36 23.03
 110.00 0 43 25 3898.42 6.68 145.61 229.88 56.40 1 48 24 3298.4 2.22 139.36

DIFFERENTIAL CORRECTIONS

TDE .4234 TRA .7590 TC3 -.9951 BAU .2894
 RDE -.6742 RRA-1.5857 RC3 .8319 FAU .12366
 FDE 6.7709 FRA12.2277 FC3-6.4134 BSP 8893
 BDE .7961 BRA 1.7580 BC3 1.2970 FSP -5934

MID-COURSE EXECUTION ACCURACY

SGT 1498.0 SGR 2593.7 SG3 1806.1
 RRT -.9484 RRF -.9952 RTF .9491
 SGB 2995.2 R23 .0614 R13 -.9934
 SG1 2966.3 SG2 415.4 TMA 119.34

ORBIT DETERMINATION ACCURACY

ST 681.1 SR 1173.8 SS 3018.9
 CRT -.9923 CRS .9928 CST -.9998
 LSA 3307.3 MSA 131.7 SSA 14.3
 EL1 1355.1 EL2 73.3 ALF 120.03

LAUNCH DATE NOV 18 1968

FLIGHT TIME 188.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.913 GAL 5.99 AZL 88.42 MCA 216.88 SMA 130.63 ECC .16758 INC 1.5790 VI 30.133
 RP 108.78 LAP -.95 LOP 272.59 VP 37.736 GAP .63 AZP 91.26 TAL 147.51 TAP 4.38 RCA 108.74 APO 152.52 V2 34.835
 RC 77.194 GL 10.71 GP 24.48 ZAL 37.37 ZAP 94.81 ETS 2.89 ZAE 147.86 ETE 138.51 ZAC 85.86 ETC 166.93 CLP -95.29

PLANETOCENTRIC CONIC

C3 16.961 VHL 4.118 OLA 17.59 RAL 13.96 RAD 6567.7 VEL 11.762 PTH 2.08 VHP 3.173 DPA 18.17 RAP 348.62 ECC 1.2791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 27 2757.09 -28.01 78.70 238.68 94.37 6 50 24 2157.1 -27.11 70.15
 90.00 22 50 1 4238.48 1.28 174.13 232.38 61.71 24 0 40 3638.5 -2.51 167.50
 100.00 7 36 3 2461.70 -29.35 56.83 238.54 95.92 8 17 5 1861.7 -28.22 48.21
 100.00 0 5 2 4009.10 2.46 156.61 231.72 60.20 1 11 51 3409.1 -1.52 150.09
 110.00 9 6 48 2177.75 -32.84 34.70 237.97 100.09 9 43 6 1577.7 -31.10 25.91
 110.00 0 50 46 3865.83 5.45 143.89 229.87 56.20 1 55 12 3265.8 .98 137.66

DIFFERENTIAL CORRECTIONS

TDE .6317 TRA 1.0862 TC3-1.1550 BAU .3137
 RDE -.6208 RRA-1.4591 RC3 .7615 FAU .12423
 FDE 7.0706 FRA12.2992 FC3-6.3410 BSP 9080
 BDE .8857 BRA 1.8190 BC3 1.3834 FSP -6062

MID-COURSE EXECUTION ACCURACY

SGT 2047.0 SGR 2382.1 SG3 1825.2
 RRT -.9703 RRF -.9936 RTF .9729
 SGB 3140.8 R23 .0665 R13 -.9920
 SG1 3118.0 SG2 378.1 TMA 130.54

ORBIT DETERMINATION ACCURACY

ST 999.7 SR 1074.5 SS 3075.0
 CRT -.9900 CRS .9908 CST -.9999
 LSA 3404.4 MSA 138.9 SSA 13.9
 EL1 1464.0 EL2 103.3 ALF 132.91

LAUNCH DATE NOV 18 1968

FLIGHT TIME 190.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.915 GAL 6.04 AZL 88.25 MCA 220.04 SMA 130.64 ECC .16809 INC 1.7506 V1 30.133
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.730 GAP 1.05 AZP 91.34 TAL 147.29 TAP 7.34 RCA 108.68 APO 152.60 V2 34.827
 RC 79.493 GL 11.77 GP 22.71 ZAL 37.48 ZAP 100.10 ETS 4.80 ZAE 146.00 ETE 145.14 ZAC 84.05 ETC 167.57 CLP-100.96

PLANETOCENTRIC CONIC

C3 17.284 VHL 4.157 DLA 18.64 RAL 13.68 RAD 6567.7 VEL 11.776 PTH 2.08 VHP 3.176 OPA 15.60 RAP 347.24 ECC 1.2844
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 52 33 2802.19 -28.20 81.98 239.17 92.73 6 39 16 2202.2 -27.52 73.38
 90.00 22 59 42 4202.09 .11 172.10 232.62 61.68 24 9 44 3602.1 -3.68 165.46
 100.00 7 25 10 2503.52 -29.61 59.92 239.07 94.32 8 6 54 1903.5 -28.69 51.23
 100.00 0 13 42 3975.99 1.34 154.79 231.94 60.13 1 19 58 3376.0 -2.64 148.27
 110.00 8 57 57 2213.28 -33.23 37.39 238.60 98.53 9 34 50 1613.3 -31.69 28.50
 110.00 0 57 25 3839.00 4.43 142.47 230.01 56.07 2 1 24 3239.0 -.05 136.26

DIFFERENTIAL CORRECTIONS

TDE .8425 TRA 1.4027 TC3-1.3056 BAU .3416
 RDE -.5583 RRA-1.3337 RC3 .6931 FAU .12288
 FDE 7.1982 FRA12.1498 FC3-6.1553 BSP 9660
 BOE 1.0107 BRA 1.9355 BC3 1.4781 FSP -6096

MID-COURSE EXECUTION ACCURACY

SGT 2586.2 SGR 2164.9 SG3 1805.9
 RRT -.9781 RRF -.9914 RTF .9828
 SGB 3372.7 R23 .0597 R13 -.9916
 SG1 3354.8 SG2 347.4 THA 140.18

ORBIT DETERMINATION ACCURACY

ST 1312.9 SR 964.9 SS 3086.7
 CRT -.9868 CRS .9877 CST -.9999
 LSA 3487.2 MSA 145.8 SSA 13.6
 EL1 1624.4 EL2 126.2 ALF 143.80

LAUNCH DATE NOV 18 1968

FLIGHT TIME 192.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.914 GAL 6.11 AZL 88.10 MCA 223.21 SMA 130.64 ECC .16884 INC 1.9009 V1 30.133
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.722 GAP 1.48 AZP 91.39 TAL 147.05 TAP 10.26 RCA 108.58 APO 152.69 V2 34.820
 RC 81.813 GL 12.65 GP 21.04 ZAL 37.55 ZAP 105.29 ETS 6.42 ZAE 143.80 ETE 150.75 ZAC 82.34 ETC 168.03 CLP-106.41

PLANETOCENTRIC CONIC

C3 17.661 VHL 4.203 DLA 19.53 RAL 13.50 RAD 6567.7 VEL 11.792 PTH 2.08 VHP 3.208 OPA 13.20 RAP 345.97 ECC 1.2907
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 13 2843.15 -28.29 84.98 239.75 91.23 6 29 36 2243.2 -27.82 76.34
 90.00 23 8 36 4171.15 -.89 170.37 233.00 61.70 24 18 7 3571.1 -4.67 163.73
 100.00 7 15 48 2541.39 -29.77 62.72 239.69 92.85 7 58 9 1941.4 -29.06 53.99
 100.00 0 21 38 3948.15 .40 153.26 232.28 60.11 1 27 27 3348.1 -3.58 146.74
 110.00 8 50 25 2245.34 -33.52 39.85 239.30 97.11 9 27 51 1645.3 -32.18 30.88
 110.00 1 3 30 3816.96 3.60 141.32 230.29 55.98 2 7 7 3217.0 -.89 135.11

DIFFERENTIAL CORRECTIONS

TDE 1.0513 TRA 1.7053 TC3-1.4426 BAU .3712
 RDE -.4913 RRA-1.2133 RC3 .6248 FAU .11929
 FDE 7.1797 FRA11.8242 FC3-5.8474 BSP 10522
 BOE 1.1604 BRA 2.0929 BC3 1.5721 FSP -6023

MID-COURSE EXECUTION ACCURACY

SGT 3099.9 SGR 1950.5 SG3 1754.8
 RRT -.9801 RRF -.9884 RTF .9876
 SGB 3662.5 R23 .0472 R13 -.9918
 SG1 3647.7 SG2 329.2 THA 148.05

ORBIT DETERMINATION ACCURACY

ST 1613.4 SR 852.1 SS 3064.0
 CRT -.9821 CRS .9832 CST -.9999
 LSA 3562.8 MSA 152.4 SSA 13.3
 EL1 1819.0 EL2 142.4 ALF 152.40

LAUNCH DATE NOV 18 1968

FLIGHT TIME 194.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.912 GAL 6.19 AZL 87.97 MCA 226.38 SMA 130.62 ECC .16983 INC 2.0343 V1 30.133
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.715 GAP 1.90 AZP 91.40 TAL 146.77 TAP 13.15 RCA 108.44 APO 152.81 V2 34.813
 RC 84.153 GL 13.39 GP 19.46 ZAL 37.55 ZAP 110.31 ETS 7.77 ZAE 141.42 ETE 155.38 ZAC 80.82 ETC 168.31 CLP-111.60

PLANETOCENTRIC CONIC

C3 18.096 VHL 4.254 DLA 20.29 RAL 13.41 RAD 6567.7 VEL 11.810 PTH 2.09 VHP 3.269 OPA 10.98 RAP 344.85 ECC 1.2978
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 13 2880.74 -28.32 87.73 240.40 89.86 6 21 14 2280.7 -28.04 79.07
 90.00 23 16 52 4144.88 -1.74 168.91 233.50 61.73 24 25 57 3544.9 -5.51 162.25
 100.00 7 7 43 2576.02 -29.86 65.29 240.37 91.50 7 50 39 1976.0 -29.33 56.52
 100.00 0 28 59 3924.83 -.39 151.98 232.75 60.11 1 34 24 3324.8 -4.37 145.45
 110.00 8 44 4 2274.59 -33.75 42.10 240.08 95.79 9 21 58 1674.6 -32.58 33.06
 110.00 1 9 8 3799.03 2.91 140.38 230.69 55.93 2 12 27 3199.0 -1.58 134.18

DIFFERENTIAL CORRECTIONS

TDE 1.2552 TRA 1.9933 TC3-1.5611 BAU .4011
 RDE -.4230 RRA-1.1011 RC3 .5583 FAU .11368
 FDE 7.0431 FRA11.3729 FC3-5.4386 BSP 11543
 BOE 1.3246 BRA 2.2772 BC3 1.6579 FSP -5846

MID-COURSE EXECUTION ACCURACY

SGT 3579.8 SGR 1746.4 SG3 1680.0
 RRT -.9788 RRF -.9842 RTF .9902
 SGB 3983.1 R23 .0344 R13 -.9923
 SG1 3970.1 SG2 322.3 THA 154.29

ORBIT DETERMINATION ACCURACY

ST 1896.7 SR 741.4 SS 3015.4
 CRT -.9749 CRS .9764 CST -.9999
 LSA 3635.2 MSA 158.6 SSA 13.0
 EL1 2030.6 EL2 154.1 ALF 159.01

LAUNCH DATE NOV 18 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.909 GAL 6.29 AZL 87.85 MCA 229.54 SMA 130.60 ECC .17108 INC 2.1544 V1 30.133
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.707 GAP 2.32 AZP 91.40 TAL 146.47 TAP 16.01 RCA 108.26 APO 152.94 V2 34.807
 RC 86.508 GL 14.00 GP 17.99 ZAL 37.51 ZAP 115.11 ETS 8.90 ZAE 138.99 ETE 159.13 ZAC 79.52 ETC 168.45 CLP-116.49

PLANETOCENTRIC CONIC

C3 18.590 VHL 4.312 DLA 20.95 RAL 13.40 RAD 6567.8 VEL 11.831 PTH 2.10 VHP 3.353 OPA 8.98 RAP 343.93 ECC 1.3059
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 25 24 2915.50 -28.28 90.27 241.12 88.58 6 13 59 2315.5 -28.18 81.60
 90.00 23 24 35 4122.73 -2.45 167.67 234.11 61.78 24 33 18 3522.7 -6.21 161.00
 100.00 7 0 46 2607.96 -29.89 67.66 241.14 90.25 7 44 14 2008.0 -29.54 58.88
 100.00 0 35 50 3905.50 -1.05 150.92 233.32 60.12 1 40 55 3305.5 -5.02 144.38
 110.00 8 38 43 2301.55 -33.91 44.19 240.94 94.57 9 17 5 1701.5 -32.91 35.10
 110.00 1 14 23 3784.68 2.37 139.63 231.19 55.89 2 17 27 3184.7 -2.13 133.43

DIFFERENTIAL CORRECTIONS

TDE 1.4510 TRA 2.2631 TC3-1.6605 BAU .4307
 RDE -.3552 RRA -.9980 RC3 .4964 FAU .10683
 FDE 6.8103 FRA10.8319 FC3-4.9752 BSP 12655
 BOE 1.4938 BRA 2.4752 BC3 1.7331 FSP -5601

MID-COURSE EXECUTION ACCURACY

SGT 4019.4 SGR 1556.4 SG3 1588.1
 RRT -.9750 RRF -.9785 RTF .9917
 SGB 4310.3 R23 .0238 R13 -.9928
 SG1 4298.1 SG2 323.3 THA 159.19

ORBIT DETERMINATION ACCURACY

ST 2157.4 SR 635.9 SS 2944.8
 CRT -.9639 CRS .9659 CST -.9999
 LSA 3701.8 MSA 164.5 SSA 12.9
 EL1 2243.3 EL2 162.8 ALF 164.05

LAUNCH DATE NOV 18 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.904 GAL 6.41 AZL 87.74 MCA 232.71 SMA 130.56 ECC .17258 INC 2.2637 V1 30.133
 RP 108.89 LAP -1.80 LOP 288.40 VP 37.698 GAP 2.74 AZP 91.37 TAL 146.13 TAP 18.83 RCA 108.03 APO 153.10 V2 34.802
 RC 88.877 GL 14.50 GP 16.62 ZAL 37.41 ZAP 119.64 ETS 9.84 ZAE 136.61 ETE 162.17 ZAC 78.47 ETC 168.47 CLP-121.07

PLANETOCENTRIC CONIC

C3 19.148 VHL 4.376 DLA 21.51 RAL 13.46 RAD 6567.8 VEL 11.854 PTH 2.10 VHP 3.461 DPA 7.19 RAP 343.22 ECC 1.3151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 39 2947.85 -28.21 92.63 241.93 87.40 6 7 47 2347.8 -28.27 83.97
 90.00 23 31 49 4104.30 -3.05 166.64 234.81 61.83 24 40 13 3504.3 -6.79 159.96
 100.00 6 54 52 2637.64 -29.88 69.87 241.99 89.09 7 38 49 2037.6 -29.69 61.07
 100.00 0 42 14 3889.74 -1.58 150.06 234.00 60.15 1 47 3 3289.7 -5.54 143.51
 110.00 8 34 17 2326.61 -34.03 46.14 241.88 93.42 9 13 3 1726.6 -33.18 37.00
 110.00 1 19 18 3773.53 1.94 139.05 231.80 55.87 2 22 12 3173.5 -2.55 132.85

DIFFERENTIAL CORRECTIONS

TDE 1.6398 TRA 2.5242 TC3-1.7357 BAU .4582
 ROE -.2907 RRA -.9058 RC3 .4379 FAU .09862
 FDE 6.5233 FRA10.2526 FC3-4.4590 BSP 13737
 BOE 1.6654 BRA 2.6819 BC3 1.7901 FSP -5281

MID-COURSE EXECUTION ACCURACY

SGT 4420.3 SGR 1384.6 SG3 1487.5
 RRT -.9687 RRF -.9709 RTF .9925
 SGB 4632.1 R23 .0164 R13 -.9931
 SGI 4620.4 SG2 328.9 THA 163.03

ORBIT DETERMINATION ACCURACY

ST 2397.5 SR 539.7 SS 2863.5
 CRT -.9470 CRS .9496 CST -.9999
 LSA 3769.6 MSA 170.0 SSA 12.8
 EL1 2451.7 EL2 169.5 ALF 167.91

LAUNCH DATE NOV 18 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.898 GAL 6.54 AZL 87.64 MCA 235.87 SMA 130.52 ECC .17433 INC 2.3641 V1 30.133
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.689 GAP 3.16 AZP 91.33 TAL 145.76 TAP 21.63 RCA 107.77 APO 153.27 V2 34.797
 RC 91.256 GL 14.90 GP 15.36 ZAL 37.26 ZAP 123.90 ETS 10.63 ZAE 134.33 ETE 164.61 ZAC 77.69 ETC 168.41 CLP-125.34

PLANETOCENTRIC CONIC

C3 19.773 VHL 4.447 DLA 22.01 RAL 13.59 RAD 6567.8 VEL 11.881 PTH 2.11 VHP 3.589 DPA 5.62 RAP 342.73 ECC 1.3254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 12 53 2978.10 -28.09 94.84 242.82 86.30 6 2 31 2378.1 -28.31 86.18
 90.00 23 38 36 4089.28 -3.53 165.80 235.61 61.89 24 46 45 3489.3 -7.26 159.11
 100.00 6 49 53 2665.37 -29.83 71.93 242.92 88.01 7 34 18 2065.4 -29.79 63.12
 100.00 0 48 13 3877.25 -2.01 149.37 234.76 60.17 1 52 51 3277.2 -5.96 142.82
 110.00 8 30 39 2350.09 -34.11 47.97 242.90 92.34 9 9 49 1750.1 -33.41 38.80
 110.00 1 23 56 3765.29 1.62 138.62 232.50 55.85 2 26 42 3165.3 -2.87 132.41

DIFFERENTIAL CORRECTIONS

TDE 1.8169 TRA 2.7681 TC3-1.7939 BAU .4852
 ROE -.2288 RRA -.8230 RC3 .3874 FAU .09056
 FDE 6.1854 FRA 9.6461 FC3-3.9649 BSP 14836
 BOE 1.8313 BRA 2.8879 BC3 1.8353 FSP -4958

MID-COURSE EXECUTION ACCURACY

SGT 4777.6 SGR 1230.4 SG3 1381.5
 RRT -.9595 RRF -.9606 RTF .9930
 SGB 4933.5 R23 .0110 R13 -.9933
 SGI 4922.0 SG2 336.6 THA 166.05

ORBIT DETERMINATION ACCURACY

ST 2610.5 SR 452.5 SS 2768.0
 CRT -.9199 CRS .9235 CST -.9999
 LSA 3827.6 MSA 175.2 SSA 12.7
 EL1 2643.7 EL2 175.2 ALF 170.90

LAUNCH DATE NOV 18 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.891 GAL 6.69 AZL 87.54 MCA 239.03 SMA 130.47 ECC .17635 INC 2.4572 V1 30.133
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.680 GAP 3.59 AZP 91.27 TAL 145.36 TAP 24.39 RCA 107.46 APO 153.47 V2 34.793
 RC 93.644 GL 15.22 GP 14.22 ZAL 37.07 ZAP 127.87 ETS 11.31 ZAE 132.19 ETE 166.58 ZAC 77.17 ETC 168.27 CLP-129.29

PLANETOCENTRIC CONIC

C3 20.473 VHL 4.525 DLA 22.43 RAL 13.78 RAD 6567.8 VEL 11.910 PTH 2.12 VHP 3.735 DPA 4.27 RAP 342.47 ECC 1.3369
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 8 2 3006.50 -27.95 96.90 243.78 85.27 5 58 8 2406.5 -28.31 88.26
 90.00 23 44 58 4077.45 -3.91 165.14 236.49 61.93 24 52 55 3477.4 -7.63 158.44
 100.00 6 45 45 2691.40 -29.75 73.86 243.92 86.99 7 30 37 2091.4 -29.85 65.06
 100.00 0 53 51 3867.78 -2.33 148.85 235.61 60.19 1 58 19 3267.8 -6.28 142.29
 110.00 8 27 46 2372.24 -34.16 49.70 244.00 91.32 9 7 18 1772.2 -33.60 40.50
 110.00 1 28 20 3759.71 1.41 138.33 233.28 55.84 2 30 59 3159.7 -3.08 132.12

DIFFERENTIAL CORRECTIONS

TDE 1.9853 TRA 3.0019 TC3-1.8320 BAU .5101
 ROE -.1712 RRA -.7503 RC3 .3424 FAU .08236
 FDE 5.8311 FRA 9.0494 FC3-3.4829 BSP 15870
 BOE 1.9927 BRA 3.0942 BC3 1.8637 FSP -4619

MID-COURSE EXECUTION ACCURACY

SGT 5097.0 SGR 1095.1 SG3 1276.1
 RRT -.9468 RRF -.9471 RTF .9932
 SGB 5213.3 R23 .0073 R13 -.9934
 SGI 5201.9 SG2 345.2 THA 168.45

ORBIT DETERMINATION ACCURACY

ST 2800.8 SR 377.0 SS 2668.0
 CRT -.8767 CRS .8816 CST -.9999
 LSA 3882.3 MSA 180.2 SSA 12.6
 EL1 2820.3 EL2 180.1 ALF 173.24

LAUNCH DATE NOV 18 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

RL 147.86 LAL .00 LOL 55.72 VL 27.882 GAL 6.85 AZL 87.46 MCA 242.19 SMA 130.41 ECC .17863 INC 2.5443 V1 30.133
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.670 GAP 4.02 AZP 91.19 TAL 144.93 TAP 27.12 RCA 107.11 APO 153.70 V2 34.789
 RC 96.038 GL 15.46 GP 13.18 ZAL 36.83 ZAP 131.56 ETS 11.90 ZAE 130.21 ETE 168.17 ZAC 76.91 ETC 168.11 CLP-132.95

PLANETOCENTRIC CONIC

C3 21.253 VHL 4.610 DLA 22.79 RAL 14.02 RAD 6567.9 VEL 11.943 PTH 2.13 VHP 3.898 DPA 3.12 RAP 342.42 ECC 1.3498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 1 3033.25 -27.79 98.84 244.83 84.31 5 54 34 2433.3 -28.28 90.21
 90.00 23 50 56 4068.63 -4.19 164.64 237.45 61.97 24 58 44 3468.6 -7.91 157.94
 100.00 6 42 26 2715.95 -29.65 75.68 245.01 86.04 7 27 42 2115.9 -29.89 66.88
 100.00 0 59 8 3861.17 -2.55 148.49 236.55 60.21 2 3 29 3261.2 -6.50 141.92
 110.00 8 25 34 2393.27 -34.18 51.34 245.18 90.35 9 5 27 1793.3 -33.76 42.12
 110.00 1 32 29 3756.61 1.29 138.17 234.15 55.84 2 35 6 3156.6 -3.20 131.96

DIFFERENTIAL CORRECTIONS

TDE 2.1449 TRA 3.2276 TC3-1.8514 BAU .5330
 ROE -.1176 RRA -.6865 RC3 .3028 FAU .07433
 FDE 5.4736 FRA 8.4768 FC3-3.0280 BSP 16838
 BOE 2.1482 BRA 3.2998 BC3 1.8760 FSP -4282

MID-COURSE EXECUTION ACCURACY

SGT 5380.8 SGR 977.6 SG3 1174.1
 RRT -.9302 RRF -.9296 RTF .9932
 SGB 5468.9 R23 .0047 R13 -.9933
 SGI 5457.5 SG2 353.9 THA 170.37

ORBIT DETERMINATION ACCURACY

ST 2968.7 SR 313.9 SS 2565.7
 CRT -.8076 CRS .8142 CST -.9999
 LSA 3932.0 MSA 184.8 SSA 12.6
 EL1 2979.5 EL2 184.4 ALF 175.10

LAUNCH DATE NOV 18 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC
 RL 147.86 LAL .00 LOL 55.72 VL 27.873 GAL 7.04 AZL 87.37 MCA 245.35 SMA 130.34 ECC .18119 INC 2.6265 V1 30.133
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.661 GAP 4.45 AZP 91.10 TAL 144.47 TAP 29.83 RCA 106.72 APO 153.95 V2 34.787
 RC 98.436 GL 15.64 GP 12.24 ZAL 36.54 ZAP 135.00 ETS 12.42 ZAE 128.40 ETE 169.46 ZAC 76.88 ETC 167.92 CLP-136.34

PLANETOCENTRIC CONIC
 C3 22.121 VHL 4.703 DLA 23.10 RAL 14.32 RAD 6567.9 VEL 11.979 PTH 2.13 VHP 4.077 DPA 2.17 RAP 342.58 ECC 1.3641
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 0 48 3058.51 -27.60 100.67 245.96 83.42 5 51 47 2458.5 -28.23 92.06
 90.00 0 0 27 4062.69 -4.38 164.31 238.50 62.00 1 8 9 3462.7 -8.09 157.60
 100.00 6 39 51 2739.18 -29.53 77.39 246.18 85.15 7 25 30 2139.2 -29.89 68.61
 100.00 1 4 5 3857.26 -2.68 148.27 237.56 60.22 2 8 23 3257.3 -6.63 141.71
 110.00 8 24 0 2413.34 -34.18 52.91 246.44 89.42 9 4 13 1813.3 -33.88 43.67
 110.00 1 36 26 3755.86 1.26 138.13 235.10 55.84 2 39 2 3155.9 -3.23 131.92

DIFFERENTIAL CORRECTIONS
 TOE 2.2977 TRA 3.4483 TC3-1.8531 BAU .5537
 RDE -.0682 RRA -.6307 RC3 .2681 FAU .06662
 FDE 5.1261 FRA 7.9389 FC3-2.6073 BSP 17723
 BDE 2.2987 BRA 3.5055 BC3 1.8723 FSP -3954

MID-COURSE EXECUTION ACCURACY
 SGT 5633.0 SGR 876.6 SG3 1077.6
 RRT -.9088 RRF -.9074 RTF .9931
 SGB 5700.8 R23 .0028 R13 -.9932
 SG1 5689.3 SG2 362.2 THA 171.92

ORBIT DETERMINATION ACCURACY
 ST 3116.8 SR 264.1 SS 2464.5
 CRT -.6999 CRS .7087 CST -.9999
 LSA 3977.7 MSA 189.1 SSA 12.6
 EL1 3122.3 EL2 188.3 ALF 176.59

LAUNCH DATE NOV 18 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC
 RL 147.86 LAL .00 LOL 55.72 VL 27.862 GAL 7.25 AZL 87.30 MCA 248.51 SMA 130.26 ECC .18404 INC 2.7046 V1 30.133
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.651 GAP 4.89 AZP 90.99 TAL 143.99 TAP 32.50 RCA 106.29 APO 154.24 V2 34.785
 RC 100.837 GL 15.75 GP 11.39 ZAL 36.22 ZAP 138.18 ETS 12.91 ZAE 126.75 ETE 170.52 ZAC 77.08 ETC 167.72 CLP-139.49

PLANETOCENTRIC CONIC
 C3 23.085 VHL 4.805 DLA 23.37 RAL 14.66 RAD 6567.9 VEL 12.019 PTH 2.15 VHP 4.271 DPA 1.39 RAP 342.92 ECC 1.3799
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 22 3082.40 -27.40 102.39 247.16 82.57 5 49 44 2482.4 -28.15 93.80
 90.00 0 5 39 4059.54 -4.48 164.13 239.61 62.01 1 13 19 3459.5 -8.19 157.42
 100.00 6 37 58 2761.24 -29.39 79.02 247.42 84.30 7 23 59 2161.2 -29.87 70.25
 100.00 1 8 44 3855.93 -2.73 148.20 238.64 60.22 2 13 0 3255.9 -6.67 141.63
 110.00 8 23 1 2432.61 -34.16 54.41 247.77 88.53 9 3 33 1832.6 -33.98 45.17
 110.00 1 40 11 3757.33 1.32 138.20 236.12 55.84 2 42 48 3157.3 -3.17 132.00

DIFFERENTIAL CORRECTIONS
 TOE 2.4466 TRA 3.6689 TC3-1.8347 BAU .5709
 RDE -.0227 RRA -.5823 RC3 .2368 FAU .05902
 FDE 4.8005 FRA 7.4463 FC3-2.2133 BSP 18468
 BDE 2.4467 BRA 3.7149 BC3 1.8499 FSP -3625

MID-COURSE EXECUTION ACCURACY
 SGT 5859.7 SGR 790.5 SG3 988.4
 RRT -.8821 RRF -.8800 RTF .9929
 SGB 5912.8 R23 .0013 R13 -.9929
 SG1 5901.2 SG2 369.7 THA 173.19

ORBIT DETERMINATION ACCURACY
 ST 3249.5 SR 228.7 SS 2368.3
 CRT -.5437 CRS .5548 CST -.9999
 LSA 4022.8 MSA 192.9 SSA 12.7
 EL1 3251.9 EL2 191.8 ALF 177.80

LAUNCH DATE NOV 18 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC
 RL 147.86 LAL .00 LOL 55.72 VL 27.851 GAL 7.47 AZL 87.22 MCA 251.67 SMA 130.18 ECC .18719 INC 2.7793 V1 30.133
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.642 GAP 5.34 AZP 90.87 TAL 143.48 TAP 35.15 RCA 105.81 APO 154.55 V2 34.784
 RC 103.240 GL 15.81 GP 10.63 ZAL 35.86 ZAP 141.14 ETS 13.38 ZAE 125.26 ETE 171.39 ZAC 77.47 ETC 167.54 CLP-142.40

PLANETOCENTRIC CONIC
 C3 24.157 VHL 4.915 DLA 23.59 RAL 15.05 RAD 6568.0 VEL 12.064 PTH 2.16 VHP 4.479 DPA .78 RAP 343.43 ECC 1.3976
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 38 3105.03 -27.19 104.01 248.45 81.79 5 48 23 2505.0 -28.05 95.45
 90.00 0 10 29 4059.09 -4.50 164.11 240.80 62.01 1 18 9 3459.1 -8.21 157.39
 100.00 6 36 45 2782.25 -29.24 80.56 248.75 83.50 7 23 7 2182.3 -29.83 71.81
 100.00 1 13 4 3857.10 -2.69 148.27 239.80 60.22 2 17 21 3257.1 -6.63 141.70
 110.00 8 22 34 2451.20 -34.11 55.86 249.19 87.67 9 3 25 1851.2 -34.06 46.62
 110.00 1 43 44 3760.92 1.46 138.39 237.21 55.84 2 46 25 3160.9 -3.03 132.19

DIFFERENTIAL CORRECTIONS
 TOE 2.5870 TRA 3.8860 TC3-1.8076 BAU .5877
 RDE .0200 RRA -.5394 RC3 .2104 FAU .05236
 FDE 4.4864 FRA 6.9874 FC3-1.8765 BSP 19213
 BDE 2.5871 BRA 3.9232 BC3 1.8198 FSP -3335

MID-COURSE EXECUTION ACCURACY
 SGT 6056.9 SGR 717.0 SG3 905.2
 RRT -.8494 RRF -.8465 RTF .9926
 SGB 6099.2 R23 .0001 R13 -.9926
 SG1 6087.6 SG2 376.4 THA 174.24

ORBIT DETERMINATION ACCURACY
 ST 3361.1 SR 207.2 SS 2271.7
 CRT -.3380 CRS .3514 CST -.9999
 LSA 4057.3 MSA 196.6 SSA 12.7
 EL1 3361.8 EL2 195.0 ALF 178.80

LAUNCH DATE NOV 18 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC
 RL 147.86 LAL .00 LOL 55.72 VL 27.838 GAL 7.72 AZL 87.15 MCA 254.83 SMA 130.09 ECC .19066 INC 2.8514 V1 30.133
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.632 GAP 5.80 AZP 90.75 TAL 142.94 TAP 37.78 RCA 105.29 APO 154.90 V2 34.783
 RC 105.643 GL 15.82 GP 9.94 ZAL 35.46 ZAP 143.90 ETS 13.85 ZAE 123.92 ETE 172.11 ZAC 78.05 ETC 167.36 CLP-145.12

PLANETOCENTRIC CONIC
 C3 25.347 VHL 5.035 DLA 23.77 RAL 15.49 RAD 6568.0 VEL 12.113 PTH 2.17 VHP 4.700 DPA .31 RAP 344.10 ECC 1.4171
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 36 3126.50 -26.98 105.54 249.81 81.05 5 47 43 2526.5 -27.94 97.01
 90.00 0 14 57 4061.28 -4.43 164.23 242.05 62.00 1 22 39 3461.3 -8.14 157.52
 100.00 6 36 9 2802.33 -29.08 82.03 250.15 82.75 7 22 51 2202.3 -29.78 73.30
 100.00 1 17 6 3860.68 -2.57 148.46 241.02 60.21 2 21 27 3260.7 -6.51 141.90
 110.00 8 22 37 2469.22 -34.05 57.27 250.68 86.84 9 3 47 1869.2 -34.12 48.02
 110.00 1 47 7 3766.55 1.67 138.69 238.38 55.85 2 49 54 3166.5 -2.82 132.48

DIFFERENTIAL CORRECTIONS
 TOE 2.7236 TRA 4.1054 TC3-1.7675 BAU .6023
 RDE .0598 RRA -.5014 RC3 .1871 FAU .04618
 FDE 4.1953 FRA 6.5705 FC3-1.5775 BSP 19882
 BDE 2.7242 BRA 4.1359 BC3 1.7774 FSP -3064

MID-COURSE EXECUTION ACCURACY
 SGT 6232.0 SGR 654.9 SG3 829.1
 RRT -.8104 RRF -.8066 RTF .9923
 SGB 6266.3 R23 -.0010 R13 -.9923
 SG1 6254.7 SG2 382.3 THA 175.11

ORBIT DETERMINATION ACCURACY
 ST 3457.7 SR 199.1 SS 2179.7
 CRT -.1102 CRS .1253 CST -.9999
 LSA 4087.4 MSA 199.8 SSA 12.7
 EL1 3457.8 EL2 197.9 ALF 179.64

LAUNCH DATE NOV 18 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 582.474

RL 147.86 LAL .00 LOL 55.72 VL 27.825 GAL 7.99 AZL 87.08 MCA 257.99 SMA 130.00 ECC .19447 INC 2.9214 V1 30.133
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.623 GAP 6.26 AZP 90.61 TAL 142.39 TAP 40.38 RCA 104.72 APO 155.28 V2 34.783
 RC 108.045 GL 15.78 GP 9.33 ZAL 35.04 ZAP 146.47 ETS 14.33 ZAE 122.70 ETE 172.72 ZAC 78.79 ETC 167.20 CLP-147.65

PLANETOCENTRIC CONIC

C3 26.669 VHL 5.164 OLA 23.91 RAL 15.95 RAD 6568.1 VEL 12.167 PTH 2.18 VMP 4.936 DPA -.02 RAP 344.91 ECC 1.4389
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 14 3146.89 -26.75 107.00 251.26 80.35 5 47 41 2546.9 -27.81 98.49
 90.00 0 19 3 4066.04 -4.27 164.50 243.36 61.98 1 26 49 3466.0 -7.99 157.79
 100.00 6 36 8 2821.56 -28.90 83.44 251.63 82.03 7 23 10 2221.6 -29.71 74.72
 100.00 1 20 50 3866.60 -2.37 148.79 242.31 60.19 2 25 17 3266.6 -6.32 142.23
 110.00 8 23 9 2486.77 -33.98 58.63 252.26 86.04 9 4 36 1886.8 -34.16 49.39
 110.00 1 50 19 3774.16 1.96 139.08 239.61 55.87 2 53 13 3174.2 -2.53 132.88

DIFFERENTIAL CORRECTIONS

TOE 2.8572 TRA 4.3289 TC3-1.7160 BAU .6147
 RDE .0972 RRA -.4674 RC3 .1663 FAU .04048
 FDE 3.9270 FRA 6.1930 FC3-1.3141 BSP 20485
 BDE 2.8588 BRA 4.3540 BC3 1.7240 FSP -2814

MID-COURSE EXECUTION ACCURACY

SGT 6386.9 SGR 602.5 SG3 759.7
 RRT -.7648 RRF -.7602 RTF .9919
 SGB 6415.3 R23 -.0019 R13 -.9919
 SG1 6403.6 SG2 387.1 THA 175.86

ORBIT DETERMINATION ACCURACY

ST 3540.6 SR 201.6 SS 2092.3
 CRT .1029 CRS -.0870 CST -.9998
 LSA 4112.6 MSA 202.6 SSA 12.8
 EL1 3540.7 EL2 200.5 ALF .34

LAUNCH DATE NOV 18 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 588.401

RL 147.86 LAL .00 LOL 55.72 VL 27.811 GAL 8.28 AZL 87.01 MCA 261.15 SMA 129.90 ECC .19863 INC 2.9897 V1 30.133
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.613 GAP 6.74 AZP 90.46 TAL 141.81 TAP 42.97 RCA 104.10 APO 155.71 V2 34.784
 RC 110.446 GL 15.70 GP 8.77 ZAL 34.58 ZAP 148.88 ETS 14.84 ZAE 121.61 ETE 173.23 ZAC 79.67 ETC 167.05 CLP-150.02

PLANETOCENTRIC CONIC

C3 28.138 VHL 5.305 OLA 24.02 RAL 16.45 RAD 6568.1 VEL 12.228 PTH 2.20 VMP 5.185 DPA -.22 RAP 345.84 ECC 1.4631
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 30 3166.29 -26.52 108.37 252.78 79.70 5 48 16 2566.3 -27.68 99.89
 90.00 0 22 47 4073.34 -4.04 164.91 244.74 61.95 1 30 40 3473.3 -7.76 158.20
 100.00 6 36 41 2840.04 -28.72 84.78 253.19 81.34 7 24 1 2240.0 -29.62 76.09
 100.00 1 24 17 3874.82 -2.09 149.24 243.66 60.17 2 28 51 3274.8 -6.04 142.68
 110.00 8 24 7 2503.93 -33.89 59.96 253.90 85.25 9 5 51 1903.9 -34.18 50.73
 110.00 1 53 20 3783.69 2.33 139.58 240.90 55.89 2 56 24 3183.7 -2.16 133.38

DIFFERENTIAL CORRECTIONS

TOE 2.9889 TRA 4.5587 TC3-1.6544 BAU .6248
 RDE .1327 RRA -.4367 RC3 .1478 FAU .03524
 FDE 3.6812 FRA 5.8527 FC3-1.0844 BSP 21027
 BDE 2.9919 BRA 4.5795 BC3 1.6610 FSP -2585

MID-COURSE EXECUTION ACCURACY

SGT 6524.2 SGR 558.4 SG3 696.8
 RRT -.7127 RRF -.7073 RTF .9915
 SGB 6548.1 R23 -.0028 R13 -.9915
 SG1 6536.4 SG2 391.0 THA 176.50

ORBIT DETERMINATION ACCURACY

ST 3611.3 SR 211.1 SS 2009.7
 CRT .2779 CRS -.2618 CST -.9998
 LSA 4133.1 MSA 205.1 SSA 12.8
 EL1 3611.7 EL2 202.8 ALF .93

LAUNCH DATE NOV 18 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 594.287

RL 147.86 LAL .00 LOL 55.72 VL 27.797 GAL 8.60 AZL 86.94 MCA 264.32 SMA 129.80 ECC .20318 INC 3.0569 V1 30.133
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.604 GAP 7.23 AZP 90.30 TAL 141.22 TAP 45.54 RCA 103.43 APO 156.17 V2 34.786
 RC 112.844 GL 15.58 GP 8.28 ZAL 34.10 ZAP 151.14 ETS 15.39 ZAE 120.62 ETE 173.67 ZAC 80.68 ETC 166.92 CLP-152.25

PLANETOCENTRIC CONIC

C3 29.774 VHL 5.457 OLA 24.10 RAL 16.98 RAD 6568.2 VEL 12.294 PTH 2.21 VMP 5.449 DPA -.32 RAP 346.88 ECC 1.4900
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 22 3184.77 -26.29 109.67 254.37 79.09 5 49 26 2584.8 -27.53 101.23
 90.00 0 26 8 4083.11 -3.73 165.45 246.17 61.91 1 34 11 3483.1 -7.46 158.76
 100.00 6 37 45 2857.85 -28.53 86.07 254.82 80.69 7 25 23 2257.8 -29.53 77.41
 100.00 1 27 26 3885.26 -1.73 149.81 245.06 60.15 2 32 11 3285.3 -5.69 143.26
 110.00 8 25 29 2520.79 -33.79 61.27 255.62 84.49 9 7 30 1920.8 -34.18 52.05
 110.00 1 56 11 3795.08 2.76 140.18 242.26 55.92 2 59 26 3195.1 -1.73 133.97

DIFFERENTIAL CORRECTIONS

TOE 3.1222 TRA 4.7993 TC3-1.5806 BAU .6313
 RDE .1663 RRA -.4087 RC3 .1308 FAU .03027
 FDE 3.4599 FRA 5.5500 FC3 -.8800 BSP 21443
 BDE 3.1266 BRA 4.8167 BC3 1.5860 FSP -2365

MID-COURSE EXECUTION ACCURACY

SGT 6648.5 SGR 521.5 SG3 640.1
 RRT -.6545 RRF -.6482 RTF .9911
 SGB 6669.0 R23 -.0036 R13 -.9911
 SG1 6657.3 SG2 393.7 THA 177.05

ORBIT DETERMINATION ACCURACY

ST 3673.4 SR 224.6 SS 1933.7
 CRT .4107 CRS -.3950 CST -.9998
 LSA 4152.4 MSA 207.1 SSA 12.8
 EL1 3674.6 EL2 204.7 ALF 1.44

LAUNCH DATE NOV 18 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 600.126

RL 147.86 LAL .00 LOL 55.72 VL 27.782 GAL 8.95 AZL 86.88 MCA 267.48 SMA 129.69 ECC .20815 INC 3.1233 V1 30.133
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.595 GAP 7.74 AZP 90.14 TAL 140.61 TAP 48.09 RCA 102.70 APO 156.69 V2 34.789
 RC 115.239 GL 15.43 GP 7.83 ZAL 33.60 ZAP 153.27 ETS 15.99 ZAE 119.72 ETE 174.05 ZAC 81.80 ETC 166.80 CLP-154.36

PLANETOCENTRIC CONIC

C3 31.597 VHL 5.621 OLA 24.15 RAL 17.53 RAD 6568.3 VEL 12.368 PTH 2.23 VMP 5.728 DPA -.33 RAP 348.02 ECC 1.5200
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 57 47 3202.41 -26.06 110.91 256.04 78.51 5 51 10 2602.4 -27.38 102.49
 90.00 0 29 7 4095.32 -3.34 166.14 247.65 61.86 1 37 23 3495.3 -7.07 159.45
 100.00 6 39 19 2875.06 -28.34 87.31 256.53 80.06 7 27 14 2275.1 -29.42 78.68
 100.00 1 30 17 3897.89 -1.31 150.51 246.53 60.13 2 35 15 3297.9 -5.27 143.96
 110.00 8 27 14 2537.41 -33.67 62.55 257.41 83.74 9 9 32 1937.4 -34.17 53.35
 110.00 1 58 51 3808.31 3.27 140.87 243.67 55.95 3 2 19 3208.3 -1.22 134.66

DIFFERENTIAL CORRECTIONS

TOE 3.2522 TRA 5.0465 TC3-1.5042 BAU .6373
 RDE .1989 RRA -.3824 RC3 .1159 FAU .02595
 FDE 3.2542 FRA 5.2742 FC3 -.7110 BSP 21893
 BDE 3.2582 BRA 5.0610 BC3 1.5086 FSP -2176

MID-COURSE EXECUTION ACCURACY

SGT 6754.8 SGR 490.5 SG3 588.2
 RRT -.5904 RRF -.5834 RTF .9907
 SGB 6772.6 R23 -.0044 R13 -.9907
 SG1 6761.0 SG2 395.5 THA 177.54

ORBIT DETERMINATION ACCURACY

ST 3721.7 SR 239.9 SS 1860.2
 CRT .5099 CRS -.4946 CST -.9998
 LSA 4162.4 MSA 208.8 SSA 12.7
 EL1 3723.7 EL2 206.3 ALF 1.89

LAUNCH DATE NOV 19 1968

FLIGHT TIME 70.00

ARRIVAL DATE JAN 28 1969

HELIOCENTRIC CONIC

DISTANCE 122.677

RL 147.83 LAL .00 LOL 56.73 VL 13.992 GAL 39.59 AZL 89.01 MCA 27.38 SMA 82.96 ECC .87706 INC .9901 V1 30.139
 RP 107.71 LAP .46 LOP 84.10 VP 29.404 GAP -59.78 AZP 89.12 TAL 172.99 TAP 200.36 RCA 10.20 APO 155.72 V2 35.184
 RC 101.983 GL .50 GP -1.13 ZAL 64.40 ZAP 38.96 ETS 176.27 ZAE 127.97 ETE 183.43 ZAC 40.33 ETC 153.90 CLP 38.95

PLANETOCENTRIC CONIC

C3 460.672 VHL 21.463 DLA -2.59 RAL 352.76 RAD 6572.3 VEL 24.124 PTH 3.31 VHP 32.454 DPA -23.00 RAP 306.16 ECC 8.5815
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 18 54 2752.63 -27.98 78.37 257.99 94.53 8 4 46 2152.6 -27.06 69.83
 90.00 18 38 33 5557.09 28.29 259.04 260.75 91.33 20 11 10 4957.1 28.17 250.38
 100.00 8 39 2 2494.12 -29.56 59.22 257.84 94.68 9 20 36 1894.1 -28.59 50.55
 100.00 20 1 6 5290.82 29.87 239.50 260.79 91.27 21 29 17 4690.8 29.72 230.70
 110.00 9 44 31 2289.15 -33.84 43.23 257.41 95.13 10 22 40 1689.1 -32.76 34.16
 110.00 21 12 6 5068.56 34.17 222.74 260.90 91.10 22 36 35 4468.6 33.94 213.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0170 TRA-2.3852 TC3 -.1038 BAU .6401 SGT 823.8 SGR 460.7 SG3 21.3 ST 332.3 SR 411.2 SS 337.4
 RDE-1.5209 RRA .8120 RC3 -.0044 FAU .01011 RRT -.0519 RRF .0465 RTF -.6141 CRT .7156 CRS .7594 CST .9961
 FDE .3845 FRA .7833 FC3 -.0190 BSP 1951 SGB 943.9 R23 -.0002 R13 .6142 LSA 585.5 MSA 224.5 SSA 14.2
 BDE 1.8296 BRA 2.5196 BC3 .1039 FSP -43 SG1 824.3 SG2 459.8 THA 177.59 EL1 491.8 EL2 194.1 ALF 53.34

LAUNCH DATE NOV 19 1968

FLIGHT TIME 72.00

ARRIVAL DATE JAN 30 1969

HELIOCENTRIC CONIC

DISTANCE 127.686

RL 147.83 LAL .00 LOL 56.73 VL 14.833 GAL 37.47 AZL 88.73 MCA 30.61 SMA 84.24 ECC .85386 INC 1.2656 V1 30.139
 RP 107.68 LAP .64 LOP 87.33 VP 29.825 GAP -57.19 AZP 88.91 TAL 172.03 TAP 202.64 RCA 12.31 APO 156.17 V2 35.193
 RC 99.759 GL .72 GP -1.16 ZAL 62.95 ZAP 37.42 ETS 176.23 ZAE 127.64 ETE 183.73 ZAC 41.90 ETC 154.75 CLP 37.41

PLANETOCENTRIC CONIC

C3 425.390 VHL 20.625 DLA -1.81 RAL 354.01 RAD 6572.2 VEL 23.381 PTH 3.29 VHP 31.355 DPA -22.68 RAP 307.96 ECC 8.0008
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 18 4 2769.73 -28.07 79.62 259.09 93.91 8 4 14 2169.7 -27.23 71.05
 90.00 18 49 20 5525.65 28.32 256.74 261.03 90.18 20 21 26 4925.6 28.04 248.09
 100.00 8 38 34 2510.04 -29.64 60.40 258.97 94.07 9 20 24 1910.0 -28.76 51.70
 100.00 20 11 31 5260.56 29.89 237.25 261.03 90.08 21 39 12 4660.6 29.58 228.46
 110.00 9 44 53 2302.45 -33.92 44.26 258.59 94.53 10 23 16 1702.4 -32.92 35.17
 110.00 21 21 42 5040.92 34.18 220.58 261.03 89.82 22 45 43 4440.9 33.78 211.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0291 TRA-2.4156 TC3 -.1111 BAU .6327 SGT 861.8 SGR 467.1 SG3 23.0 ST 350.0 SR 416.1 SS 353.7
 RDE-1.4786 RRA .7968 RC3 -.0052 FAU .01005 RRT -.0534 RRF .0481 RTF -.6326 CRT .7145 CRS .7608 CST .9960
 FDE .4017 FRA .8125 FC3 -.0205 BSP 2064 SGB 980.3 R23 -.0004 R13 .6327 LSA 606.1 MSA 230.6 SSA 14.4
 BDE 1.8015 BRA 2.5437 BC3 .1113 FSP -47 SG1 862.3 SG2 466.2 THA 177.66 EL1 504.9 EL2 201.8 ALF 51.84

LAUNCH DATE NOV 19 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 1 1969

HELIOCENTRIC CONIC

DISTANCE 132.847

RL 147.83 LAL .00 LOL 56.73 VL 15.630 GAL 35.56 AZL 88.51 MCA 33.84 SMA 85.56 ECC .82997 INC 1.4929 V1 30.139
 RP 107.65 LAP .83 LOP 90.56 VP 30.240 GAP -54.73 AZP 88.76 TAL 171.08 TAP 204.92 RCA 14.55 APO 156.57 V2 35.202
 RC 97.535 GL .96 GP -1.18 ZAL 61.54 ZAP 35.90 ETS 176.18 ZAE 127.37 ETE 184.05 ZAC 43.49 ETC 155.55 CLP 35.89

PLANETOCENTRIC CONIC

C3 393.029 VHL 19.825 DLA -1.03 RAL 355.21 RAD 6572.1 VEL 22.679 PTH 3.26 VHP 30.291 DPA -22.34 RAP 309.78 ECC 7.4683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 17 7 2786.16 -28.14 80.82 260.12 93.31 8 3 33 2186.2 -27.38 72.23
 90.00 18 59 52 5494.08 28.30 254.44 261.23 89.02 20 31 26 4894.1 27.87 245.80
 100.00 8 37 59 2525.32 -29.71 61.53 260.02 93.48 9 20 4 1925.3 -28.91 52.81
 100.00 20 21 42 5230.16 29.87 234.99 261.19 88.89 21 48 52 4630.2 29.40 226.22
 110.00 9 45 8 2315.14 -33.98 45.25 259.69 93.95 10 23 43 1715.1 -33.06 36.13
 110.00 21 31 2 5013.11 34.16 218.40 261.08 88.53 22 54 35 4413.1 33.58 209.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0383 TRA-2.4440 TC3 -.1184 BAU .6231 SGT 899.8 SGR 473.0 SG3 24.7 ST 367.6 SR 420.5 SS 370.0
 RDE-1.4362 RRA .7804 RC3 -.0061 FAU .01003 RRT -.0553 RRF .0499 RTF -.6503 CRT .7129 CRS .7619 CST .9958
 FDE .4188 FRA .8417 FC3 -.0221 BSP 2254 SGB 1016.5 R23 -.0003 R13 .6504 LSA 626.7 MSA 236.5 SSA 14.6
 BDE 1.7722 BRA 2.5655 BC3 .1186 FSP -52 SG1 900.3 SG2 472.0 THA 177.70 EL1 517.9 EL2 209.4 ALF 50.36

LAUNCH DATE NOV 19 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 3 1969

HELIOCENTRIC CONIC

DISTANCE 138.150

RL 147.83 LAL .00 LOL 56.73 VL 16.385 GAL 33.83 AZL 88.31 MCA 37.08 SMA 86.91 ECC .80561 INC 1.6851 V1 30.139
 RP 107.63 LAP 1.02 LOP 93.80 VP 30.646 GAP -52.41 AZP 88.66 TAL 170.12 TAP 207.19 RCA 16.89 APO 156.93 V2 35.210
 RC 95.312 GL 1.20 GP -1.21 ZAL 60.18 ZAP 34.41 ETS 176.13 ZAE 127.15 ETE 184.39 ZAC 45.12 ETC 156.31 CLP 34.39

PLANETOCENTRIC CONIC

C3 363.305 VHL 19.061 DLA -.26 RAL 356.36 RAD 6572.0 VEL 22.014 PTH 3.24 VHP 29.261 DPA -21.98 RAP 311.63 ECC 6.9791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 16 3 2801.94 -28.20 81.97 261.07 92.74 8 2 45 2201.9 -27.52 73.37
 90.00 19 10 10 5462.35 28.24 252.12 261.35 87.86 20 41 12 4862.4 27.65 243.50
 100.00 8 37 16 2539.95 -29.76 62.61 260.98 92.91 9 19 36 1940.0 -29.04 53.88
 100.00 20 31 38 5199.57 29.81 232.72 261.28 87.70 21 58 17 4599.6 29.17 223.98
 110.00 9 45 14 2327.22 -34.03 46.19 260.70 93.39 10 24 1 1727.2 -33.19 37.05
 110.00 21 40 9 4985.07 34.09 216.22 261.06 87.24 23 3 14 4385.1 33.33 207.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0499 TRA-2.4754 TC3 -.1262 BAU .6140 SGT 940.6 SGR 478.3 SG3 26.5 ST 386.8 SR 424.5 SS 386.8
 RDE-1.3934 RRA .7628 RC3 -.0070 FAU .01000 RRT -.0568 RRF .0515 RTF -.6676 CRT .7116 CRS .7631 CST .9956
 FDE .4365 FRA .8716 FC3 -.0238 BSP 2391 SGB 1055.3 R23 -.0005 R13 .6678 LSA 648.5 MSA 242.1 SSA 14.9
 BDE 1.7447 BRA 2.5903 BC3 .1264 FSP -57 SG1 941.2 SG2 477.2 THA 177.77 EL1 531.7 EL2 217.0 ALF 48.72

LAUNCH DATE NOV 19 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 5 1969

HELIOCENTRIC CONIC

DISTANCE 143.588

RL 147.83 LAL .00 LOL 56.73 VL 17.099 GAL 32.24 AZL 88.15 HCA 40.32 SMA 88.29 ECC .78096 INC 1.8505 V1 30.139
 RP 107.60 LAP 1.20 LOP 97.03 VP 31.043 GAP -50.20 AZP 88.59 TAL 169.15 TAP 209.47 RCA 19.34 APO 157.25 V2 35.218
 RC 93.090 GL 1.46 GP -1.24 ZAL 58.86 ZAP 32.94 ETS 176.06 ZAE 126.99 ETE 184.74 ZAC 46.78 ETC 157.03 CLP 32.92

PLANETOCENTRIC CONIC

C3 335.964 VHL 18.329 DLA .50 RAL 357.47 RAD 6571.9 VEL 21.384 PTH 3.21 VHP 28.262 DPA -21.59 RAP 313.49 ECC 6.5291
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 14 51 2817.08 -28.24 83.07 261.94 92.19 8 1 48 2217.1 -27.64 74.46
 90.00 19 20 13 5430.41 28.14 249.78 261.41 86.69 20 50 43 4830.4 27.38 241.20
 100.00 8 36 25 2553.96 -29.81 63.65 261.87 92.36 9 18 59 1954.0 -29.16 54.91
 100.00 20 41 20 5168.76 29.71 230.44 261.30 86.50 22 7 28 4568.8 28.90 221.73
 110.00 9 45 11 2338.69 -34.08 47.08 261.64 92.87 10 24 10 1738.7 -33.30 37.92
 110.00 21 49 3 4956.79 33.97 214.02 260.97 85.94 23 11 39 4356.8 33.04 204.90

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0615 TRA-2.5070 TC3 -.1343 BAU .6041 SGT 983.1 SGR 482.9 SG3 28.5 ST 406.9 SR 427.9 SS 403.9
 RDE-1.3504 RRA .7443 RC3 -.0081 FAU .00998 RRT -.0581 RRF .0530 RTF -.6844 CRT .7103 CRS .7641 CST .9954
 FDE .4546 FRA .9021 FC3 -.0257 BSP 2537 SGB 1095.3 R23 -.0007 R13 .6845 LSA 671.1 MSA 247.5 SSA 15.1
 BDE 1.7177 BRA 2.6152 BC3 .1345 FSP -62 SG1 983.7 SG2 481.9 THA 177.85 EL1 546.2 EL2 224.4 ALF 47.02

LAUNCH DATE NOV 19 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 7 1969

HELIOCENTRIC CONIC

DISTANCE 149.153

RL 147.83 LAL .00 LOL 56.73 VL 17.773 GAL 30.77 AZL 88.00 HCA 43.56 SMA 89.70 ECC .75619 INC 1.9953 V1 30.139
 RP 107.58 LAP 1.37 LOP 100.27 VP 31.428 GAP -48.11 AZP 88.55 TAL 168.20 TAP 211.75 RCA 21.87 APO 157.52 V2 35.225
 RC 90.872 GL 1.73 GP -1.27 ZAL 57.59 ZAP 31.50 ETS 175.99 ZAE 126.89 ETE 185.10 ZAC 48.47 ETC 157.70 CLP 31.48

PLANETOCENTRIC CONIC

C3 310.787 VHL 17.629 DLA 1.25 RAL 358.54 RAD 6571.8 VEL 20.787 PTH 3.18 VHP 27.294 DPA -21.19 RAP 315.36 ECC 6.1148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 13 30 2831.59 -28.27 84.13 262.72 91.66 8 0 42 2231.6 -27.74 75.51
 90.00 19 30 3 5398.21 27.99 247.44 261.39 85.53 21 0 1 4798.2 27.08 238.89
 100.00 8 35 25 2567.34 -29.84 64.64 262.67 91.84 9 18 13 1967.3 -29.27 55.89
 100.00 20 50 48 5137.69 29.55 228.14 261.25 85.30 22 16 26 4537.7 28.59 219.47
 110.00 9 45 0 2349.56 -34.11 47.93 262.48 92.37 10 24 10 1749.6 -33.41 38.76
 110.00 21 57 43 4928.23 33.81 211.80 260.81 84.64 23 19 51 4328.2 32.70 202.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0732 TRA-2.5391 TC3 -.1426 BAU .5937 SGT 1027.5 SGR 487.0 SG3 30.6 ST 428.0 SR 430.7 SS 421.4
 RDE-1.3073 RRA .7249 RC3 -.0094 FAU .00998 RRT -.0594 RRF .0545 RTF -.7005 CRT .7090 CRS .7652 CST .9952
 FDE .4731 FRA .9331 FC3 -.0278 BSP 2682 SGB 1137.0 R23 -.0009 R13 .7006 LSA 694.5 MSA 252.5 SSA 15.3
 BDE 1.6914 BRA 2.6405 BC3 .1429 FSP -68 SG1 1028.0 SG2 485.9 THA 177.92 EL1 561.3 EL2 231.6 ALF 45.25

LAUNCH DATE NOV 19 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 9 1969

HELIOCENTRIC CONIC

DISTANCE 154.837

RL 147.83 LAL .00 LOL 56.73 VL 18.411 GAL 29.39 AZL 87.88 HCA 46.80 SMA 91.12 ECC .73142 INC 2.1239 V1 30.139
 RP 107.56 LAP 1.55 LOP 103.51 VP 31.800 GAP -46.11 AZP 88.55 TAL 167.25 TAP 214.04 RCA 24.47 APO 157.76 V2 35.232
 RC 88.659 GL 2.01 GP -1.31 ZAL 56.37 ZAP 30.07 ETS 175.89 ZAE 126.85 ETE 185.49 ZAC 50.19 ETC 158.34 CLP 30.05

PLANETOCENTRIC CONIC

C3 287.578 VHL 16.958 DLA 2.00 RAL 359.56 RAD 6571.7 VEL 20.221 PTH 3.15 VHP 26.354 DPA -20.76 RAP 317.25 ECC 5.7328
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 12 1 2845.48 -28.30 85.15 263.42 91.15 7 59 27 2245.5 -27.84 76.51
 90.00 19 39 40 5365.71 27.80 245.08 261.31 84.36 21 9 5 4765.7 26.72 236.58
 100.00 8 34 17 2580.10 -29.87 65.59 263.38 91.34 9 17 18 1980.1 -29.36 56.82
 100.00 21 0 4 5106.31 29.36 225.83 261.13 84.10 22 25 11 4506.3 28.23 217.21
 110.00 9 44 40 2359.82 -34.14 48.73 263.24 91.89 10 24 0 1759.8 -33.50 39.54
 110.00 22 6 11 4899.36 33.61 209.57 260.58 83.34 23 27 50 4299.4 32.32 200.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0849 TRA-2.5708 TC3 -.1512 BAU .5826 SGT 1073.6 SGR 490.4 SG3 32.8 ST 450.1 SR 433.0 SS 439.2
 RDE-1.2640 RRA .7046 RC3 -.0107 FAU .00999 RRT -.0605 RRF .0559 RTF -.7160 CRT .7077 CRS .7661 CST .9950
 FDE .4920 FRA .9647 FC3 -.0301 BSP 2837 SGB 1180.3 R23 -.0012 R13 .7161 LSA 718.8 MSA 257.1 SSA 15.5
 BDE 1.6658 BRA 2.6656 BC3 .1515 FSP -74 SG1 1074.1 SG2 489.2 THA 178.00 EL1 577.2 EL2 238.6 ALF 43.44

LAUNCH DATE NOV 19 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 11 1969

HELIOCENTRIC CONIC

DISTANCE 160.632

RL 147.83 LAL .00 LOL 56.73 VL 19.014 GAL 28.11 AZL 87.76 HCA 50.04 SMA 92.55 ECC .70678 INC 2.2395 V1 30.139
 RP 107.54 LAP 1.72 LOP 106.75 VP 32.159 GAP -44.20 AZP 88.56 TAL 166.30 TAP 216.34 RCA 27.14 APO 157.97 V2 35.238
 RC 86.453 GL 2.30 GP -1.35 ZAL 55.18 ZAP 28.67 ETS 175.78 ZAE 126.87 ETE 185.89 ZAC 51.93 ETC 158.94 CLP 28.64

PLANETOCENTRIC CONIC

C3 266.168 VHL 16.315 DLA 2.74 RAL .53 RAD 6571.6 VEL 19.685 PTH 3.12 VHP 25.442 DPA -20.30 RAP 319.15 ECC 5.3805
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 10 23 2858.77 -28.31 86.12 264.04 90.66 7 58 2 2258.8 -27.92 77.48
 90.00 19 49 4 5332.87 27.55 242.71 261.16 83.20 21 17 57 4732.9 26.32 234.26
 100.00 8 33 0 2592.27 -29.88 66.50 264.02 90.87 9 16 13 1992.3 -29.44 57.72
 100.00 21 9 8 5074.59 29.11 223.50 260.95 82.90 22 33 43 4474.6 27.82 214.94
 110.00 9 44 11 2369.50 -34.16 49.48 263.92 91.45 10 23 40 1769.5 -33.58 40.29
 110.00 22 14 27 4870.13 33.35 207.33 260.29 82.03 23 35 37 4270.1 31.89 198.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0963 TRA-2.6022 TC3 -.1600 BAU .5709 SGT 1121.5 SGR 493.1 SG3 35.2 ST 473.1 SR 434.7 SS 457.5
 RDE-1.2207 RRA .6836 RC3 -.0122 FAU .01001 RRT -.0615 RRF .0572 RTF -.7309 CRT .7064 CRS .7670 CST .9948
 FDE .5114 FRA .9970 FC3 -.0326 BSP 2997 SGB 1225.1 R23 -.0015 R13 .7310 LSA 744.0 MSA 261.3 SSA 15.6
 BDE 1.6407 BRA 2.6905 BC3 .1604 FSP -80 SG1 1122.0 SG2 491.9 THA 178.08 EL1 593.9 EL2 245.1 ALF 41.58

LAUNCH DATE NOV 19 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC

DISTANCE 166.533

RL 147.83 LAL .00 LOL 56.73 VL 19.583 GAL 26.90 AZL 87.66 MCA 53.28 SMA 93.99 ECC .68238 INC 2.3447 V1 30.139
 RP 107.53 LAP 1.88 LOP 109.99 VP 32.504 GAP -42.38 AZP 88.60 TAL 165.37 TAP 218.65 RCA 29.85 APO 158.13 V2 35.243
 RC 84.254 GL 2.61 GP -1.39 ZAL 54.05 ZAP 27.28 ETS 175.64 ZAE 126.96 ETE 186.31 ZAC 53.69 ETC 159.51 CLP 27.25

PLANETOCENTRIC CONIC

C3 246.404 VHL 15.697 DLA 3.48 RAL 1.46 RAD 6571.4 VEL 19.176 PTH 3.09 VHP 24.555 DPA -19.83 RAP 321.06 ECC 5.0552
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 36 2871.48 -28.32 87.05 264.58 90.19 7 56 27 2271.5 -27.99 78.40
 90.00 19 58 18 5299.65 27.26 240.32 260.95 82.03 21 26 38 4699.6 25.88 231.93
 100.00 8 31 34 2603.87 -29.89 67.36 264.57 90.41 9 14 58 2003.9 -29.51 58.57
 100.00 21 18 1 5042.49 28.82 221.16 260.69 81.70 22 42 3 4442.5 27.37 212.66
 110.00 9 43 32 2378.60 -34.17 50.19 264.50 91.03 10 23 11 1778.6 -33.65 40.99
 110.00 22 22 32 4840.52 33.05 205.07 259.93 80.73 23 43 12 4240.5 31.42 196.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1073 TRA-2.6326 TC3 -.1689 BAU .5584 SGT 1171.1 SGR 495.1 SG3 37.8 ST 497.0 SR 435.8 SS 476.2
 RDE-1.1773 RRA .6619 RC3 -.0139 FAU .01005 RRT -.0624 RRF .0584 RTF -.7452 CRT .7051 CRS .7679 CST .9946
 FDE .5313 FRA 1.0300 FC3 -.0353 BSP 3172 SGB 1271.4 R23 -.0019 R13 .7453 LSA 770.2 MSA 265.1 SSA 15.8
 BDE 1.6162 BRA 2.7145 BC3 .1695 FSP -87 SG1 1171.6 SG2 494.0 THA 178.16 EL1 611.4 EL2 251.2 ALF 39.71

LAUNCH DATE NOV 19 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

DISTANCE 172.531

RL 147.83 LAL .00 LOL 56.73 VL 20.121 GAL 25.76 AZL 87.56 MCA 56.53 SMA 95.43 ECC .65829 INC 2.4414 V1 30.139
 RP 107.51 LAP 2.04 LOP 113.23 VP 32.836 GAP -40.64 AZP 88.65 TAL 164.45 TAP 220.98 RCA 32.61 APO 158.26 V2 35.247
 RC 82.065 GL 2.93 GP -1.44 ZAL 52.95 ZAP 25.91 ETS 175.47 ZAE 127.11 ETE 186.75 ZAC 55.48 ETC 160.04 CLP 25.87

PLANETOCENTRIC CONIC

C3 228.150 VHL 15.105 DLA 4.21 RAL 2.35 RAD 6571.3 VEL 18.694 PTH 3.06 VHP 23.693 DPA -19.34 RAP 322.97 ECC 4.7548
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 6 38 2883.64 -28.32 87.94 265.02 89.75 7 54 42 2283.6 -28.05 79.28
 90.00 20 7 20 5265.99 26.92 237.92 260.67 80.87 21 35 6 4666.0 25.38 229.59
 100.00 8 29 57 2614.91 -29.89 68.18 265.03 89.98 9 13 32 2014.9 -29.58 59.39
 100.00 21 26 43 5009.96 28.48 218.80 260.38 80.50 22 50 12 4410.0 26.87 210.37
 110.00 9 42 44 2387.14 -34.18 50.86 265.00 90.63 10 22 31 1787.1 -33.71 41.65
 110.00 22 30 25 4810.49 32.70 202.80 259.51 79.43 23 50 36 4210.5 30.89 194.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1177 TRA-2.6618 TC3 -.1780 BAU .5452 SGT 1222.3 SGR 496.5 SG3 40.6 ST 521.8 SR 436.3 SS 495.4
 RDE-1.1340 RRA .6397 RC3 -.0157 FAU .01011 RRT -.0633 RRF .0596 RTF -.7589 CRT .7038 CRS .7688 CST .9944
 FDE .5518 FRA 1.0638 FC3 -.0384 BSP 3361 SGB 1319.3 R23 -.0022 R13 .7589 LSA 797.3 MSA 268.5 SSA 16.0
 BDE 1.5922 BRA 2.7376 BC3 .1787 FSP -95 SG1 1222.8 SG2 495.3 THA 178.24 EL1 629.8 EL2 256.8 ALF 37.83

LAUNCH DATE NOV 19 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

DISTANCE 178.622

RL 147.83 LAL .00 LOL 56.73 VL 20.629 GAL 24.67 AZL 87.47 MCA 59.77 SMA 96.88 ECC .63459 INC 2.5311 V1 30.139
 RP 107.50 LAP 2.19 LOP 116.48 VP 33.154 GAP -38.96 AZP 88.73 TAL 163.54 TAP 223.31 RCA 35.40 APO 158.35 V2 35.251
 RC 79.887 GL 3.26 GP -1.49 ZAL 51.91 ZAP 24.56 ETS 175.28 ZAE 127.32 ETE 187.21 ZAC 57.29 ETC 160.55 CLP 24.51

PLANETOCENTRIC CONIC

C3 211.286 VHL 14.536 DLA 4.94 RAL 3.20 RAD 6571.2 VEL 18.237 PTH 3.02 VHP 22.856 DPA -18.82 RAP 324.89 ECC 4.4772
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 30 2895.29 -28.31 88.79 265.39 89.32 7 52 45 2295.3 -28.10 80.13
 90.00 20 16 13 5231.87 26.53 235.50 260.33 79.72 21 43 25 4631.9 24.84 227.24
 100.00 8 28 10 2625.42 -29.89 68.96 265.41 89.57 9 11 55 2025.4 -29.63 60.17
 100.00 21 35 14 4976.97 28.08 216.43 260.01 79.31 22 58 11 4377.0 26.32 208.07
 110.00 9 41 45 2395.14 -34.18 51.49 265.41 90.26 10 21 40 1795.1 -33.77 42.27
 110.00 22 38 9 4780.01 32.29 200.51 259.04 78.13 23 57 49 4180.0 30.32 191.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1278 TRA-2.6897 TC3 -.1872 BAU .5313 SGT 1275.3 SGR 497.1 SG3 43.6 ST 547.5 SR 436.1 SS 515.0
 RDE-1.0907 RRA .6170 RC3 -.0177 FAU .01019 RRT -.0640 RRF .0608 RTF -.7720 CRT .7025 CRS .7697 CST .9941
 FDE .5730 FRA 1.0984 FC3 -.0418 BSP 3563 SGB 1368.7 R23 -.0025 R13 .7720 LSA 825.5 MSA 271.4 SSA 16.1
 BDE 1.5690 BRA 2.7596 BC3 .1881 FSP -103 SG1 1275.8 SG2 495.9 THA 178.32 EL1 649.2 EL2 261.8 ALF 35.96

LAUNCH DATE NOV 19 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 184.798

RL 147.83 LAL .00 LOL 56.73 VL 21.108 GAL 23.65 AZL 87.38 MCA 63.02 SMA 98.31 ECC .61136 INC 2.6151 V1 30.139
 RP 107.49 LAP 2.33 LOP 119.73 VP 33.457 GAP -37.36 AZP 88.81 TAL 162.65 TAP 225.67 RCA 38.21 APO 158.42 V2 35.254
 RC 77.721 GL 3.62 GP -1.55 ZAL 50.90 ZAP 23.22 ETS 175.04 ZAE 127.61 ETE 187.70 ZAC 59.11 ETC 161.03 CLP 23.17

PLANETOCENTRIC CONIC

C3 195.703 VHL 13.989 DLA 5.67 RAL 4.00 RAD 6571.1 VEL 17.805 PTH 2.99 VHP 22.041 DPA -18.29 RAP 326.82 ECC 4.2208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 2 10 2906.45 -28.30 89.61 265.67 88.91 7 50 37 2306.4 -28.15 80.94
 90.00 20 24 56 5197.23 26.09 233.06 259.93 78.57 21 51 33 4597.2 24.25 224.87
 100.00 8 26 12 2635.43 -29.88 69.71 265.70 89.18 9 10 7 2035.4 -29.68 60.91
 100.00 21 43 36 4943.49 27.64 214.04 259.57 78.13 23 5 59 4343.5 25.72 205.76
 110.00 9 40 35 2402.63 -34.18 52.07 265.74 89.92 10 20 38 1802.6 -33.82 42.84
 110.00 22 45 42 4749.05 31.84 198.21 258.50 76.84 24 4 51 4149.1 29.70 189.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1420 TRA-2.7208 TC3 -.1975 BAU .5192 SGT 1333.4 SGR 497.0 SG3 46.8 ST 576.1 SR 435.3 SS 535.7
 RDE-1.0476 RRA .5940 RC3 -.0199 FAU .01027 RRT -.0639 RRF .0616 RTF -.7844 CRT .7021 CRS .7707 CST .9940
 FDE .5956 FRA 1.1346 FC3 -.0454 BSP 3667 SGB 1423.0 R23 -.0035 R13 .7845 LSA 856.3 MSA 273.6 SSA 16.3
 BDE 1.5497 BRA 2.7849 BC3 .1985 FSP -111 SG1 1333.9 SG2 495.8 THA 178.42 EL1 671.3 EL2 266.0 ALF 33.99

LAUNCH DATE NOV 19 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 21.560 GAL 22.67 AZL 87.31 MCA 66.27 SMA 99.74 ECC .58864 INC 2.6944 V1 30.139
 RP 107.48 LAP 2.47 LOP 122.97 VP 33.747 GAP -35.82 AZP 88.91 TAL 161.77 TAP 228.04 RCA 41.03 APO 158.45 V2 35.256
 RC 75.571 GL 3.98 GP -1.61 ZAL 49.94 ZAP 21.89 ETS 174.74 ZAE 127.96 ETE 188.22 ZAC 60.96 ETC 161.49 CLP 21.83

PLANETOCENTRIC CONIC

C3 181.299 VHL 13.465 DLA 6.40 RAL 4.75 RAD 6570.9 VEL 17.396 PTH 2.96 VHP 21.249 DPA -17.75 RAP 328.75 ECC 3.9837
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 59 39 2917.17 -28.28 90.39 265.87 88.52 7 48 16 2317.2 -28.19 81.73
 90.00 20 33 30 5162.05 25.59 230.60 259.48 77.44 21 59 32 4562.0 23.60 222.49
 100.00 8 24 2 2644.99 -29.87 70.42 265.91 88.80 9 8 7 2045.0 -29.72 61.61
 100.00 21 51 48 4909.45 27.14 211.64 259.08 76.96 23 13 38 4309.5 25.07 203.44
 110.00 9 39 14 2409.63 -34.18 52.62 265.98 89.59 10 19 24 1809.6 -33.86 43.39
 110.00 22 53 5 4717.58 31.33 195.90 257.91 75.56 24 11 43 4117.6 29.03 187.45

DIFFERENTIAL CORRECTIONS

TDE-1.1505 TRA-2.7447 TC3 -.2066 BAU .5037 SGT 1389.4 SGR 496.1 SG3 50.3 ST 603.5 SR 433.8 SS 556.5
 RDE-1.0047 RRA .5707 RC3 -.0223 FAU .01039 RRT -.0646 RRF .0626 RTF -.7964 CRT 7008 CRS .7716 CST .9937
 FDE .6184 FRA 1.1711 FC3 -.0496 BSP 3910 SCB 1475.3 R23 -.0038 R13 .7964 LSA 886.6 MSA 275.5 SSA 16.4
 BDE 1.5274 BRA 2.8034 BC3 .2078 FSP -121 SG1 1389.9 SG2 494.9 TMA 178.49 EL1 692.6 EL2 269.6 ALF 32.18

LAUNCH DATE NOV 19 1968

FLIGHT TIME 96.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 21.987 GAL 21.73 AZL 87.23 MCA 69.51 SMA 101.15 ECC .56648 INC 2.7698 V1 30.139
 RP 107.48 LAP 2.59 LOP 126.22 VP 34.023 GAP -34.34 AZP 89.03 TAL 160.91 TAP 230.43 RCA 43.85 APO 158.45 V2 35.258
 RC 73.439 GL 4.37 GP -1.67 ZAL 49.03 ZAP 20.57 ETS 174.39 ZAE 128.40 ETE 188.76 ZAC 62.81 ETC 161.92 CLP 20.51

PLANETOCENTRIC CONIC

C3 167.992 VHL 12.961 DLA 7.12 RAL 5.47 RAD 6570.8 VEL 17.009 PTH 2.92 VHP 20.479 DPA -17.18 RAP 330.67 ECC 3.7647
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 56 55 2927.50 -28.26 91.15 265.98 88.14 7 45 42 2327.5 -28.22 82.48
 90.00 20 41 57 5126.27 25.04 228.13 258.97 76.32 22 7 23 4526.3 22.91 220.10
 100.00 8 21 40 2654.15 -29.86 71.10 266.03 88.45 9 5 54 2054.1 -29.75 62.29
 100.00 21 59 53 4874.86 26.58 209.21 258.54 75.80 23 21 8 4274.9 24.37 201.11
 110.00 9 37 42 2416.19 -34.18 53.13 266.13 89.29 10 17 58 1816.2 -33.90 43.90
 110.00 23 0 20 4685.58 30.76 193.58 257.27 74.30 24 18 26 4085.6 28.30 185.25

DIFFERENTIAL CORRECTIONS

TDE-1.1721 TRA-2.7803 TC3 -.2190 BAU .4950 SGT 1457.7 SGR 494.4 SG3 54.1 ST 637.8 SR 431.5 SS 579.5
 RDE -.9619 RRA .5474 RC3 -.0249 FAU .01045 RRT -.0626 RRF .0629 RTF -.8073 CRT 7019 CRS .7729 CST .9937
 FDE .6441 FRA 1.2106 FC3 -.0539 BSP 3843 SCB 1539.2 R23 -.0059 R13 .8074 LSA 923.1 MSA 276.3 SSA 16.6
 BDE 1.5163 BRA 2.8337 BC3 .2204 FSP -128 SG1 1458.0 SG2 493.3 TMA 178.63 EL1 720.4 EL2 272.1 ALF 30.13

LAUNCH DATE NOV 19 1968

FLIGHT TIME 98.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 22.390 GAL 20.85 AZL 87.16 MCA 72.76 SMA 102.55 ECC .54493 INC 2.8421 V1 30.139
 RP 107.48 LAP 2.71 LOP 129.47 VP 34.285 GAP -32.92 AZP 89.16 TAL 160.08 TAP 232.83 RCA 46.67 APO 158.43 V2 35.259
 RC 71.328 GL 4.77 GP -1.75 ZAL 48.16 ZAP 19.27 ETS 173.97 ZAE 128.91 ETE 189.34 ZAC 64.69 ETC 162.32 CLP 19.20

PLANETOCENTRIC CONIC

C3 155.714 VHL 12.479 DLA 7.85 RAL 6.14 RAD 6570.7 VEL 16.645 PTH 2.89 VHP 19.731 DPA -16.61 RAP 332.60 ECC 3.5627
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 53 57 2937.53 -28.24 91.88 266.01 87.78 7 42 55 2337.5 -28.25 83.21
 90.00 20 50 17 5089.88 24.43 225.64 258.41 75.21 22 15 7 4489.9 22.16 217.70
 100.00 8 19 5 2662.97 -29.84 71.75 266.08 88.10 9 3 28 2063.0 -29.78 62.95
 100.00 22 7 50 4839.67 25.97 206.78 257.95 74.66 23 28 30 4239.7 23.61 198.77
 110.00 9 35 58 2422.38 -34.17 53.61 266.21 89.00 10 16 20 1822.4 -33.93 44.38
 110.00 23 7 27 4653.03 30.14 191.25 256.59 73.05 24 25 0 4053.0 27.52 183.03

DIFFERENTIAL CORRECTIONS

TDE-1.2418 TRA-2.8626 TC3 -.2441 BAU .5114 SGT 1567.3 SGR 491.9 SG3 58.4 ST 695.6 SR 428.3 SS 608.8
 RDE -.9192 RRA .5244 RC3 -.0276 FAU .01021 RRT -.0517 RRF .0606 RTF -.8162 CRT 7104 CRS .7754 CST .9945
 FDE .6779 FRA 1.2584 FC3 -.0568 BSP 2626 SCB 1642.7 R23 -.0138 R13 .8163 LSA 980.8 MSA 274.9 SSA 17.1
 BDE 1.5450 BRA 2.9102 BC3 .2456 FSP -122 SG1 1567.6 SG2 491.2 TMA 178.97 EL1 770.2 EL2 272.3 ALF 27.32

LAUNCH DATE NOV 19 1968

FLIGHT TIME 100.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 22.769 GAL 19.99 AZL 87.09 MCA 76.01 SMA 103.92 ECC .52395 INC 2.9120 V1 30.139
 RP 107.48 LAP 2.83 LOP 132.72 VP 34.534 GAP -31.54 AZP 89.30 TAL 159.26 TAP 235.27 RCA 49.47 APO 158.37 V2 35.259
 RC 69.241 GL 5.19 GP -1.82 ZAL 47.34 ZAP 17.98 ETS 173.44 ZAE 129.50 ETE 189.96 ZAC 66.57 ETC 162.71 CLP 17.89

PLANETOCENTRIC CONIC

C3 144.310 VHL 12.013 DLA 8.58 RAL 6.77 RAD 6570.6 VEL 16.298 PTH 2.85 VHP 19.001 DPA -16.02 RAP 334.53 ECC 3.3750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 50 44 2947.18 -28.21 92.58 265.95 87.42 7 39 51 2347.2 -28.27 83.92
 90.00 20 58 28 5052.79 23.76 223.12 257.80 74.12 22 22 41 4452.8 21.35 215.28
 100.00 8 16 15 2671.39 -29.82 72.38 266.03 87.77 9 0 46 2071.4 -29.81 63.57
 100.00 22 15 39 4803.81 25.30 204.32 257.31 73.53 23 35 43 4203.8 22.80 196.42
 110.00 9 33 59 2428.11 -34.16 54.06 266.18 88.74 10 14 27 1828.1 -33.96 44.82
 110.00 23 14 24 4619.85 29.45 188.91 255.85 71.81 24 31 24 4019.9 26.69 180.81

DIFFERENTIAL CORRECTIONS

TDE-1.1533 TRA-2.7842 TC3 -.2278 BAU .4436 SGT 1551.1 SGR 488.8 SG3 62.2 ST 682.0 SR 424.8 SS 620.8
 RDE -.8777 RRA .5002 RC3 -.0308 FAU .01105 RRT -.0702 RRF .0668 RTF -.8299 CRT 6942 CRS .7741 CST .9924
 FDE .6903 FRA 1.2851 FC3 -.0663 BSP 5192 SCB 1626.3 R23 -.0022 R13 .8299 LSA 976.4 MSA 278.3 SSA 16.5
 BDE 1.4493 BRA 2.8288 BC3 .2299 FSP -164 SG1 1551.5 SG2 487.5 TMA 178.59 EL1 754.5 EL2 276.4 ALF 27.36

LAUNCH DATE NOV 19 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC
 RL 147.83 LAL .00 LOL 56.73 VL 23.127 GAL 19.18 AZL 87.02 HCA 79.25 SMA 105.28 ECC .50366 INC 2.9798 V1 30.139
 RP 107.48 LAP 2.93 LOP 135.97 VP 34.770 GAP -30.22 AZP 89.44 TAL 158.47 TAP 237.72 RCA 52.25 APO 158.30 V2 35.258
 RC 67.184 GL 5.63 GP -1.91 ZAL 46.56 ZAP 16.70 ETS 172.80 ZAE 130.19 ETE 190.62 ZAC 68.46 ETC 163.08 CLP 16.59

PLANETOCENTRIC CONIC
 C3 133.814 VHL 11.568 DLA 9.31 RAL 7.35 RAD 6570.4 VEL 15.973 PTH 2.82 VHP 18.292 DPA -15.42 RAP 336.46 ECC 3.2022
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 16 2956.70 -28.18 93.28 265.82 87.08 7 36 33 2356.7 -28.29 84.61
 90.00 21 6 36 5015.02 23.03 220.59 257.15 73.06 22 30 11 4415.0 20.49 212.84
 100.00 8 13 10 2679.65 -29.79 72.99 265.90 87.45 8 57 50 2079.6 -29.83 64.18
 100.00 22 23 23 4767.31 24.58 201.86 256.63 72.43 23 42 50 4167.3 21.94 194.05
 110.00 9 31 48 2433.62 -34.15 54.49 266.09 88.48 10 12 21 1833.6 -33.99 45.25
 110.00 23 21 15 4586.10 28.71 186.56 255.08 70.60 24 37 41 3986.1 25.80 178.59

DIFFERENTIAL CORRECTIONS
 TOE -1.1716 TRA -2.8110 TC3 -.2392 BAU .4322 SGT 1622.8 SGR 484.8 SG3 66.9 ST 718.5 SR 420.3 SS 646.0
 ROE -.8360 RRA .4770 RC3 -.0341 FAU .01120 RRT -.0684 RRF .0673 RTF -.8393 CRT .6953 CRS .7754 CST .9923
 FDE .7196 FRA 1.3285 FC3 -.0725 BSP 5210 SGB 1693.7 R23 -.0043 R13 .8394 LSA 1016.3 MSA 277.4 SSA 16.7
 BDE 1.4393 BRA 2.8512 BC3 .2416 FSP -174 SG1 1623.2 SG2 483.5 THA 178.72 EL1 785.1 EL2 276.4 ALF 25.52

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 19 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC
 RL 147.83 LAL .00 LOL 56.73 VL 23.464 GAL 18.40 AZL 86.95 HCA 82.50 SMA 106.60 ECC .48403 INC 3.0462 V1 30.139
 RP 107.48 LAP 3.02 LOP 139.22 VP 34.994 GAP -28.95 AZP 89.60 TAL 157.70 TAP 240.20 RCA 55.01 APO 158.20 V2 35.257
 RC 65.159 GL 6.10 GP -2.01 ZAL 45.83 ZAP 15.42 ETS 172.01 ZAE 130.96 ETE 191.33 ZAC 70.36 ETC 163.42 CLP 15.29

PLANETOCENTRIC CONIC
 C3 124.120 VHL 11.141 DLA 10.04 RAL 7.89 RAD 6570.3 VEL 15.667 PTH 2.79 VHP 17.603 DPA -14.81 RAP 338.38 ECC 3.0427
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 43 32 2966.11 -28.14 93.96 265.60 86.73 7 32 58 2366.1 -28.30 85.30
 90.00 21 14 38 4976.52 22.24 218.05 256.46 72.01 22 37 35 4376.5 19.58 210.39
 100.00 8 9 50 2687.75 -29.77 73.59 265.70 87.14 8 54 38 2087.7 -29.85 64.79
 100.00 22 31 1 4730.11 23.79 199.37 255.90 71.34 23 49 51 4130.1 21.02 191.67
 110.00 9 29 22 2438.89 -34.14 54.90 265.91 88.24 10 10 1 1838.9 -34.01 45.66
 110.00 23 27 59 4551.74 27.91 184.21 254.27 69.42 24 43 50 3951.7 24.86 176.37

DIFFERENTIAL CORRECTIONS
 TOE -1.1836 TRA -2.8293 TC3 -.2486 BAU .4172 SGT 1691.4 SGR 479.9 SG3 72.0 ST 753.2 SR 414.9 SS 671.6
 ROE -.7949 RRA .4539 RC3 -.0376 FAU .01142 RRT -.0679 RRF .0682 RTF -.8485 CRT .6954 CRS .7767 CST .9922
 FDE .7497 FRA 1.3729 FC3 -.0797 BSP 5380 SGB 1758.2 R23 -.0056 R13 .8486 LSA 1055.4 MSA 276.1 SSA 16.8
 BDE 1.4257 BRA 2.8654 BC3 .2514 FSP -188 SG1 1691.8 SG2 478.7 THA 178.80 EL1 814.5 EL2 275.7 ALF 23.86

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 19 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC
 RL 147.83 LAL .00 LOL 56.73 VL 23.781 GAL 17.65 AZL 86.89 HCA 85.75 SMA 107.90 ECC .46507 INC 3.1116 V1 30.139
 RP 107.49 LAP 3.10 LOP 142.47 VP 35.205 GAP -27.71 AZP 89.77 TAL 156.96 TAP 242.70 RCA 57.72 APO 158.09 V2 35.254
 RC 63.173 GL 6.58 GP -2.11 ZAL 45.15 ZAP 14.16 ETS 171.02 ZAE 131.83 ETE 192.10 ZAC 72.27 ETC 163.75 CLP 14.00

PLANETOCENTRIC CONIC
 C3 115.173 VHL 10.732 DLA 10.78 RAL 8.38 RAD 6570.2 VEL 15.379 PTH 2.75 VHP 16.934 DPA -14.20 RAP 340.30 ECC 2.8955
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 39 29 2975.49 -28.11 94.65 265.31 86.39 7 29 5 2375.5 -28.31 85.99
 90.00 21 22 37 4937.25 21.40 215.48 255.73 71.00 22 44 54 4337.3 18.61 207.92
 100.00 8 6 13 2695.78 -29.74 74.19 265.42 86.82 8 51 9 2095.8 -29.86 65.38
 100.00 22 38 35 4692.20 22.94 196.88 255.14 70.29 23 56 47 4092.2 20.04 189.28
 110.00 9 26 41 2444.00 -34.13 55.30 265.66 88.00 10 7 25 1844.0 -34.03 46.06
 110.00 23 34 36 4516.74 27.05 181.85 253.43 68.26 24 49 53 3916.7 23.86 174.14

DIFFERENTIAL CORRECTIONS
 TOE -1.1960 TRA -2.8454 TC3 -.2579 BAU .4022 SGT 1762.3 SGR 474.3 SG3 77.5 ST 789.4 SR 408.7 SS 698.3
 ROE -.7542 RRA .4312 RC3 -.0414 FAU .01167 RRT -.0672 RRF .0692 RTF -.8573 CRT .6958 CRS .7780 CST .9920
 FDE .7818 FRA 1.4192 FC3 -.0877 BSP 5548 SGB 1825.0 R23 -.0071 R13 .8573 LSA 1096.6 MSA 274.1 SSA 16.9
 BDE 1.4139 BRA 2.8779 BC3 .2612 FSP -203 SG1 1762.6 SG2 473.1 THA 178.88 EL1 845.7 EL2 274.0 ALF 22.28

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 19 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC
 RL 147.83 LAL .00 LOL 56.73 VL 24.080 GAL 16.94 AZL 86.82 HCA 88.99 SMA 109.17 ECC .44681 INC 3.1765 V1 30.139
 RP 107.50 LAP 3.18 LOP 145.72 VP 35.405 GAP -26.53 AZP 89.94 TAL 156.24 TAP 245.23 RCA 60.39 APO 157.95 V2 35.251
 RC 61.231 GL 7.09 GP -2.22 ZAL 44.52 ZAP 12.90 ETS 169.77 ZAE 132.80 ETE 192.93 ZAC 74.19 ETC 164.07 CLP 12.71

PLANETOCENTRIC CONIC
 C3 106.917 VHL 10.340 DLA 11.52 RAL 8.83 RAD 6570.1 VEL 15.108 PTH 2.72 VHP 16.283 DPA -13.58 RAP 342.22 ECC 2.7596
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 35 8 2984.96 -28.06 95.34 264.95 86.05 7 24 52 2385.0 -28.32 86.68
 90.00 21 30 34 4897.18 20.49 212.89 254.96 70.01 22 52 11 4297.2 17.58 205.42
 100.00 8 2 18 2703.83 -29.71 74.78 265.07 86.51 8 47 21 2103.8 -29.87 65.98
 100.00 22 46 5 4653.54 22.03 194.36 254.35 69.27 24 3 38 4053.5 19.01 186.87
 110.00 9 23 43 2449.04 -34.12 55.69 265.33 87.77 10 4 32 1849.0 -34.05 46.45
 110.00 23 41 8 4481.10 26.13 179.49 252.55 67.14 24 55 50 3881.1 22.81 171.91

DIFFERENTIAL CORRECTIONS
 TOE -1.2036 TRA -2.8545 TC3 -.2652 BAU .3845 SGT 1830.7 SGR 467.8 SG3 83.4 ST 824.4 SR 401.7 SS 725.6
 ROE -.7140 RRA .4090 RC3 -.0454 FAU .01198 RRT -.0677 RRF .0708 RTF -.8657 CRT .6955 CRS .7792 CST .9918
 FDE .8152 FRA 1.4669 FC3 -.0970 BSP 5831 SGB 1889.5 R23 -.0081 R13 .8658 LSA 1137.3 MSA 271.7 SSA 16.9
 BDE 1.3995 BRA 2.8836 BC3 .2690 FSP -221 SG1 1831.0 SG2 466.7 THA 178.94 EL1 875.9 EL2 271.6 ALF 20.82

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 19 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 243.277

RL 147.83 LAL .00 LOL 56.73 VL 24.361 GAL 16.26 AZL 86.76 MCA 92.24 SMA 110.41 ECC .42923 INC 3.2412 V1 30.139
 RP 107.51 LAP 3.24 LOP 148.97 VP 35.593 GAP -25.38 AZP 90.13 TAL 155.55 TAP 247.79 RCA 63.02 APO 157.80 V2 35.248
 RC 59.338 GL 7.63 GP -2.35 ZAL 43.94 ZAP 11.66 ETS 168.17 ZAE 133.87 ETE 193.83 ZAC 76.10 ETC 164.37 CLP 11.42

PLANETOCENTRIC CONIC

C3 99.306 VHL 9.965 DLA 12.28 RAL 9.23 RAD 6569.9 VEL 14.854 PTH 2.68 VHP 15.650 DPA -12.96 RAP 344.12 ECC 2.6343
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 30 25 2994.64 -28.02 96.04 264.51 85.70 7 20 20 2394.6 -28.32 87.39
 90.00 21 38 29 4856.27 19.51 210.29 254.17 69.06 22 59 25 4256.3 16.49 202.91
 100.00 7 58 3 2712.03 -29.67 75.39 264.65 86.19 8 43 15 2112.0 -29.88 66.59
 100.00 22 53 32 4614.11 21.06 191.84 253.53 68.28 24 10 26 4014.1 17.92 184.45
 110.00 9 20 28 2454.09 -34.11 56.09 264.93 87.54 10 1 23 1854.1 -34.07 46.84
 110.00 23 47 36 4444.81 25.15 177.12 251.66 66.05 25 1 41 3844.8 21.70 169.67

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2116 TRA -2.8611 TC3 -.2718 BAU .3669 SGT 1900.8 SGR 460.5 SG3 89.9 ST 860.6 SR 393.7 SS 754.3
 RDE -.6744 RRA .3873 RC3 -.0497 FAU .01233 RRT -.0685 RRF .0728 RTF -.8737 CRT .6954 CRS .7804 CST .9915
 FDE .8511 FRA 1.5171 FC3 -.1075 BSP 6113 SGB 1955.8 R23 -.0093 R13 .8738 LSA 1179.9 MSA 268.6 SSA 17.0
 BDE 1.3866 BRA 2.8872 BC3 .2763 FSP -241 SG1 1901.1 SG2 459.4 THA 178.99 EL1 907.6 EL2 268.3 ALF 19.41

LAUNCH DATE NOV 19 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 250.001

RL 147.83 LAL .00 LOL 56.73 VL 24.625 GAL 15.60 AZL 86.69 MCA 95.49 SMA 111.61 ECC .41235 INC 3.3062 V1 30.139
 RP 107.52 LAP 3.29 LOP 152.22 VP 35.770 GAP -24.27 AZP 90.32 TAL 154.89 TAP 250.38 RCA 65.59 APO 157.63 V2 35.243
 RC 57.501 GL 8.19 GP -2.49 ZAL 43.41 ZAP 10.42 ETS 166.09 ZAE 135.05 ETE 194.82 ZAC 78.02 ETC 164.65 CLP 10.13

PLANETOCENTRIC CONIC

C3 92.294 VHL 9.607 DLA 13.04 RAL 9.59 RAD 6569.8 VEL 14.616 PTH 2.65 VHP 15.035 DPA -12.35 RAP 346.03 ECC 2.5189
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 25 20 3004.66 -27.96 96.77 264.01 85.34 7 15 24 2404.7 -28.31 88.12
 90.00 21 46 24 4814.48 18.47 207.66 253.36 68.15 23 6 39 4214.5 15.35 200.38
 100.00 7 53 26 2720.49 -29.63 76.01 264.15 85.87 8 38 47 2120.5 -29.89 67.22
 100.00 23 0 59 4573.88 20.02 189.30 252.69 67.33 24 17 13 3973.9 16.78 182.01
 110.00 9 16 55 2459.28 -34.09 56.49 264.47 87.30 9 57 55 1859.3 -34.09 47.25
 110.00 23 53 59 4407.86 24.11 174.76 250.74 65.00 25 7 27 3807.9 20.54 167.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2247 TRA -2.8698 TC3 -.2797 BAU .3515 SGT 1977.0 SGR 452.4 SG3 96.9 ST 900.8 SR 384.8 SS 785.3
 RDE -.6353 RRA .3663 RC3 -.0542 FAU .01267 RRT -.0685 RRF .0750 RTF -.8811 CRT .6962 CRS .7817 CST .9914
 FDE .8908 FRA 1.5707 FC3 -.1189 BSP 6285 SGB 2028.1 R23 -.0114 R13 .8811 LSA 1227.2 MSA 264.7 SSA 17.0
 BDE 1.3797 BRA 2.8930 BC3 .2849 FSP -260 SG1 1977.3 SG2 451.3 THA 179.05 EL1 943.4 EL2 263.8 ALF 18.02

LAUNCH DATE NOV 19 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 256.753

RL 147.83 LAL .00 LOL 56.73 VL 24.874 GAL 14.98 AZL 86.63 MCA 98.73 SMA 112.78 ECC .39616 INC 3.3719 V1 30.139
 RP 107.54 LAP 3.33 LOP 155.47 VP 35.936 GAP -23.19 AZP 90.51 TAL 154.26 TAP 252.99 RCA 68.10 APO 157.45 V2 35.238
 RC 55.726 GL 8.77 GP -2.65 ZAL 42.93 ZAP 9.21 ETS 163.32 ZAE 136.34 ETE 195.92 ZAC 79.94 ETC 164.92 CLP 8.83

PLANETOCENTRIC CONIC

C3 85.837 VHL 9.265 DLA 13.81 RAL 9.90 RAD 6569.7 VEL 14.394 PTH 2.62 VHP 14.438 DPA -11.74 RAP 347.92 ECC 2.4127
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 50 3015.17 -27.90 97.53 263.44 84.96 7 10 5 2415.2 -28.31 88.89
 90.00 21 54 22 4771.77 17.37 205.01 252.52 67.28 23 13 53 4171.8 14.14 197.82
 100.00 7 48 27 2729.36 -29.59 76.67 263.60 85.52 8 33 57 2129.4 -29.89 67.88
 100.00 23 8 25 4532.82 18.93 186.74 251.82 66.42 24 23 58 3932.8 15.58 179.55
 110.00 9 13 2 2464.69 -34.07 56.91 263.94 87.05 9 54 7 1864.7 -34.10 47.67
 110.00 0 4 15 4370.25 23.01 172.39 249.81 63.99 1 17 6 3770.2 19.32 165.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2339 TRA -2.8721 TC3 -.2852 BAU .3342 SGT 2051.0 SGR 443.6 SG3 104.6 ST 940.0 SR 375.0 SS 817.4
 RDE -.5968 RRA .3461 RC3 -.0590 FAU .01309 RRT -.0700 RRF .0784 RTF -.8882 CRT .6963 CRS .7828 CST .9913
 FDE .9327 FRA 1.6265 FC3 -.1320 BSP 6552 SGB 2098.5 R23 -.0132 R13 .8883 LSA 1274.4 MSA 260.4 SSA 17.1
 BDE 1.3707 BRA 2.8929 BC3 .2912 FSP -283 SG1 2051.3 SG2 442.4 THA 179.09 EL1 978.4 EL2 258.6 ALF 16.72

LAUNCH DATE NOV 19 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 263.528

RL 147.83 LAL .00 LOL 56.73 VL 25.107 GAL 14.38 AZL 86.56 MCA 101.97 SMA 113.91 ECC .38065 INC 3.4387 V1 30.139
 RP 107.56 LAP 3.36 LOP 158.72 VP 36.092 GAP -22.16 AZP 90.71 TAL 153.66 TAP 255.63 RCA 70.55 APO 157.26 V2 35.232
 RC 54.021 GL 9.39 GP -2.82 ZAL 42.50 ZAP 8.03 ETS 159.57 ZAE 137.74 ETE 197.13 ZAC 81.86 ETC 165.18 CLP 7.52

PLANETOCENTRIC CONIC

C3 79.897 VHL 8.939 DLA 14.59 RAL 10.16 RAD 6569.6 VEL 14.186 PTH 2.58 VHP 13.858 DPA -11.14 RAP 349.81 ECC 2.3149
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 53 3026.35 -27.83 98.34 262.80 84.56 7 4 20 2426.4 -28.29 89.71
 90.00 22 2 22 4728.07 16.20 202.34 251.68 66.45 23 21 11 4128.1 12.88 195.23
 100.00 7 43 4 2738.78 -29.53 77.37 262.98 85.16 8 28 42 2138.8 -29.89 68.58
 100.00 23 15 53 4490.88 17.76 184.17 250.95 65.56 24 30 44 3890.9 14.32 177.08
 110.00 9 8 48 2470.47 -34.05 57.36 263.35 86.79 9 49 59 1870.5 -34.12 48.12
 110.00 0 10 34 4331.95 21.84 170.03 248.86 63.03 1 22 45 3731.9 18.05 162.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2439 TRA -2.8714 TC3 -.2896 BAU .3167 SGT 2126.2 SGR 433.9 SG3 112.9 ST 980.6 SR 364.1 SS 851.3
 RDE -.5589 RRA .3268 RC3 -.0640 FAU .01355 RRT -.0724 RRF .0828 RTF -.8950 CRT .6964 CRS .7838 CST .9911
 FDE .9784 FRA 1.6855 FC3 -.1468 BSP 6825 SGB 2170.0 R23 -.0153 R13 .8951 LSA 1324.1 MSA 255.5 SSA 17.1
 BDE 1.3637 BRA 2.8899 BC3 .2965 FSP -308 SG1 2126.5 SG2 432.7 THA 179.12 EL1 1015.1 EL2 252.4 ALF 15.48

LAUNCH DATE NOV 19 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 270.323

RL 147.83 LAL .00 LOL 56.73 VL 25.326 GAL 13.80 AZL 86.49 HCA 105.21 SMA 114.99 ECC .36582 INC 3.5071 V1 30.139
 RP 107.58 LAP 3.38 LOP 161.97 VP 36.238 GAP -21.15 AZP 90.92 TAL 153.10 TAP 258.31 RCA 72.93 APO 157.06 V2 35.226
 RC 52.393 GL 10.04 GP -3.01 ZAL 42.13 ZAP 6.90 ETS 154.33 ZAE 139.25 ETE 198.49 ZAC 83.77 ETC 163.44 CLP 6.21

PLANETOCENTRIC CONIC

C3 74.438 VHL 8.628 DLA 15.39 RAL 10.37 RAD 6569.4 VEL 13.992 PTH 2.55 VHP 13.294 DPA -10.56 RAP 351.69 ECC 2.2251
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 27 3038.40 -27.75 99.22 262.11 84.13 6 58 5 2438.4 -28.27 90.59
 90.00 22 10 29 4883.32 14.97 199.63 250.82 65.68 23 28 33 4083.3 11.56 192.61
 100.00 7 37 12 2748.93 -29.47 78.11 262.30 84.77 8 23 1 2148.9 -29.89 69.33
 100.00 23 23 25 4448.02 16.54 181.58 250.07 64.74 24 37 33 3848.0 13.00 174.58
 110.00 9 4 12 2476.78 -34.02 57.85 262.71 86.50 9 45 28 1876.8 -34.14 48.61
 110.00 0 16 51 4292.96 20.62 167.66 247.91 62.11 1 28 24 3693.0 16.73 160.70

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2539 TRA-2.8674 TC3 -.2925 BAU .2992 SGT 2202.0 SCR 423.5 SC3 122.0 ST 1022.1 SR 352.1 SS 887.2
 RDE -.5214 RRA .3085 RC3 -.0693 FAU .01406 RRT -.0761 RRF .0889 RTF -.9014 CRT .6964 CRS .7845 CST .9910
 FDE 1.0280 FRA 1.7479 FC3 -.1636 BSP 7102 SGB 2242.3 R23 -.0177 R13 .9015 LSA 1375.8 MSA 250.1 SSA 17.1
 BDE 1.3580 BRA 2.8840 BC3 .3006 FSP -335 SGI 2202.2 SG2 422.2 THA 179.13 EL1 1052.8 EL2 245.3 ALF 14.28

LAUNCH DATE NOV 19 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 277.133

RL 147.83 LAL .00 LOL 56.73 VL 25.531 GAL 13.25 AZL 86.42 HCA 108.45 SMA 116.04 ECC .35166 INC 3.5777 V1 30.139
 RP 107.60 LAP 3.39 LOP 165.22 VP 36.375 GAP -20.18 AZP 91.13 TAL 152.56 TAP 261.02 RCA 75.24 APO 156.85 V2 35.219
 RC 50.852 GL 10.73 GP -3.23 ZAL 41.82 ZAP 5.85 ETS 146.84 ZAE 140.88 ETE 200.02 ZAC 85.67 ETC 165.68 CLP 4.88

PLANETOCENTRIC CONIC

C3 89.427 VHL 8.332 DLA 16.20 RAL 10.53 RAD 6569.3 VEL 13.812 PTH 2.52 VHP 12.748 DPA -9.99 RAP 353.56 ECC 2.1426
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 28 3051.53 -27.66 100.16 261.36 83.66 6 51 19 2451.5 -28.25 91.55
 90.00 22 18 45 4837.43 13.66 196.89 249.96 64.95 23 36 2 4037.4 10.17 189.95
 100.00 7 30 52 2760.01 -29.40 78.93 261.57 84.35 8 16 52 2160.0 -29.87 70.16
 100.00 23 31 2 4404.18 15.24 178.97 249.18 63.97 24 44 26 3804.2 11.62 172.05
 110.00 8 59 10 2483.71 -33.99 58.39 262.02 86.18 9 40 34 1883.7 -34.15 49.15
 110.00 0 23 8 4253.33 19.34 165.30 246.96 61.25 1 34 2 3653.3 15.35 158.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2850 TRA-2.8612 TC3 -.2944 BAU .2820 SGT 2279.2 SCR 412.4 SC3 132.0 ST 1065.2 SR 339.0 SS 925.4
 RDE -.4845 RRA .2914 RC3 -.0748 FAU .01462 RRT -.0815 RRF .0869 RTF -.9075 CRT .6961 CRS .7848 CST .9909
 FDE 1.0824 FRA 1.8144 FC3 -.1824 BSP 7366 SGB 2316.3 R23 -.0205 R13 .9075 LSA 1430.4 MSA 244.2 SSA 17.0
 BDE 1.3546 BRA 2.8760 BC3 .3038 FSP -365 SGI 2279.5 SG2 411.0 THA 179.13 EL1 1092.4 EL2 237.3 ALF 13.12

LAUNCH DATE NOV 19 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 283.957

RL 147.83 LAL .00 LOL 56.73 VL 25.723 GAL 12.73 AZL 86.35 HCA 111.69 SMA 117.05 ECC .33816 INC 3.6509 V1 30.139
 RP 107.62 LAP 3.39 LOP 168.46 VP 36.503 GAP -19.24 AZP 91.35 TAL 152.06 TAP 263.76 RCA 77.47 APO 156.63 V2 35.211
 RC 49.405 GL 11.44 GP -3.47 ZAL 41.56 ZAP 4.96 ETS 136.00 ZAE 142.61 ETE 201.77 ZAC 87.57 ETC 165.92 CLP 3.55

PLANETOCENTRIC CONIC

C3 64.833 VHL 8.052 DLA 17.03 RAL 10.63 RAD 6569.2 VEL 13.645 PTH 2.49 VHP 12.218 DPA -9.45 RAP 355.42 ECC 2.0670
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 52 52 3066.02 -27.54 101.21 260.57 83.15 6 43 58 2466.0 -28.21 92.61
 90.00 22 27 12 4590.28 12.28 194.12 249.10 64.29 23 43 42 3990.3 8.73 187.24
 100.00 7 23 58 2772.26 -29.32 79.83 260.79 83.88 8 10 10 2172.3 -29.85 71.07
 100.00 23 38 47 4359.27 13.89 176.32 248.29 63.26 24 51 26 3759.3 10.19 169.49
 110.00 8 53 42 2491.49 -33.96 59.00 261.29 85.82 9 35 13 1891.5 -34.16 49.76
 110.00 0 29 28 4212.80 18.00 162.93 246.01 60.43 1 39 41 3612.8 13.92 156.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2772 TRA-2.8524 TC3 -.2951 BAU .2651 SGT 2357.5 SCR 400.6 SC3 142.9 ST 1109.8 SR 324.6 SS 966.3
 RDE -.4479 RRA .2757 RC3 -.0806 FAU .01524 RRT -.0892 RRF .1076 RTF -.9132 CRT .6953 CRS .7845 CST .9908
 FDE 1.1423 FRA 1.8853 FC3 -.2034 BSP 7626 SGB 2391.3 R23 -.0239 R13 .9132 LSA 1488.0 MSA 237.8 SSA 17.0
 BDE 1.3535 BRA 2.8657 BC3 .3059 FSP -398 SGI 2357.8 SG2 399.0 THA 179.11 EL1 1133.6 EL2 228.4 ALF 11.99

LAUNCH DATE NOV 19 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 290.788

RL 147.83 LAL .00 LOL 56.73 VL 25.903 GAL 12.23 AZL 86.27 HCA 114.93 SMA 118.02 ECC .32531 INC 3.7274 V1 30.139
 RP 107.65 LAP 3.38 LOP 171.71 VP 36.622 GAP -18.33 AZP 91.57 TAL 151.60 TAP 266.53 RCA 79.63 APO 156.41 V2 35.202
 RC 48.064 GL 12.20 GP -3.74 ZAL 41.36 ZAP 4.34 ETS 120.79 ZAE 144.44 ETE 203.78 ZAC 89.46 ETC 166.15 CLP 2.19

PLANETOCENTRIC CONIC

C3 60.626 VHL 7.786 DLA 17.87 RAL 10.69 RAD 6569.1 VEL 13.490 PTH 2.47 VHP 11.703 DPA -8.93 RAP 357.27 ECC 1.9977
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 44 35 3082.16 -27.41 102.37 259.72 82.58 6 35 57 2482.2 -28.15 93.78
 90.00 22 35 54 4541.71 10.83 191.29 248.25 63.68 23 51 36 3941.7 7.21 184.48
 100.00 7 16 27 2785.92 -29.21 80.83 259.97 83.36 8 2 53 2185.9 -29.82 72.08
 100.00 23 46 44 4313.19 12.46 173.65 247.41 62.61 24 58 37 3713.2 8.69 166.88
 110.00 8 47 44 2500.31 -33.91 59.68 260.51 85.42 9 29 24 1900.3 -34.17 50.45
 110.00 0 35 52 4171.56 16.59 160.55 245.06 59.68 1 45 23 3571.6 12.44 153.90

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2856 TRA-2.8360 TC3 -.2910 BAU .2460 SGT 2430.7 SCR 388.3 SC3 154.8 ST 1152.3 SR 308.9 SS 1009.0
 RDE -.4115 RRA .2615 RC3 -.0865 FAU .01597 RRT -.1016 RRF .1226 RTF -.9188 CRT .6929 CRS .7831 CST .9907
 FDE 1.2071 FRA 1.9597 FC3 -.2280 BSP 7994 SGB 2461.5 R23 -.0269 R13 .9188 LSA 1545.2 MSA 231.3 SSA 16.9
 BDE 1.3499 BRA 2.8480 BC3 .3036 FSP -436 SGI 2431.0 SG2 386.2 THA 179.05 EL1 1172.8 EL2 218.8 ALF 10.91

LAUNCH DATE NOV 19 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 297.626

RL 147.83 LAL .00 LOL 56.73 VL 26.071 GAL 11.75 AZL 86.19 MCA 118.17 SMA 118.95 ECC .31309 INC 3.8080 V1 30.139
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.733 GAP -17.44 AZP 91.80 TAL 151.17 TAP 269.33 RCA 81.70 APO 156.19 V2 35.194
 RC 46.839 GL 13.00 GP -4.06 ZAL 41.23 ZAP 4.14 ETS 101.91 ZAE 146.34 ETE 206.11 ZAC 91.34 ETC 166.39 CLP .81

PLANETOCENTRIC CONIC

C3 56.782 VHL 7.535 OLA 18.74 RAL 10.69 RAD 6569.0 VEL 13.347 PTH 2.44 VHP 11.205 DPA -8.46 RAP 359.12 ECC 1.9345
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 30 3100.35 -27.24 103.68 258.82 81.95 6 27 11 2500.3 -28.07 95.11
 90.00 22 44 58 4491.53 9.30 188.39 247.42 63.13 23 59 50 3891.5 5.63 181.64
 100.00 7 8 14 2801.32 -29.09 81.96 259.10 82.78 7 54 56 2201.3 -29.78 73.22
 100.00 23 54 56 4265.79 10.96 170.93 246.55 62.01 25 6 1 3665.8 7.13 164.23
 110.00 8 41 14 2510.39 -33.85 60.46 259.70 84.96 9 23 4 1910.4 -34.18 51.24
 110.00 0 42 21 4129.48 15.13 158.17 244.13 58.98 1 51 11 3529.5 10.91 151.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3012 TRA-2.8217 TC3 -.2877 BAU .2294 SGT 2510.0 SGR 375.5 SG3 168.0 ST 1200.4 SR 291.7 SS 1055.9
 RDE -.3754 RRA .2491 RC3 -.0927 FAU .01671 RRT -.1169 RRF .1418 RTF -.9240 CRT .6902 CRS .7806 CST .9908
 FDE 1.2804 FRA 2.0408 FC3 -.2548 BSP 8243 SGB 2537.9 R23 -.0316 R13 .9241 LSA 1609.5 MSA 224.1 SSA 16.7
 BDE 1.3543 BRA 2.8327 BC3 .3022 FSP -475 SG1 2510.4 SG2 372.9 THA 178.98 EL1 1217.7 EL2 208.1 ALF 9.81

LAUNCH DATE NOV 19 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 304.467

RL 147.83 LAL .00 LOL 56.73 VL 26.229 GAL 11.30 AZL 86.11 MCA 121.40 SMA 119.83 ECC .30149 INC 3.8937 V1 30.139
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.835 GAP -16.59 AZP 92.03 TAL 150.77 TAP 272.17 RCA 83.70 APO 155.96 V2 35.184
 RC 45.742 GL 13.84 GP -4.41 ZAL 41.16 ZAP 4.45 ETS 83.09 ZAE 148.31 ETE 208.84 ZAC 93.20 ETC 166.63 CLP -.59

PLANETOCENTRIC CONIC

C3 53.277 VHL 7.299 OLA 19.64 RAL 10.63 RAD 6568.9 VEL 13.215 PTH 2.41 VHP 10.722 DPA -8.03 RAP .95 ECC 1.8768
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 25 31 3121.02 -27.03 105.15 257.88 81.24 6 17 32 2521.0 -27.97 96.61
 90.00 22 54 29 4439.42 7.69 185.42 246.62 62.66 24 8 29 3839.4 3.96 178.72
 100.00 6 59 14 2818.83 -28.93 83.24 258.20 82.13 7 46 13 2218.8 -29.72 74.52
 100.00 0 7 24 4216.85 9.38 168.15 245.71 61.49 1 17 40 3616.9 5.50 161.51
 110.00 8 34 7 2521.98 -33.78 61.36 258.87 84.43 9 16 9 1922.0 -34.18 52.14
 110.00 0 49 0 4086.46 13.61 155.77 243.21 58.34 1 57 7 3486.5 9.32 149.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3101 TRA-2.7982 TC3 -.2788 BAU .2107 SGT 2581.1 SGR 362.5 SG3 182.3 ST 1243.9 SR 272.8 SS 1104.7
 RDE -.3391 RRA .2387 RC3 -.0992 FAU .01761 RRT -.1404 RRF .1684 RTF -.9289 CRT .6837 CRS .7756 CST .9906
 FDE 1.3599 FRA 2.1257 FC3 -.2862 BSP 8627 SGB 2606.5 R23 -.0358 R13 .9290 LSA 1671.7 MSA 217.3 SSA 16.5
 BDE 1.3533 BRA 2.8083 BC3 .2959 FSP -522 SG1 2581.6 SG2 358.8 THA 178.85 EL1 1258.2 EL2 196.8 ALF 8.74

LAUNCH DATE NOV 19 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 311.307

RL 147.83 LAL .00 LOL 56.73 VL 26.376 GAL 10.87 AZL 86.01 MCA 124.63 SMA 120.67 ECC .29050 INC 3.9854 V1 30.139
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.931 GAP -15.76 AZP 92.27 TAL 150.41 TAP 275.04 RCA 85.62 APO 155.73 V2 35.174
 RC 44.782 GL 14.74 GP -4.82 ZAL 41.16 ZAP 5.22 ETS 68.07 ZAE 150.30 ETE 212.06 ZAC 95.04 ETC 166.88 CLP -2.01

PLANETOCENTRIC CONIC

C3 50.088 VHL 7.077 OLA 20.57 RAL 10.51 RAD 6568.8 VEL 13.094 PTH 2.39 VHP 10.254 DPA -7.66 RAP 2.77 ECC 1.8243
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 27 3144.79 -26.78 106.85 256.90 80.42 6 6 51 2544.8 -27.83 98.34
 90.00 23 4 37 4384.99 5.97 182.34 245.85 62.27 24 17 42 3785.0 2.22 175.67
 100.00 6 49 18 2838.91 -28.73 84.70 257.25 81.38 7 36 37 2238.9 -29.63 76.01
 100.00 0 16 23 4166.11 7.72 165.30 244.90 61.03 1 25 49 3566.1 3.80 158.71
 110.00 8 26 19 2535.40 -33.69 62.40 258.01 83.83 9 8 34 1935.4 -34.18 53.19
 110.00 0 55 51 4042.38 12.02 153.34 242.32 57.76 2 3 14 3442.4 7.68 146.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3204 TRA-2.7704 TC3 -.2662 BAU .1918 SGT 2650.1 SGR 349.5 SG3 198.0 ST 1288.1 SR 252.1 SS 1156.9
 RDE -.3024 RRA .2305 RC3 -.1059 FAU .01863 RRT -.1721 RRF .2038 RTF -.9337 CRT .6738 CRS .7674 CST .9906
 FDE 1.4481 FRA 2.2160 FC3 -.3220 BSP 9036 SGB 2673.1 R23 -.0410 R13 .9338 LSA 1736.9 MSA 210.3 SSA 16.2
 BDE 1.3546 BRA 2.7800 BC3 .2865 FSP -575 SG1 2650.8 SG2 344.2 THA 178.68 EL1 1299.5 EL2 184.6 ALF 7.67

LAUNCH DATE NOV 19 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 318.145

RL 147.83 LAL .00 LOL 56.73 VL 26.513 GAL 10.45 AZL 85.92 MCA 127.86 SMA 121.47 ECC .28010 INC 4.0845 V1 30.139
 RP 107.77 LAP 3.22 LOP 184.67 VP 37.019 GAP -14.95 AZP 92.51 TAL 150.08 TAP 277.95 RCA 87.45 APO 155.50 V2 35.164
 RC 43.971 GL 15.68 GP -5.29 ZAL 41.23 ZAP 6.32 ETS 57.52 ZAE 152.27 ETE 215.88 ZAC 96.87 ETC 167.14 CLP -3.47

PLANETOCENTRIC CONIC

C3 47.199 VHL 6.870 OLA 21.53 RAL 10.33 RAD 6568.8 VEL 12.983 PTH 2.37 VHP 9.802 DPA -7.35 RAP 4.59 ECC 1.7768
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 2 3 3172.44 -26.45 108.80 255.87 79.50 5 54 56 2572.4 -27.63 100.34
 90.00 23 15 34 4327.64 4.15 179.11 245.13 61.96 24 27 41 3727.6 .37 172.47
 100.00 6 38 17 2862.17 -28.49 86.38 256.27 80.53 7 25 59 2262.2 -29.50 77.73
 100.00 0 25 57 4113.15 5.96 162.35 244.13 60.65 1 34 30 3513.2 2.01 155.80
 110.00 8 17 44 2551.02 -33.57 63.60 257.12 83.12 9 0 15 1951.0 -34.15 54.41
 110.00 1 2 59 3997.06 10.36 150.88 241.45 57.24 2 9 36 3397.1 5.97 144.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3344 TRA-2.7413 TC3 -.2523 BAU .1744 SGT 2720.0 SGR 337.1 SG3 215.4 ST 1335.0 SR 229.3 SS 1213.7
 RDE -.2651 RRA .2250 RC3 -.1129 FAU .01972 RRT -.2137 RRF .2499 RTF -.9381 CRT .6583 CRS .7538 CST .9906
 FDE 1.5479 FRA 2.3136 FC3 -.3618 BSP 9397 SGB 2740.8 R23 -.0476 R13 .9383 LSA 1807.3 MSA 203.1 SSA 15.9
 BDE 1.3605 BRA 2.7505 BC3 .2764 FSP -633 SG1 2721.0 SG2 329.2 THA 178.46 EL1 1343.6 EL2 171.5 ALF 6.56

LAUNCH DATE NOV 19 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 324.975

RL 147.83 LAL .00 LOL 56.73 VL 26.641 GAL 10.06 AZL 85.81 HCA 131.09 SMA 122.23 ECC .27026 INC 4.1925 V1 30.139
 RP 107.80 LAP 3.16 LOP 187.90 VP 37.100 GAP -14.17 AZP 92.76 TAL 149.79 TAP 280.88 RCA 89.20 APO 155.27 V2 35.153
 RC 43.319 GL 16.69 GP -5.83 ZAL 41.38 ZAP 7.65 ETS 50.44 ZAE 154.15 ETE 220.43 ZAC 98.68 ETC 167.43 CLP -4.96

PLANETOCENTRIC CONIC

C3 44.587 VML 6.677 DLA 22.53 RAL 10.08 RAD 6568.7 VEL 12.882 PTH 2.35 VHP 9.365 DPA -7.13 RAP 6.40 ECC 1.7338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 0 3205.06 -26.02 111.10 254.77 78.42 5 41 25 2605.1 -27.36 102.68
 90.00 23 27 37 4266.45 2.18 175.69 244.47 61.76 24 38 43 3666.4 -1.61 169.06
 100.00 6 25 55 2889.37 -28.16 88.34 255.24 79.55 7 14 4 2289.4 -29.32 79.73
 100.00 0 36 20 4057.36 4.09 159.26 243.41 60.36 1 43 57 3457.4 .12 152.73
 110.00 8 8 14 2569.28 -33.41 65.00 256.22 82.31 8 51 3 1969.3 -34.11 55.83
 110.00 1 10 30 3950.22 8.63 148.36 240.62 56.79 2 16 20 3350.2 4.20 142.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.3143 TRA -2.6727 TC3 -.2034 BAU .1408
 RDE -.2263 RRA .2228 RC3 -.1200 FAU .02164
 FDE 1.6446 FRA 2.4021 FC3 -.4201 BSP 10611
 BOE 1.3336 BRA 2.6820 BC3 .2361 FSP -728

SGT 2740.4 SGR 325.9 SG3 233.2
 RRT -.2813 RRF .3156 RTF -.9435
 SGB 2759.7 R23 -.0486 R13 .9437
 SG1 2742.0 SG2 312.6 THA 178.06

ST 1351.5 SR 204.0 SS 1263.9
 CRT .6269 CRS .7296 CST .9900
 LSA 1851.0 MSA 198.3 SSA 15.0
 EL1 1357.6 EL2 158.2 ALF 5.48

LAUNCH DATE NOV 19 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 331.810

RL 147.83 LAL .00 LOL 56.73 VL 26.760 GAL 9.69 AZL 85.69 HCA 134.32 SMA 122.95 ECC .26102 INC 4.3118 V1 30.139
 RP 107.84 LAP 3.08 LOP 191.13 VP 37.175 GAP -13.42 AZP 93.02 TAL 149.53 TAP 283.85 RCA 90.86 APO 155.04 V2 35.141
 RC 42.834 GL 17.76 GP -6.47 ZAL 41.60 ZAP 9.16 ETS 45.76 ZAE 155.87 ETE 225.82 ZAC 100.47 ETC 167.75 CLP -6.50

PLANETOCENTRIC CONIC

C3 42.265 VML 6.501 DLA 23.57 RAL 9.77 RAD 6568.6 VEL 12.792 PTH 2.33 VHP 8.945 DPA -7.01 RAP 8.21 ECC 1.6956
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 51 3244.40 -25.46 113.84 253.63 77.16 5 25 55 2644.4 -26.97 105.50
 90.00 23 41 17 4200.16 .04 171.99 243.92 61.68 24 51 17 3600.2 -3.74 165.35
 100.00 6 11 55 2921.75 -27.74 90.66 254.18 78.40 7 0 37 2321.7 -29.06 82.10
 100.00 0 47 50 3998.05 2.09 156.00 242.78 60.17 1 54 28 3398.0 -1.89 149.48
 110.00 7 57 41 2590.87 -33.20 66.66 255.31 81.35 8 40 52 1990.9 -34.04 57.52
 110.00 1 18 34 3901.69 6.81 145.78 239.86 56.42 2 23 36 3301.7 2.35 139.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4494 TRA -2.7548 TC3 -.2930 BAU .1808
 RDE -.1869 RRA .2232 RC3 -.1286 FAU .02048
 FDE 1.8266 FRA 2.5703 FC3 -.4196 BSP 8159
 BOE 1.4614 BRA 2.7638 BC3 .3200 FSP -689

SGT 2965.4 SGR 318.0 SG3 259.2
 RRT -.3122 RRF .3737 RTF -.9438
 SGB 2982.4 R23 -.0800 R13 .9441
 SG1 2967.1 SG2 302.0 THA 178.06

ST 1504.4 SR 176.9 SS 1369.8
 CRT .5985 CRS .6931 CST .9921
 LSA 2033.8 MSA 185.3 SSA 15.9
 EL1 1508.2 EL2 141.4 ALF 4.06

LAUNCH DATE NOV 19 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 338.624

RL 147.83 LAL .00 LOL 56.73 VL 26.870 GAL 9.34 AZL 85.56 HCA 137.54 SMA 123.63 ECC .25229 INC 4.4447 V1 30.139
 RP 107.87 LAP 3.00 LOP 194.36 VP 37.243 GAP -12.68 AZP 93.28 TAL 149.30 TAP 286.85 RCA 92.44 APO 154.82 V2 35.129
 RC 42.524 GL 18.91 GP -7.22 ZAL 41.91 ZAP 10.82 ETS 42.69 ZAE 157.31 ETE 232.11 ZAC 102.23 ETC 168.11 CLP -8.08

PLANETOCENTRIC CONIC

C3 40.181 VML 6.339 DLA 24.67 RAL 9.37 RAD 6568.5 VEL 12.710 PTH 2.31 VHP 8.539 DPA -7.01 RAP 10.03 ECC 1.6613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 12 37 3293.07 -24.68 117.19 252.37 75.65 5 7 30 2693.1 -26.41 108.95
 90.00 0 1 16 4125.97 -2.35 167.85 243.49 61.77 1 10 2 3526.0 -6.11 161.18
 100.00 5 55 41 2960.80 -27.18 93.42 253.04 77.05 6 45 2 2360.8 -28.69 84.94
 100.00 1 0 53 3933.48 -1.10 152.46 242.24 60.11 2 6 27 3333.5 -4.08 145.93
 110.00 7 45 45 2616.42 -32.92 68.60 254.37 80.23 8 29 22 2016.4 -33.92 59.50
 110.00 1 27 18 3850.63 4.88 143.09 239.15 56.12 2 31 29 3250.6 .39 136.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4346 TRA -2.6797 TC3 -.2394 BAU .1481
 RDE -.1435 RRA .2289 RC3 -.1368 FAU .02261
 FDE 1.9564 FRA 2.6745 FC3 -.4871 BSP 9356
 BOE 1.4418 BRA 2.6894 BC3 .2758 FSP -797

SGT 2979.7 SGR 314.2 SG3 281.1
 RRT -.4123 RRF .4728 RTF -.9486
 SGB 2996.2 R23 -.0857 R13 .9490
 SG1 2982.5 SG2 286.0 THA 177.49

ST 1523.5 SR 146.7 SS 1431.5
 CRT .5085 CRS .6141 CST .9916
 LSA 2087.8 MSA 181.1 SSA 14.8
 EL1 1525.3 EL2 126.2 ALF 2.82

LAUNCH DATE NOV 19 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 345.430

RL 147.83 LAL .00 LOL 56.73 VL 26.973 GAL 9.01 AZL 85.40 HCA 140.76 SMA 124.27 ECC .24409 INC 4.5951 V1 30.139
 RP 107.91 LAP 2.90 LOP 197.59 VP 37.306 GAP -11.97 AZP 93.56 TAL 149.11 TAP 289.87 RCA 93.94 APO 154.60 V2 35.117
 RC 42.392 GL 20.16 GP -8.11 ZAL 42.32 ZAP 12.62 ETS 40.79 ZAE 158.38 ETE 239.26 ZAC 103.97 ETC 168.54 CLP -9.71

PLANETOCENTRIC CONIC

C3 38.356 VML 6.193 DLA 25.84 RAL 8.88 RAD 6568.5 VEL 12.638 PTH 2.29 VHP 8.150 DPA -7.16 RAP 11.85 ECC 1.6312
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 48 43 3356.48 -23.54 121.49 250.94 73.79 4 44 39 2756.5 -25.54 113.39
 90.00 0 21 18 4039.08 -5.13 162.98 243.29 62.11 1 28 37 3439.1 -8.83 156.25
 100.00 5 36 23 3009.38 -26.39 96.82 251.80 75.43 6 26 32 2409.4 -28.13 88.45
 100.00 1 16 19 3861.41 -2.54 148.50 241.86 60.21 2 20 41 3261.4 -6.49 141.94
 110.00 7 32 10 2647.11 -32.54 70.91 253.41 78.91 8 16 17 2047.1 -33.73 61.88
 110.00 1 37 2 3796.44 2.81 140.25 238.52 55.92 2 40 18 3196.4 -1.68 134.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4598 TRA -2.6373 TC3 -.2182 BAU .1346
 RDE -.0964 RRA .2396 RC3 -.1460 FAU .02405
 FDE 2.1248 FRA 2.8043 FC3 -.5429 BSP 9671
 BOE 1.4629 BRA 2.6481 BC3 .2625 FSP -879

SGT 3040.7 SGR 318.3 SG3 307.0
 RRT -.5150 RRF .5803 RTF -.9521
 SGB 3057.3 R23 -.1003 R13 .9526
 SG1 3045.2 SG2 272.4 THA 176.89

ST 1576.5 SR 115.9 SS 1512.4
 CRT .3302 CRS .4469 CST .9918
 LSA 2180.6 MSA 175.6 SSA 14.0
 EL1 1576.9 EL2 109.4 ALF 1.40

LAUNCH DATE NOV 19 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.068 GAL 8.69 AZL 85.23 MCA 143.98 SMA 124.87 ECC .23640 INC 4.7676 V1 30.139
 RP 107.95 LAP 2.80 LOP 200.81 VP 37.363 GAP -11.27 AZP 93.86 TAL 148.95 TAP 292.93 RCA 95.35 APO 154.39 V2 35.105
 RC 42.442 GL 21.51 GP -9.19 ZAL 42.83 ZAP 14.60 ETS 39.75 ZAE 158.94 ETE 247.06 ZAC 105.68 ETC 169.05 CLP -11.39

PLANETOCENTRIC CONIC

C3 36.784 VHL 6.065 DLA 27.09 RAL 8.30 RAD 6568.4 VEL 12.576 PTH 2.28 VHP 7.779 DPA -7.51 RAP 13.69 ECC 1.6054
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 15 47 3448.40 -21.66 127.57 249.15 71.30 4 13 16 2848.4 -24.01 119.69
 90.00 0 49 34 3926.01 -8.69 156.58 243.49 62.94 1 55 0 3326.0 -12.25 149.71
 100.00 5 12 20 3072.68 -25.23 101.16 250.39 73.42 6 3 33 2472.7 -27.26 92.95
 100.00 1 35 42 3776.96 -5.39 143.85 241.71 60.55 2 38 39 3177.0 -9.27 137.21
 110.00 7 16 22 2684.56 -32.02 73.71 252.40 77.34 8 1 7 2084.6 -33.43 64.76
 110.00 1 48 10 3737.85 .58 137.19 238.01 55.82 2 50 27 3137.9 -3.91 130.98

DIFFERENTIAL CORRECTIONS

TDE-1.4882 TRA-2.5899 TC3 -.1937 BAU .1224
 RDE -.0434 RRA .2567 RC3 -.1562 FAU .02564
 FDE 2.3178 FRA 2.9399 FC3 -.6033 BSP 9999
 BDE 1.4888 BRA 2.6025 BC3 .2489 FSP -970

MID-COURSE EXECUTION ACCURACY

SGT 3095.8 SGR 334.3 SG3 335.3
 RRT -.6244 RRF .6925 RTF -.9554
 SGB 3113.8 R23 -.1173 R13 .9561
 SG1 3102.8 SG2 260.5 THA 176.11

ORBIT DETERMINATION ACCURACY

ST 1629.8 SR 91.6 SS 1600.4
 CRT -.0647 CRS .0606 CST .9919
 LSA 2279.6 MSA 171.1 SSA 13.1
 EL1 1629.8 EL2 91.4 ALF 179.79

LAUNCH DATE NOV 19 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.156 GAL 8.40 AZL 85.03 MCA 147.20 SMA 125.43 ECC .22920 INC 4.9688 V1 30.139
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.415 GAP -10.60 AZP 94.18 TAL 148.81 TAP 296.01 RCA 96.68 APO 154.18 V2 35.092
 RC 42.671 GL 23.00 GP -10.50 ZAL 43.47 ZAP 16.76 ETS 39.42 ZAE 158.91 ETE 255.06 ZAC 107.37 ETC 169.68 CLP -13.14

PLANETOCENTRIC CONIC

C3 35.475 VHL 5.956 DLA 28.44 RAL 7.60 RAD 6568.4 VEL 12.524 PTH 2.27 VHP 7.426 DPA -8.09 RAP 15.57 ECC 1.5838
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.25 1 36 54 3752.52 -16.04 147.49 245.55 66.20 2 39 27 3152.5 -19.13 140.16
 92.75 2 22 52 3603.58 -16.03 136.59 245.54 66.19 3 22 55 3003.6 -19.11 129.26
 100.00 4 39 22 3163.82 -23.32 107.26 248.60 70.75 5 32 6 2563.8 -25.73 99.29
 100.00 2 3 5 3667.52 -9.01 137.74 242.00 61.38 3 4 13 3067.5 -12.76 130.96
 110.00 6 57 32 2731.32 -31.27 77.15 251.31 75.43 7 43 3 2131.3 -32.95 68.33
 110.00 2 1 25 3672.78 -1.91 133.79 237.66 55.86 3 2 37 3072.8 -6.38 127.56

DIFFERENTIAL CORRECTIONS

TDE-1.5271 TRA-2.5431 TC3 -.1729 BAU .1143
 RDE .0181 RRA .2818 RC3 -.1678 FAU .02715
 FDE 2.5444 FRA 3.0842 FC3 -.6625 BSP 10205
 BDE 1.5272 BRA 2.5587 BC3 .2410 FSP -1063

MID-COURSE EXECUTION ACCURACY

SGT 3152.9 SGR 367.8 SG3 366.5
 RRT -.7260 RRF .7949 RTF -.9585
 SGB 3174.3 R23 -.1375 R13 .9594
 SG1 3164.3 SG2 252.0 THA 175.13

ORBIT DETERMINATION ACCURACY

ST 1689.6 SR 94.3 SS 1699.5
 CRT -.6447 CRS -.5458 CST .9922
 LSA 2392.4 MSA 167.5 SSA 12.0
 EL1 1690.7 EL2 72.0 ALF 177.94

LAUNCH DATE NOV 19 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.237 GAL 8.12 AZL 84.79 MCA 150.41 SMA 125.96 ECC .22249 INC 5.2082 V1 30.139
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.462 GAP -9.95 AZP 94.53 TAL 148.71 TAP 299.12 RCA 97.94 APO 153.99 V2 35.080
 RC 43.078 GL 24.65 GP -12.12 ZAL 44.25 ZAP 19.16 ETS 39.70 ZAE 158.21 ETE 262.69 ZAC 109.04 ETC 170.48 CLP -14.96

PLANETOCENTRIC CONIC

C3 34.448 VHL 5.869 DLA 29.92 RAL 6.75 RAD 6568.4 VEL 12.483 PTH 2.26 VHP 7.095 DPA -8.99 RAP 17.52 ECC 1.5669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.92 0 34 39 3934.70 -17.04 161.39 244.60 65.03 1 40 13 3334.7 -20.26 154.07
 100.08 3 18 23 3406.57 -17.02 122.54 244.59 65.02 4 15 9 2806.6 -20.25 115.23
 79.92 0 34 39 3934.70 -17.04 161.39 244.60 65.03 1 40 13 3334.7 -20.26 154.07
 100.08 3 18 23 3406.57 -17.02 122.54 244.59 65.02 4 15 9 2806.6 -20.25 115.23
 110.00 6 34 5 2791.96 -30.15 81.51 250.06 73.07 7 20 37 2192.0 -32.17 72.88
 110.00 2 18 6 3597.30 -4.79 129.84 237.58 56.11 3 18 4 2997.3 -9.21 123.54

DIFFERENTIAL CORRECTIONS

TDE-1.5705 TRA-2.4885 TC3 -.1481 BAU .1078
 RDE .0919 RRA .3168 RC3 -.1812 FAU .02877
 FDE 2.8048 FRA 3.2267 FC3 -.7231 BSP 10472
 BDE 1.5732 BRA 2.5086 BC3 .2341 FSP -1168

MID-COURSE EXECUTION ACCURACY

SGT 3199.4 SGR 425.0 SG3 399.9
 RRT -.8094 RRF .8759 RTF -.9613
 SGB 3227.5 R23 -.1585 R13 .9627
 SG1 3217.9 SG2 248.1 THA 173.83

ORBIT DETERMINATION ACCURACY

ST 1748.5 SR 139.8 SS 1806.7
 CRT -.9307 CRS -.8799 CST .9924
 LSA 2512.7 MSA 165.3 SSA 10.8
 EL1 1753.4 EL2 51.0 ALF 175.74

LAUNCH DATE NOV 19 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.312 GAL 7.86 AZL 84.50 MCA 153.62 SMA 126.45 ECC .21624 INC 5.5000 V1 30.139
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.505 GAP -9.31 AZP 94.93 TAL 148.63 TAP 302.25 RCA 99.11 APO 153.80 V2 35.067
 RC 43.658 GL 26.51 GP -14.15 ZAL 45.22 ZAP 21.87 ETS 40.55 ZAE 156.78 ETE 269.42 ZAC 110.68 ETC 171.50 CLP -16.84

PLANETOCENTRIC CONIC

C3 33.745 VHL 5.809 DLA 31.56 RAL 5.72 RAD 6568.3 VEL 12.455 PTH 2.25 VHP 6.790 DPA -10.30 RAP 19.57 ECC 1.5554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.44 23 54 4 4032.54 -18.06 169.24 243.67 63.67 25 1 17 3432.5 -21.45 161.96
 104.56 3 46 49 3298.32 -18.05 114.94 243.67 63.66 4 41 47 2698.3 -21.44 107.66
 75.44 23 54 4 4032.54 -18.06 169.24 243.67 63.67 25 1 17 3432.5 -21.45 161.96
 104.56 3 46 49 3298.32 -18.05 114.94 243.67 63.66 4 41 47 2698.3 -21.44 107.66
 110.00 6 2 43 2876.39 -28.33 87.41 248.44 70.01 6 50 39 2276.4 -30.78 79.07
 110.00 2 41 17 3502.46 -8.36 124.83 237.98 56.73 3 39 40 2902.5 -12.68 118.39

DIFFERENTIAL CORRECTIONS

TDE-1.6272 TRA-2.4310 TC3 -.1262 BAU .1055
 RDE .1845 RRA .3645 RC3 -.1968 FAU .03026
 FDE 3.1097 FRA 3.3639 FC3 -.7763 BSP 10679
 BDE 1.6376 BRA 2.4582 BC3 .2338 FSP -1277

MID-COURSE EXECUTION ACCURACY

SGT 3242.8 SGR 513.3 SG3 435.3
 RRT -.8687 RRF .9310 RTF -.9639
 SGB 3283.2 R23 -.1788 R13 .9658
 SG1 3273.5 SG2 251.9 THA 172.12

ORBIT DETERMINATION ACCURACY

ST 1813.4 SR 221.8 SS 1925.5
 CRT -.9918 CRS -.9701 CST .9927
 LSA 2649.2 MSA 164.5 SSA 9.5
 EL1 1826.7 EL2 28.1 ALF 173.08

LAUNCH DATE NOV 19 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.381 GAL 7.62 AZL 84.13 MCA 156.83 SMA 126.91 ECC .21044 INC 5.8659 V1 30.139
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.543 GAP -8.69 AZP 95.40 TAL 148.57 TAP 305.40 RCA 100.20 APO 153.61 V2 35.053
 RC 44.405 GL 28.66 GP -16.76 ZAL 46.42 ZAP 24.98 ETS 41.99 ZAE 154.56 ETE 274.88 ZAC 112.31 ETC 172.87 CLP -18.79

PLANETOCENTRIC CONIC

C3 33.441 VHL 5.783 OLA 33.43 RAL 4.45 RAD 6568.3 VEL 12.442 PTH 2.25 VHP 6.519 DPA -12.16 RAP 21.81 ECC 1.5504
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.45 23 22 43 4111.89 -19.12 175.88 242.79 62.04 24 31 15 3511.9 -22.70 168.64
 108.55 4 8 0 3214.41 -19.11 109.09 242.78 62.04 5 1 35 2614.4 -22.69 101.85
 71.45 23 22 43 4111.89 -19.12 175.88 242.79 62.04 24 31 15 3511.9 -22.70 168.64
 108.55 4 8 0 3214.41 -19.11 109.09 242.78 62.04 5 1 35 2614.4 -22.69 101.85
 110.00 5 11 15 3020.63 -24.60 96.96 245.69 65.48 6 1 36 2420.6 -27.69 89.16
 110.00 3 22 34 3353.67 -13.80 116.74 239.62 58.41 4 18 28 2753.7 -17.88 110.00

DIFFERENTIAL CORRECTIONS

TDE-1.7001 TRA-2.3682 TC3 -.1061 BAU .1071
 ROE .3056 RRA .4285 RC3 -.2148 FAU .03148
 FDE 3.4637 FRA 3.4798 FC3 -.8149 BSP 10878
 BOE 1.7273 BRA 2.4067 BC3 .2396 FSP -1387

MID-COURSE EXECUTION ACCURACY

SGT 3279.7 SGR 642.0 SG3 471.1
 RRT -.9070 RRF .9640 RTF -.9662
 SGB 3342.0 R23 -.1944 R13 .9691
 SG1 3331.4 SG2 266.2 THA 169.87

ORBIT DETERMINATION ACCURACY

ST 1883.8 SR 339.2 SS 2055.3
 CRT -.9997 CRS -.9927 CST .9930
 LSA 2803.7 MSA 165.3 SSA 8.0
 EL1 1914.1 EL2 8.0 ALF 169.80

LAUNCH DATE NOV 19 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.445 GAL 7.39 AZL 83.66 MCA 160.04 SMA 127.33 ECC .20507 INC 6.3417 V1 30.139
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.576 GAP -8.09 AZP 95.96 TAL 148.53 TAP 308.56 RCA 101.22 APO 153.44 V2 35.040
 RC 45.309 GL 31.20 GP -20.17 ZAL 47.94 ZAP 28.66 ETS 44.05 ZAE 151.42 ETE 278.95 ZAC 113.91 ETC 174.73 CLP -20.80

PLANETOCENTRIC CONIC

C3 33.682 VHL 5.804 OLA 35.59 RAL 2.83 RAD 6568.3 VEL 12.452 PTH 2.25 VHP 6.298 DPA -14.77 RAP 24.35 ECC 1.5543
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.48 22 52 47 4184.89 -20.18 182.23 241.94 60.04 24 2 32 3584.9 -24.01 175.06
 112.52 4 24 58 3145.03 -20.17 104.28 241.93 60.03 5 17 23 2545.0 -24.00 97.11
 67.48 22 52 47 4184.89 -20.18 182.23 241.94 60.04 24 2 32 3584.9 -24.01 175.06
 112.52 4 24 58 3145.03 -20.17 104.28 241.93 60.03 5 17 23 2545.0 -24.00 97.11
 67.48 22 52 47 4184.89 -20.18 182.23 241.94 60.04 24 2 32 3584.9 -24.01 175.06
 112.52 4 24 58 3145.03 -20.17 104.28 241.93 60.03 5 17 23 2545.0 -24.00 97.11

DIFFERENTIAL CORRECTIONS

TDE-1.7986 TRA-2.2986 TC3 -.0882 BAU .1130
 ROE .4723 RRA .5127 RC3 -.2349 FAU .03214
 FDE 3.8696 FRA 3.5469 FC3 -.8262 BSP 11104
 BOE 1.8596 BRA 2.3551 BC3 .2509 FSP -1491

MID-COURSE EXECUTION ACCURACY

SGT 3309.2 SGR 824.1 SG3 504.2
 RRT -.9303 RRF .9820 RTF -.9684
 SGB 3410.3 R23 -.2016 R13 .9727
 SG1 3397.5 SG2 294.5 THA 166.86

ORBIT DETERMINATION ACCURACY

ST 1963.1 SR 502.3 SS 2194.3
 CRT -.9981 CRS -.9985 CST .9934
 LSA 2982.1 MSA 167.9 SSA 6.6
 EL1 2026.1 EL2 30.3 ALF 165.67

LAUNCH DATE NOV 19 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.503 GAL 7.18 AZL 83.01 MCA 163.24 SMA 127.72 ECC .20012 INC 6.9903 V1 30.139
 RP 108.19 LAP 2.01 LOP 220.08 VP 37.606 GAP -7.51 AZP 96.70 TAL 148.50 TAP 311.74 RCA 102.16 APO 153.28 V2 35.027
 RC 46.364 GL 34.28 GP -24.75 ZAL 49.92 ZAP 33.18 ETS 46.79 ZAE 147.08 ETE 281.71 ZAC 115.46 ETC 177.36 CLP -22.84

PLANETOCENTRIC CONIC

C3 34.758 VHL 5.896 OLA 38.16 RAL .67 RAD 6568.4 VEL 12.495 PTH 2.26 VHP 6.153 DPA -18.45 RAP 27.41 ECC 1.5720
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.27 22 22 1 4258.15 -21.20 188.81 241.12 57.49 23 33 0 3658.2 -25.33 181.77
 116.73 4 38 32 3087.64 -21.18 100.29 241.11 57.48 5 30 0 2487.6 -25.32 93.25
 63.27 22 22 1 4258.15 -21.20 188.81 241.12 57.49 23 33 0 3658.2 -25.33 181.77
 116.73 4 38 32 3087.64 -21.18 100.29 241.11 57.48 5 30 0 2487.6 -25.32 93.25
 63.27 22 22 1 4258.15 -21.20 188.81 241.12 57.49 23 33 0 3658.2 -25.33 181.77
 116.73 4 38 32 3087.64 -21.18 100.29 241.11 57.48 5 30 0 2487.6 -25.32 93.25

DIFFERENTIAL CORRECTIONS

TDE-1.9414 TRA-2.2216 TC3 -.0748 BAU .1235
 ROE .7145 RRA .6205 RC3 -.2549 FAU .03166
 FDE 4.3178 FRA 3.5163 FC3 -.7887 BSP 11409
 BOE 2.0687 BRA 2.3066 BC3 .2657 FSP -1572

MID-COURSE EXECUTION ACCURACY

SGT 3332.9 SGR 1077.4 SG3 528.1
 RRT -.9440 RRF .9911 RTF -.9704
 SGB 3502.7 R23 -.1980 R13 .9768
 SG1 3486.2 SG2 339.8 THA 162.86

ORBIT DETERMINATION ACCURACY

ST 2058.7 SR 731.5 SS 2336.2
 CRT -.9957 CRS -.9998 CST .9939
 LSA 3194.0 MSA 172.2 SSA 5.1
 EL1 2183.9 EL2 63.8 ALF 160.50

LAUNCH DATE NOV 19 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.555 GAL 6.99 AZL 82.07 MCA 166.43 SMA 128.08 ECC .19558 INC 7.9331 V1 30.139
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.633 GAP -6.94 AZP 97.71 TAL 148.49 TAP 314.93 RCA 103.03 APO 153.13 V2 35.013
 RC 47.558 GL 38.17 GP -31.06 ZAL 52.59 ZAP 38.95 ETS 50.33 ZAE 141.03 ETE 283.47 ZAC 116.86 ETC 181.22 CLP -24.80

PLANETOCENTRIC CONIC

C3 37.313 VHL 6.108 OLA 41.31 RAL 357.64 RAD 6568.5 VEL 12.597 PTH 2.28 VHP 6.150 DPA -23.65 RAP 31.42 ECC 1.6141
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.56 21 48 6 4337.91 -22.01 196.13 240.27 54.11 23 0 24 3737.9 -26.54 189.31
 121.44 4 48 16 3043.71 -22.00 97.19 240.25 54.11 5 39 0 2443.7 -26.53 90.37
 58.56 21 48 6 4337.91 -22.01 196.13 240.27 54.11 23 0 24 3737.9 -26.54 189.31
 121.44 4 48 16 3043.71 -22.00 97.19 240.25 54.11 5 39 0 2443.7 -26.53 90.37
 58.56 21 48 6 4337.91 -22.01 196.13 240.27 54.11 23 0 24 3737.9 -26.54 189.31
 121.44 4 48 16 3043.71 -22.00 97.19 240.25 54.11 5 39 0 2443.7 -26.53 90.37

DIFFERENTIAL CORRECTIONS

TDE-2.1721 TRA-2.1395 TC3 -.0711 BAU .1378
 ROE 1.0895 RRA .7511 RC3 -.2669 FAU .02877
 FDE 4.7690 FRA 3.3099 FC3 -.6674 BSP 11804
 BOE 2.4301 BRA 2.2675 BC3 .2762 FSP -1586

MID-COURSE EXECUTION ACCURACY

SGT 3361.1 SGR 1425.0 SG3 530.9
 RRT -.9521 RRF .9952 RTF -.9725
 SGB 3650.7 R23 -.1820 R13 .9818
 SG1 3628.3 SG2 403.8 THA 157.73

ORBIT DETERMINATION ACCURACY

ST 2189.4 SR 1060.0 SS 2466.6
 CRT -.9943 CRS -1.0000 CST .9945
 LSA 3459.7 MSA 177.9 SSA 3.7
 EL1 2430.4 EL2 101.6 ALF 154.24

LAUNCH DATE NOV 19 1968

FLIGHT TIME 158.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 405.935

RL 147.83 LAL .00 LOL 56.73 VL 27.604 GAL 6.82 AZL 80.56 HCA 169.62 SMA 128.41 ECC .19144 INC 9.4413 V1 30.139
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.656 GAP -6.38 AZP 99.29 TAL 148.49 TAP 318.11 RCA 103.83 APO 152.99 V2 35.000
 RC 48.883 GL 43.27 GP -39.96 ZAL 56.36 ZAP 46.63 ETS 54.90 ZAE 132.43 ETE 284.93 ZAC 117.90 ETC 187.21 CLP -26.37

PLANETOCENTRIC CONIC

C3 43.024 VHL 6.559 DLA 45.24 RAL 353.02 RAD 6568.6 VEL 12.821 PTH 2.33 VHP 6.442 DPA -30.97 RAP 37.32 ECC 1.7081
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.12 21 7 41 4432.87 -22.20 204.76 239.16 49.51 22 21 34 3832.9 -27.24 198.34
 126.88 4 51 49 3020.67 -22.18 95.29 239.15 49.51 5 42 9 2420.7 -27.23 88.87
 53.12 21 7 41 4432.87 -22.20 204.76 239.16 49.51 22 21 34 3832.9 -27.24 198.34
 126.88 4 51 49 3020.67 -22.18 95.29 239.15 49.51 5 42 9 2420.7 -27.23 88.87
 53.12 21 7 41 4432.87 -22.20 204.76 239.16 49.51 22 21 34 3832.9 -27.24 198.34
 126.88 4 51 49 3020.67 -22.18 95.29 239.15 49.51 5 42 9 2420.7 -27.23 88.87

DIFFERENTIAL CORRECTIONS

TDE-2.5985 TRA-2.0521 TC3 -.0784 BAU .1525
 RDE 1.7069 RRA .8780 RC3 -.2533 FAU .02193
 FDE 5.0854 FRA 2.7975 FC3 -.4414 BSP 12462
 BDE 3.1089 BRA 2.2321 BC3 .2651 FSP -1477

MID-COURSE EXECUTION ACCURACY

SGT 3412.0 SGR 1876.0 SG3 489.6
 RRT -.9565 RRF .9966 RTF -.9753
 SGB 3893.8 R23 -.1528 R13 .9877
 SGI 3863.6 SG2 483.6 THA 151.78

ORBIT DETERMINATION ACCURACY

ST 2394.8 SR 1526.4 SS 2539.4
 CRT -.9941 CRS -.9999 CST .9955
 LSA 3805.2 MSA 184.1 SSA 2.5
 EL1 2836.4 EL2 140.3 ALF 147.55

LAUNCH DATE NOV 19 1968

FLIGHT TIME 160.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 412.534

RL 147.83 LAL .00 LOL 56.73 VL 27.647 GAL 6.66 AZL 77.74 HCA 172.79 SMA 128.71 ECC .18770 INC12.2589 V1 30.139
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.675 GAP -5.85 AZP 102.17 TAL 148.49 TAP 321.28 RCA 104.55 APO 152.87 V2 34.987
 RC 50.327 GL 50.20 GP -52.61 ZAL 62.00 ZAP 57.04 ETS 61.64 ZAE 120.03 ETE 288.10 ZAC 118.07 ETC 197.42 CLP -26.35

PLANETOCENTRIC CONIC

C3 57.603 VHL 7.590 DLA 50.00 RAL 345.18 RAD 6569.0 VEL 13.378 PTH 2.45 VHP 7.488 DPA -40.85 RAP 47.49 ECC 1.9480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.90 20 14 47 4559.35 -20.50 215.25 236.91 43.33 21 30 46 3959.4 -26.20 209.56
 133.10 4 42 11 3039.56 -20.48 95.37 236.90 43.32 5 32 50 2439.6 -26.19 89.68
 46.90 20 14 47 4559.35 -20.50 215.25 236.91 43.33 21 30 46 3959.4 -26.20 209.56
 133.10 4 42 11 3039.56 -20.48 95.37 236.90 43.32 5 32 50 2439.6 -26.19 89.68
 46.90 20 14 47 4559.35 -20.50 215.25 236.91 43.33 21 30 46 3959.4 -26.20 209.56
 133.10 4 42 11 3039.56 -20.48 95.37 236.90 43.32 5 32 50 2439.6 -26.19 89.68

DIFFERENTIAL CORRECTIONS

TDE-3.6003 TRA-1.9703 TC3 -.1052 BAU .1577
 RDE 2.7534 RRA .8799 RC3 -.1757 FAU .00920
 FDE 4.9620 FRA 1.8791 FC3 -.1383 BSP 13501
 BOE 4.5325 BRA 2.1578 BC3 .2048 FSP -1157

MID-COURSE EXECUTION ACCURACY

SGT 3573.2 SGR 2336.6 SG3 376.1
 RRT -.9580 RRF .9953 RTF -.9808
 SGB 4269.3 R23 -.1096 R13 .9938
 SGI 4231.7 SG2 565.9 THA 147.28

ORBIT DETERMINATION ACCURACY

ST 2805.2 SR 2101.6 SS 2460.8
 CRT -.9948 CRS -.9996 CST .9972
 LSA 4278.5 MSA 188.4 SSA 1.4
 EL1 3500.9 EL2 171.8 ALF 143.20

LAUNCH DATE NOV 19 1968

FLIGHT TIME 162.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 419.061

RL 147.83 LAL .00 LOL 56.73 VL 27.687 GAL 6.53 AZL 70.60 HCA 175.91 SMA 128.98 ECC .18442 INC19.3947 V1 30.139
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.692 GAP -5.34 AZP 109.35 TAL 148.46 TAP 324.37 RCA 105.20 APO 152.77 V2 34.974
 RC 51.881 GL 59.12 GP -69.68 ZAL 70.77 ZAP 70.48 ETS 81.56 ZAE 102.26 ETE 305.30 ZAC 117.00 ETC 223.95 CLP -15.81

PLANETOCENTRIC CONIC

C3 113.287 VHL 10.644 DLA 54.19 RAL 330.63 RAD 6570.2 VEL 15.317 PTH 2.74 VHP 11.190 DPA -51.48 RAP 69.03 ECC 2.8644
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.65 19 0 45 4749.11 -13.51 226.76 230.66 36.99 20 19 54 4149.1 -19.84 222.07
 138.35 4 0 7 3156.92 -13.50 99.17 230.64 36.99 4 52 44 2556.9 -19.83 94.48
 41.65 19 0 45 4749.11 -13.51 226.76 230.66 36.99 20 19 54 4149.1 -19.84 222.07
 138.35 4 0 7 3156.92 -13.50 99.17 230.64 36.99 4 52 44 2556.9 -19.83 94.48
 41.65 19 0 45 4749.11 -13.51 226.76 230.66 36.99 20 19 54 4149.1 -19.84 222.07
 138.35 4 0 7 3156.92 -13.50 99.17 230.64 36.99 4 52 44 2556.9 -19.83 94.48

DIFFERENTIAL CORRECTIONS

TDE-7.4521 TRA-1.8727 TC3 -.1872 BAU .2876
 RDE 3.1915 RRA .1201 RC3 -.0317 FAU .00958
 FDE 4.0820 FRA .7581 FC3 .0732 BSP 14563
 BOE 8.1068 BRA 1.8765 BC3 .1899 FSP -631

MID-COURSE EXECUTION ACCURACY

SGT 4384.1 SGR 1722.9 SG3 199.6
 RRT -.9341 RRF .9650 RTF -.9949
 SGB 4710.5 R23 -.0539 R13 .9985
 SGI 4675.0 SG2 576.8 THA 159.52

ORBIT DETERMINATION ACCURACY

ST 4044.7 SR 1718.3 SS 2134.1
 CRT -.9941 CRS -.9971 CST .9994
 LSA 4882.2 MSA 175.0 SSA 1.0
 EL1 4391.2 EL2 172.1 ALF 157.07

LAUNCH DATE NOV 19 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 425.097

RL 147.83 LAL .00 LOL 56.73 VL 27.722 GAL 6.50 AZL 29.38 HCA 178.65 SMA 129.23 ECC .18236 INC60.6208 V1 30.139
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.706 GAP -4.95 AZP 150.62 TAL 148.15 TAP 326.79 RCA 105.67 APO 152.80 V2 34.961
 RC 53.536 GL 54.71 GP -64.43 ZAL 83.18 ZAP 84.30 ETS 171.91 ZAE 71.69 ETE 31.24 ZAC 120.34 ETC 329.63 CLP 76.70

PLANETOCENTRIC CONIC

C3 864.659 VHL 29.405 DLA 41.68 RAL 316.07 RAD 6572.9 VEL 31.400 PTH 3.47 VHP 35.095 DPA -42.50 RAP 117.82 ECC15.2301
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.03 19 0 0 4851.27 -.05 221.89 226.03 48.32 20 20 51 4251.3 -5.36 216.32
 121.97 2 4 44 3544.44 -.03 121.85 226.01 48.32 3 3 48 2944.4 -5.34 116.27
 58.03 19 0 0 4851.27 -.05 221.89 226.03 48.32 20 20 51 4251.3 -5.36 216.32
 121.97 2 4 44 3544.44 -.03 121.85 226.01 48.32 3 3 48 2944.4 -5.34 116.27
 58.03 19 0 0 4851.27 -.05 221.89 226.03 48.32 20 20 51 4251.3 -5.36 216.32
 121.97 2 4 44 3544.44 -.03 121.85 226.01 48.32 3 3 48 2944.4 -5.34 116.27

DIFFERENTIAL CORRECTIONS

TDE-8.0640 TRA 1.4189 TC3 -.1502 BAU 3.8999
 RD-18.9116 RRA-2.3364 RC3 -.3021 FAU-.07036
 FDE 4.1797 FRA .3939 FC3 .0704 BSP 13014
 BOE20.5591 BRA 2.7335 BC3 .3374 FSP -239

MID-COURSE EXECUTION ACCURACY

SGT 1840.3 SGR 4135.9 SG3 79.4
 RRT .9373 RRF -.9991 RTF -.9501
 SGB 4526.9 R23 -.0169 R13 -.9998
 SGI 4488.1 SG2 591.1 THA 66.94

ORBIT DETERMINATION ACCURACY

ST 1575.4 SR 3689.8 SS 2471.5
 CRT .9928 CRS .9999 CST .9941
 LSA 4709.0 MSA 174.4 SSA 1.4
 EL1 4008.3 EL2 173.8 ALF 66.98

LAUNCH DATE NOV 19 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.754 GAL 6.19 AZL 111.66 HCA 182.71 SMA 129.45 ECC .17766 INC21.6600 V1 30.139
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.718 GAP -4.19 AZP 68.36 TAL 148.80 TAP 331.51 RCA 106.45 APO 152.45 V2 34.948
 RC 55.282 GL -61.17 GP 78.94 ZAL 73.25 ZAP 79.34 ETS 271.34 ZAE 99.85 ETE 41.99 ZAC 86.65 ETC 117.47 CLP 15.41

DISTANCE 432.714

PLANETOCENTRIC CONIC

C3 135.142 VHL 11.625 DLA -52.40 RAL 37.94 RAD 6570.5 VEL 16.015 PTH 2.82 VHP 16.127 DPA 75.17 RAP 294.78 ECC 3.2241
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.88 11 37 41 2125.57 11.33 57.18 299.04 141.51 12 13 7 1525.6 17.54 52.38
 136.12 20 20 11 5849.90 11.34 270.65 299.06 141.51 21 57 41 5249.9 17.55 265.85
 43.88 11 37 41 2125.57 11.33 57.18 299.04 141.51 12 13 7 1525.6 17.54 52.38
 136.12 20 20 11 5849.90 11.34 270.65 299.06 141.51 21 57 41 5249.9 17.55 265.85
 43.88 11 37 41 2125.57 11.33 57.18 299.04 141.51 12 13 7 1525.6 17.54 52.38
 136.12 20 20 11 5849.90 11.34 270.65 299.06 141.51 21 57 41 5249.9 17.55 265.85

DIFFERENTIAL CORRECTIONS

TDE -1.8176 TRA-5.8344 TC3 -.2211 BAU .4000
 RDE .6726 RRA-1.6522 RC3 .0125 FAU-.00882
 FDE .4407 FRA 1.8914 FC3 .0565 BSP 15072
 BOE 1.9380 BRA 6.0638 BC3 .2214 FSP -412

MID-COURSE EXECUTION ACCURACY

SGT 4824.2 SGR 1375.4 SG3 133.8
 RRT .9008 RRF -.9216 RTF -.9987
 SGB 5016.4 R23 -.0204 R13 -.9998
 SG1 4983.0 SG2 578.2 THA 14.60

ORBIT DETERMINATION ACCURACY

ST 1673.7 SR 519.8 SS 706.7
 CRT .3092 CRS .4228 CST .9925
 LSA 1823.6 MSA 495.4 SSA .5
 EL1 1682.1 EL2 491.8 ALF 6.00

LAUNCH DATE NOV 19 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.782 GAL 6.12 AZL 98.19 HCA 185.77 SMA 129.65 ECC .17553 INC 8.1855 V1 30.139
 RP 108.47 LAP .82 LOP 242.44 VP 37.727 GAP -3.74 AZP 81.86 TAL 148.71 TAP 334.48 RCA 106.89 APO 152.41 V2 34.936
 RC 57.109 GL -42.19 GP 66.01 ZAL 55.47 ZAP 70.86 ETS 313.58 ZAE 117.74 ETE 78.03 ZAC 88.69 ETC 151.26 CLP -36.25

DISTANCE 439.096

PLANETOCENTRIC CONIC

C3 34.293 VHL 5.856 DLA -32.13 RAL 33.05 RAD 6568.4 VEL 12.477 PTH 2.26 VHP 8.172 DPA 62.39 RAP 334.09 ECC 1.5644
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.15 13 36 6 1420.49 18.22 2.80 271.41 116.93 13 59 47 820.5 21.69 355.54
 105.85 17 42 46 630.45 18.24 304.27 271.41 116.92 17 53 16 30.5 21.70 297.02
 74.15 13 36 6 1420.49 18.22 2.80 271.41 116.93 13 59 47 820.5 21.69 355.54
 105.85 17 42 46 630.45 18.24 304.27 271.41 116.92 17 53 16 30.5 21.70 297.02
 110.00 16 39 42 825.91 9.57 314.13 266.28 122.97 16 53 28 225.9 13.85 307.64
 110.00 19 38 20 5561.08 27.35 259.12 275.84 111.35 21 11 1 4961.1 30.00 250.93

DIFFERENTIAL CORRECTIONS

TDE -.9441 TRA-2.3199 TC3 -.0345 BAU .2296
 RDE -.5011 RRA-3.3491 RC3 .4997 FAU .01851
 FDE .6591 FRA 3.2225 FC3 -.4672 BSP 15468
 BOE 1.0688 BRA 4.0741 BC3 .5009 FSP -1055

MID-COURSE EXECUTION ACCURACY

SGT 2835.2 SGR 3943.9 SG3 329.9
 RRT .9658 RRF -.9990 RTF -.9748
 SGB 4857.3 R23 -.0498 R13 -.9985
 SG1 4819.9 SG2 601.2 THA 54.59

ORBIT DETERMINATION ACCURACY

ST 1224.6 SR 1260.2 SS 910.6
 CRT .8982 CRS .9923 CST .9457
 LSA 1937.6 MSA 403.7 SSA 2.1
 EL1 1712.0 EL2 396.3 ALF 45.91

LAUNCH DATE NOV 19 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.807 GAL 6.04 AZL 94.10 HCA 188.91 SMA 129.83 ECC .17350 INC 4.1039 V1 30.139
 RP 108.51 LAP .64 LOP 245.62 VP 37.734 GAP -3.26 AZP 85.95 TAL 148.69 TAP 337.60 RCA 107.30 APO 152.35 V2 34.923
 RC 59.010 GL -25.44 GP 54.98 ZAL 44.54 ZAP 66.46 ETS 324.59 ZAE 128.85 ETE 82.90 ZAC 91.59 ETC 155.13 CLP -45.89

DISTANCE 445.570

PLANETOCENTRIC CONIC

C3 21.228 VHL 4.607 DLA -16.14 RAL 27.16 RAD 6567.9 VEL 11.942 PTH 2.13 VHP 5.916 DPA 52.80 RAP 345.96 ECC 1.3494
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 11 26 34 1701.54 -4.72 11.16 248.47 117.95 11 54 55 1101.5 -.94 4.52
 90.00 19 5 22 5399.77 28.00 247.55 255.33 85.58 20 35 22 4799.8 27.09 239.01
 100.00 12 38 54 1468.15 -5.93 353.34 247.81 119.35 13 3 22 868.2 -1.97 346.79
 100.00 20 35 43 5108.39 29.37 225.98 255.19 84.18 22 0 51 4508.4 28.26 217.36
 110.00 13 27 10 1316.95 -9.03 339.98 245.91 123.11 13 49 7 716.9 -4.60 333.68
 110.00 22 3 56 4832.36 32.96 204.45 254.62 80.37 23 24 29 4232.4 31.28 195.63

DIFFERENTIAL CORRECTIONS

TDE -.6682 TRA-1.6815 TC3 -.0229 BAU .2643
 RDE -.5990 RRA-2.8887 RC3 .9311 FAU .04016
 FDE 1.2010 FRA 4.8876 FC3 -1.6377 BSP 14535
 BOE .8974 BRA 3.3424 BC3 .9314 FSP -1817

MID-COURSE EXECUTION ACCURACY

SGT 2330.2 SGR 3908.5 SG3 576.7
 RRT .9598 RRF -.9994 RTF -.9634
 SGB 4550.4 R23 -.0582 R13 -.9978
 SG1 4515.1 SG2 565.9 THA 59.69

ORBIT DETERMINATION ACCURACY

ST 1056.8 SR 1346.9 SS 1234.8
 CRT .9495 CRS .9968 CST .9716
 LSA 2093.9 MSA 267.0 SSA 4.4
 EL1 1691.6 EL2 264.0 ALF 52.23

LAUNCH DATE NOV 19 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.829 GAL 5.97 AZL 92.15 HCA 192.08 SMA 129.98 ECC .17173 INC 2.1464 V1 30.139
 RP 108.55 LAP .45 LOP 248.80 VP 37.739 GAP -2.79 AZP 87.90 TAL 148.67 TAP 340.75 RCA 107.66 APO 152.30 V2 34.911
 RC 60.976 GL -14.23 GP 47.24 ZAL 39.55 ZAP 65.24 ETS 332.49 ZAE 136.44 ETE 86.00 ZAC 93.47 ETC 157.05 CLP -51.91

DISTANCE 452.048

PLANETOCENTRIC CONIC

C3 17.799 VHL 4.219 DLA -5.58 RAL 23.29 RAD 6567.7 VEL 11.798 PTH 2.09 VHP 4.889 DPA 45.65 RAP 351.26 ECC 1.2929
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 43 11 2013.21 -14.23 29.12 241.81 114.74 10 16 44 1413.2 -10.77 22.14
 90.00 20 17 53 5004.71 22.83 219.91 244.21 72.77 21 41 17 4404.7 20.25 212.18
 100.00 11 1 53 1759.31 -15.22 9.96 241.32 116.04 11 31 13 1159.3 -11.60 3.05
 100.00 21 41 52 4733.83 23.87 199.62 243.84 71.45 23 0 45 4133.8 21.11 191.91
 110.00 12 4 5 1564.56 -17.85 353.73 239.87 119.65 12 30 10 964.6 -13.77 347.00
 110.00 22 56 9 4501.35 26.66 180.82 242.69 67.77 24 11 10 3901.3 23.41 173.17

DIFFERENTIAL CORRECTIONS

TDE -.5549 TRA-1.3285 TC3 -.0771 BAU .2590
 RDE -.6772 RRA-2.5611 RC3 1.0859 FAU .05886
 FDE 1.9747 FRA 6.4397 FC3 -2.8630 BSP 13512
 BOE .8756 BRA 2.8852 BC3 1.0886 FSP -2565

MID-COURSE EXECUTION ACCURACY

SGT 1964.3 SGR 3728.1 SG3 820.8
 RRT .9516 RRF -.9993 RTF -.9536
 SGB 4213.9 R23 -.0572 R13 -.9977
 SG1 4179.4 SG2 538.4 THA 62.88

ORBIT DETERMINATION ACCURACY

ST 929.4 SR 1394.9 SS 1588.6
 CRT .9744 CRS .9973 CST .9883
 LSA 2302.8 MSA 174.9 SSA 7.6
 EL1 1667.0 EL2 174.8 ALF 56.59

LAUNCH DATE NOV 19 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.848 GAL 5.92 AZL 91.00 MCA 195.25 SMA 130.11 ECC .17023 INC .9951 V1 30.139
 RP 108.58 LAP .26 LOP 251.98 VP 37.742 GAP -2.33 AZP 89.04 TAL 148.64 TAP 343.89 RCA 107.96 APO 152.26 V2 34.900
 RC 63.000 GL -6.78 GP 41.65 ZAL 37.63 ZAP 66.19 ETS 338.96 ZAE 141.81 ETE 89.72 ZAC 94.34 ETC 158.65 CLP -57.31

PLANETOCENTRIC CONIC

C3 16.612 VHL 4.076 DLA 1.40 RAL 20.67 RAD 6567.7 VEL 11.747 PTH 2.07 VHP 4.299 DPA 40.13 RAP 353.76 ECC 1.2734
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 40 43 2214.32 -19.56 41.46 239.34 110.89 9 17 37 1614.3 -16.55 34.09
 90.00 20 59 27 4771.73 17.37 205.01 238.76 67.28 22 18 59 4171.7 14.14 197.82
 100.00 10 2 42 1949.84 -20.54 21.60 238.93 112.21 10 35 12 1349.8 -17.35 14.26
 100.00 22 20 9 4511.43 18.34 185.43 238.32 65.97 23 35 20 3911.4 14.34 178.29
 110.00 11 12 26 1731.57 -23.17 3.77 237.67 115.87 11 41 18 1131.6 -19.49 356.56
 110.00 23 26 54 4302.48 20.92 168.24 236.99 62.33 24 38 37 3702.5 17.05 161.25

DIFFERENTIAL CORRECTIONS

TOE -.4605 TRA-1.0299 TC3 -.1646 BAU .2501
 ROE -.7243 RRA-2.3229 RC3 1.1142 FAU .07525
 FOE 2.8313 FRA 7.8096 FC3-3.9215 BSP 12541
 BOE .8583 BRA 2.5409 BC3 1.1262 FSP -3275

MID-COURSE EXECUTION ACCURACY

SGT 1591.9 SGR 3539.8 SG3 1046.3
 RRT .9347 RRF -.9990 RTF -.9363
 SGB 3881.3 R23 -.0510 R13 -.9977
 SG1 3846.2 SG2 520.6 TMA 66.75

ORBIT DETERMINATION ACCURACY

ST 779.6 SR 1413.4 SS 1919.4
 CRT .9844 CRS .9972 CST .9947
 LSA 2504.6 MSA 127.3 SSA 11.2
 EL1 1609.6 EL2 120.4 ALF 61.32

LAUNCH DATE NOV 19 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.864 GAL 5.88 AZL 90.23 MCA 198.42 SMA 130.23 ECC .16901 INC .2317 V1 30.139
 RP 108.62 LAP .07 LOP 255.15 VP 37.744 GAP -1.87 AZP 89.78 TAL 148.59 TAP 347.01 RCA 108.22 APO 152.24 V2 34.889
 RC 65.076 GL -1.61 GP 37.43 ZAL 37.05 ZAP 68.61 ETS 344.37 ZAE 145.67 ETE 94.66 ZAC 94.41 ETC 160.13 CLP -62.67

PLANETOCENTRIC CONIC

C3 16.166 VHL 4.021 DLA 6.22 RAL 18.81 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 3.913 DPA 35.66 RAP 354.74 ECC 1.2661
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 57 3 2358.87 -22.79 50.83 238.36 107.28 8 36 21 1758.9 -20.21 43.11
 90.00 21 28 15 4614.73 13.00 195.55 235.86 64.62 22 45 9 4014.7 9.48 188.65
 100.00 9 21 21 2086.97 -23.81 30.48 238.01 108.63 9 56 8 1487.0 -21.04 22.77
 100.00 22 46 36 4361.86 13.97 176.47 235.38 63.30 23 59 20 3761.9 10.27 169.63
 110.00 10 36 21 1852.22 -26.53 11.53 236.88 112.39 11 7 13 1252.2 -23.26 3.90
 110.00 23 48 7 4169.37 16.52 160.43 233.94 59.64 24 57 36 3569.4 12.36 153.78

DIFFERENTIAL CORRECTIONS

TOE -.3549 TRA -.7393 TC3 -.2824 BAU .2425
 ROE -.7507 RRA-2.1425 RC3 1.0858 FAU .08892
 FOE 3.7141 FRA 9.0233 FC3-4.7621 BSP 11499
 BOE .8304 BRA 2.2665 BC3 1.1219 FSP -3906

MID-COURSE EXECUTION ACCURACY

SGT 1196.0 SGR 3367.4 SG3 1252.0
 RRT .8933 RRF -.9987 RTF -.8952
 SGB 3573.5 R23 -.0399 R13 -.9979
 SG1 3536.6 SG2 511.9 TMA 72.01

ORBIT DETERMINATION ACCURACY

ST 597.4 SR 1412.1 SS 2219.2
 CRT .9884 CRS .9969 CST .9970
 LSA 2695.1 MSA 108.6 SSA 13.9
 EL1 1531.0 EL2 83.8 ALF 67.24

LAUNCH DATE NOV 19 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.877 GAL 5.85 AZL 89.69 MCA 201.60 SMA 130.32 ECC .16806 INC .3114 V1 30.139
 RP 108.65 LAP -.11 LOP 258.33 VP 37.743 GAP -1.42 AZP 90.29 TAL 148.53 TAP 350.12 RCA 108.42 APO 152.23 V2 34.878
 RC 67.198 GL 2.16 GP 34.11 ZAL 37.01 ZAP 72.05 ETS 348.92 ZAE 148.35 ETE 100.95 ZAC 93.84 ETC 161.54 CLP -68.15

PLANETOCENTRIC CONIC

C3 16.027 VHL 4.003 DLA 9.73 RAL 17.43 RAD 6567.6 VEL 11.722 PTH 2.07 VHP 3.643 DPA 31.85 RAP 354.76 ECC 1.2638
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 24 6 2469.43 -24.83 58.29 238.03 104.08 8 5 15 1869.4 -22.65 50.30
 90.00 21 50 11 4500.23 9.57 188.89 234.22 63.22 23 5 11 3900.2 5.90 182.13
 100.00 8 50 14 2191.63 -25.90 37.55 237.71 105.47 9 26 45 1591.6 -23.53 29.55
 100.00 23 6 44 4253.48 10.56 170.21 233.70 61.87 24 17 37 3653.5 6.72 163.53
 110.00 10 9 22 1943.97 -28.76 17.74 236.70 109.33 10 41 46 1344.0 -25.85 9.76
 110.00 0 8 1 4073.68 13.15 155.06 232.17 58.16 11 5 54 3473.7 8.85 148.60

DIFFERENTIAL CORRECTIONS

TOE -.2257 TRA -.4396 TC3 -.4150 BAU .2409
 ROE -.7557 RRA-1.9900 RC3 1.0452 FAU .10111
 FOE 4.5556 FRA10.0586 FC3-5.4619 BSP 10585
 BOE .7887 BRA 2.0380 BC3 1.1246 FSP -4504

MID-COURSE EXECUTION ACCURACY

SGT 788.8 SGR 3197.0 SG3 1432.7
 RRT .7597 RRF -.9982 RTF -.7627
 SGB 3292.8 R23 -.0231 R13 -.9980
 SG1 3254.1 SG2 503.9 TMA 79.12

ORBIT DETERMINATION ACCURACY

ST 375.7 SR 1386.4 SS 2472.7
 CRT .9891 CRS .9965 CST .9975
 LSA 2857.6 MSA 105.5 SSA 15.1
 EL1 1435.4 EL2 53.3 ALF 74.97

LAUNCH DATE NOV 19 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.888 GAL 5.83 AZL 89.28 MCA 204.77 SMA 130.40 ECC .16737 INC .7213 V1 30.139
 RP 108.68 LAP -.30 LOP 261.50 VP 37.742 GAP -.97 AZP 90.66 TAL 148.44 TAP 353.21 RCA 108.58 APO 152.23 V2 34.867
 RC 69.360 GL 5.00 GP 31.37 ZAL 37.18 ZAP 76.22 ETS 352.80 ZAE 150.03 ETE 108.47 ZAC 92.78 ETC 162.87 CLP -73.80

PLANETOCENTRIC CONIC

C3 16.042 VHL 4.005 DLA 12.39 RAL 16.38 RAD 6567.6 VEL 11.723 PTH 2.07 VHP 3.448 DPA 28.45 RAP 354.17 ECC 1.2640
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 57 59 2557.95 -26.15 64.44 238.00 101.27 7 40 37 1958.0 -24.33 56.24
 90.00 22 7 55 4412.13 6.83 183.87 233.28 62.45 23 21 27 3812.1 3.09 177.19
 100.00 8 25 41 2275.12 -27.29 43.37 237.73 102.71 9 3 36 1675.1 -25.26 35.15
 100.00 23 22 55 4170.19 7.85 165.53 232.73 61.07 24 32 25 3570.2 3.93 158.93
 110.00 9 48 16 2016.72 -30.29 22.85 236.83 106.66 10 21 53 1416.7 -27.71 14.60
 110.00 0 20 45 4001.36 10.52 151.11 231.11 57.29 11 27 26 3401.4 6.13 144.76

DIFFERENTIAL CORRECTIONS

TOE -.0737 TRA -.1290 TC3 -.5636 BAU .2452
 ROE -.7456 RRA-1.8543 RC3 .9947 FAU .11125
 FOE 5.3338 FRA10.9168 FC3-6.0040 BSP 9743
 BOE .7493 BRA 1.8588 BC3 1.1433 FSP -5028

MID-COURSE EXECUTION ACCURACY

SGT 500.6 SGR 3024.7 SG3 1586.1
 RRT .1754 RRF -.9977 RTF -.1798
 SGB 3065.9 R23 .0001 R13 -.9977
 SG1 3026.0 SG2 492.7 TMA 88.29

ORBIT DETERMINATION ACCURACY

ST 120.4 SR 1342.5 SS 2685.1
 CRT .9790 CRS .9959 CST .9894
 LSA 3002.4 MSA 109.8 SSA 15.2
 EL1 1347.6 EL2 24.5 ALF 84.98

LAUNCH DATE NOV 19 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.897 GAL 5.83 AZL 88.96 MCA 207.94 SMA 130.46 ECC .16695 INC 1.0433 V1 30.139
 RP 108.72 LAP -.49 LOP 264.67 VP 37.739 GAP -.53 AZP 90.92 TAL 148.33 TAP 356.27 RCA 108.68 APO 152.24 V2 34.858
 RC 71.560 GL 7.22 GP 29.01 ZAL 37.42 ZAP 80.90 ETS 356.11 ZAE 150.75 ETE 116.83 ZAC 91.36 ETC 164.10 CLP -79.58

PLANETOCENTRIC CONIC

C3 16.151 VHL 4.019 DLA 14.47 RAL 15.58 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 3.309 DPA 25.31 RAP 353.16 ECC 1.2658
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 36 36 2631.39 -27.02 69.64 238.14 98.81 7 20 28 2031.4 -25.53 61.29
 90.00 22 22 53 4341.77 4.60 179.90 232.77 62.03 23 35 15 3741.8 .82 173.26
 100.00 8 5 41 2344.10 -28.22 48.28 237.91 100.29 8 44 45 1744.1 -26.51 39.89
 100.00 23 36 29 4104.30 5.67 161.86 232.18 60.60 24 44 53 3504.3 1.71 155.31
 110.00 9 31 15 2076.37 -31.37 27.15 237.12 104.33 10 5 52 1476.4 -29.09 18.70
 110.00 0 31 20 3944.79 8.42 148.07 230.49 56.75 1 37 5 3344.8 3.99 141.79

DIFFERENTIAL CORRECTIONS

TDE .0994 TRA .1909 TC3 -.7242 BAU .2558
 RDE -.7214 RRA-1.7257 RC3 .9378 FAU .11916
 FDE 6.0121 FRA11.5726 FC3-6.3876 BSP 9076
 BOE .7282 BRA 1.7362 BC3 1.1849 FSP -5471

MID-COURSE EXECUTION ACCURACY

SGT 661.7 SGR 2842.9 SG3 1706.6
 RRT -.6902 RRF -.9969 RTF .6879
 SGB 2918.9 R23 .0273 R13 -.9965
 SG1 2880.4 SG2 472.6 THA 99.38

ORBIT DETERMINATION ACCURACY

ST 165.8 SR 1280.4 SS 2853.8
 CRT -.9911 CRS .9950 CST -.9959
 LSA 3130.1 MSA 116.8 SSA 14.9
 EL1 1290.9 EL2 21.9 ALF 97.31

LAUNCH DATE NOV 19 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.903 GAL 5.85 AZL 88.70 MCA 211.11 SMA 130.51 ECC .16678 INC 1.3044 V1 30.139
 RP 108.74 LAP -.67 LOP 267.84 VP 37.735 GAP -.10 AZP 91.12 TAL 148.19 TAP 359.31 RCA 108.74 APO 152.28 V2 34.848
 RC 73.792 GL 9.00 GP 26.90 ZAL 37.65 ZAP 85.93 ETS 358.95 ZAE 150.59 ETE 125.44 ZAC 89.69 ETC 165.19 CLP -85.44

PLANETOCENTRIC CONIC

C3 16.328 VHL 4.041 DLA 16.14 RAL 14.96 RAD 6567.7 VEL 11.735 PTH 2.07 VHP 3.217 DPA 22.36 RAP 351.89 ECC 1.2687
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 41 2694.04 -27.59 74.13 238.40 96.62 7 3 35 2094.0 -26.39 65.67
 90.00 22 35 53 4284.09 2.75 176.67 232.56 61.81 23 47 17 3684.1 -1.04 170.04
 100.00 7 49 2 2402.67 -28.86 52.51 238.22 98.14 8 29 5 1802.7 -27.43 44.00
 100.00 23 48 13 4050.70 3.87 158.90 231.94 60.34 24 55 44 3450.7 -.11 152.37
 110.00 9 17 15 2126.66 -32.16 30.86 237.53 102.26 9 52 42 1526.7 -30.14 22.23
 110.00 0 40 25 3899.47 6.72 145.66 230.17 56.41 1 45 25 3299.5 2.26 139.42

DIFFERENTIAL CORRECTIONS

TDE .2895 TRA .5157 TC3 -.8916 BAU .2723
 RDE -.6854 RRA-1.6007 RC3 .8728 FAU .12421
 FDE 6.5696 FRA12.0153 FC3-6.5859 BSP 8653
 BOE .7440 BRA 1.6817 BC3 1.2477 FSP -5793

MID-COURSE EXECUTION ACCURACY

SGT 1125.7 SGR 2650.5 SG3 1790.9
 RRT -.9069 RRF -.9959 RTF .9068
 SGB 2879.6 R23 .0524 R13 -.9945
 SG1 2845.5 SG2 441.8 THA 111.61

ORBIT DETERMINATION ACCURACY

ST 470.2 SR 1203.1 SS 2981.8
 CRT -.9921 CRS .9938 CST -.9995
 LSA 3247.1 MSA 124.5 SSA 14.5
 EL1 1290.6 EL2 54.9 ALF 111.24

LAUNCH DATE NOV 19 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.908 GAL 5.88 AZL 88.48 MCA 214.28 SMA 130.54 ECC .16686 INC 1.5214 V1 30.139
 RP 108.77 LAP -.86 LOP 271.00 VP 37.731 GAP .33 AZP 91.26 TAL 148.03 TAP 3.31 RCA 108.76 APO 152.32 V2 34.839
 RC 76.053 GL 10.44 GP 24.96 ZAL 37.85 ZAP 91.17 ETS 1.39 ZAE 149.63 ETE 133.70 ZAC 87.87 ETC 166.13 CLP -91.29

PLANETOCENTRIC CONIC

C3 16.562 VHL 4.070 DLA 17.51 RAL 14.49 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 3.163 DPA 19.56 RAP 350.49 ECC 1.2726
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 3 25 2748.68 -27.96 78.09 238.76 94.67 6 49 13 2148.7 -27.02 69.55
 90.00 22 47 26 4235.96 1.20 173.99 232.57 61.71 23 58 2 3636.0 -2.59 167.36
 100.00 7 34 56 2453.52 -29.29 56.23 238.62 96.23 8 15 50 1853.5 -28.12 47.62
 100.00 0 2 31 4006.35 2.37 156.46 231.92 60.19 1 9 18 3406.4 -1.61 149.94
 110.00 9 5 33 2170.01 -32.74 34.11 238.03 100.42 9 41 43 1570.0 -30.96 25.34
 110.00 0 48 24 3862.63 5.33 143.72 230.08 56.19 1 52 46 3262.6 .85 137.49

DIFFERENTIAL CORRECTIONS

TDE .4915 TRA .8392 TC3-1.0582 BAU .2951
 RDE -.6353 RRA-1.4740 RC3 .8103 FAU .12765
 FDE 6.9510 FRA12.2053 FC3-6.6728 BSP 8657
 BOE .8033 BRA 1.6961 BC3 1.3328 FSP -6046

MID-COURSE EXECUTION ACCURACY

SGT 1660.0 SGR 2443.4 SG3 1832.7
 RRT -.9573 RRF -.9945 RTF .9592
 SGB 2954.0 R23 .0662 R13 -.9926
 SG1 2926.7 SG2 400.6 THA 123.76

ORBIT DETERMINATION ACCURACY

ST 786.0 SR 1107.5 SS 3056.1
 CRT -.9904 CRS .9921 CST -.9998
 LSA 3341.6 MSA 132.3 SSA 14.1
 EL1 1355.2 EL2 88.6 ALF 125.27

LAUNCH DATE NOV 19 1968

FLIGHT TIME 188.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

RL 147.83 LAL .00 LOL 56.73 VL 27.910 GAL 5.92 AZL 88.29 MCA 217.45 SMA 130.56 ECC .16719 INC 1.7058 V1 30.139
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.725 GAP .76 AZP 91.35 TAL 147.83 TAP 5.28 RCA 108.73 APO 152.39 V2 34.831
 RC 78.340 GL 11.62 GP 23.14 ZAL 37.99 ZAP 96.48 ETS 3.46 ZAE 148.03 ETE 141.12 ZAC 86.02 ETC 166.89 CLP -97.05

PLANETOCENTRIC CONIC

C3 16.849 VHL 4.105 DLA 18.66 RAL 14.15 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 3.145 DPA 16.90 RAP 349.07 ECC 1.2773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 50 16 2797.20 -28.18 81.62 239.20 92.91 6 36 53 2197.2 -27.48 73.02
 90.00 22 57 53 4195.32 -.11 171.72 232.75 61.68 24 7 48 3595.3 -3.90 165.08
 100.00 7 22 54 2498.47 -29.58 59.54 239.10 94.51 8 4 33 1898.5 -28.64 50.86
 100.00 0 11 51 3969.29 1.11 154.42 232.06 60.13 1 18 1 3369.3 -2.87 147.90
 110.00 8 55 43 2208.08 -33.17 37.00 238.61 98.76 9 32 31 1608.1 -31.61 28.12
 110.00 0 55 32 3832.44 4.19 142.13 230.15 56.04 1 59 24 3232.4 -.30 135.92

DIFFERENTIAL CORRECTIONS

TDE .7005 TRA 1.1575 TC3-1.2196 BAU .3211
 RDE -.5788 RRA-1.3520 RC3 .7384 FAU .12732
 FDE 7.1910 FRA12.1970 FC3-6.5424 BSP 8993
 BOE .9087 BRA 1.7798 BC3 1.4257 FSP -6130

MID-COURSE EXECUTION ACCURACY

SGT 2206.1 SGR 2233.3 SG3 1837.9
 RRT -.9730 RRF -.9927 RTF .9767
 SGB 3139.2 R23 .0670 R13 -.9915
 SG1 3117.9 SG2 364.8 THA 134.64

ORBIT DETERMINATION ACCURACY

ST 1104.0 SR 1005.1 SS 3096.7
 CRT -.9880 CRS .9897 CST -.9999
 LSA 3435.0 MSA 139.6 SSA 13.8
 EL1 1488.5 EL2 115.1 ALF 137.72

LAUNCH DATE NOV 19 1968

FLIGHT TIME 190.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 509.483

RL 147.83 LAL .00 LOL 56.73 VL 27.911 GAL 5.98 AZL 88.13 MCA 220.62 SMA 130.57 ECC .16777 INC 1.8652 V1 30.139
 RP 108.82 LAP -1.21 LOP 277.33 VP 37.718 GAP 1.18 AZP 91.42 TAL 147.61 TAP 8.22 RCA 108.66 APO 152.47 V2 34.824
 RC 80.651 GL 12.59 GP 21.43 ZAL 38.08 ZAP 101.76 ETS 5.21 ZAE 145.99 ETE 147.50 ZAC 84.23 ETC 167.47 CLP-102.65

PLANETOCENTRIC CONIC

C3 17.187 VHL 4.146 DLA 19.62 RAL 13.92 RAD 6567.7 VEL 11.772 PTH 2.08 VHP 3.159 DPA 14.40 RAP 347.70 ECC 1.2829
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 52 2840.90 -28.29 84.81 239.72 91.32 6 26 13 2240.9 -27.81 76.18
 90.00 23 7 26 4160.80 -1.23 169.79 233.07 61.71 24 16 47 3560.8 -5.00 163.15
 100.00 7 12 34 2538.77 -29.76 62.52 239.65 92.95 7 54 52 1938.8 -29.03 53.80
 100.00 0 20 21 3938.16 .06 152.71 232.36 60.11 1 26 0 3338.2 -3.92 146.19
 110.00 8 47 24 2242.05 -33.50 39.60 239.26 97.26 9 24 46 1642.0 -32.13 30.63
 110.00 1 2 0 3807.65 3.24 140.83 230.37 55.95 2 5 28 3207.6 -1.25 134.63

DIFFERENTIAL CORRECTIONS

TOE .9105 TRA 1.4644 TC3-1.3697 BAU .3503
 RDE -.5151 RRA-1.2325 RC3 .6691 FAU .12505
 FDE 7.2630 FRA11.9803 FC3-6.2988 BSP 9700
 BDE 1.0462 BRA 1.9141 BC3 1.5244 FSP -6122

MID-COURSE EXECUTION ACCURACY

SGT 2736.8 SGR 2021.2 SG3 1806.2
 RRT -.9783 RRF -.9901 RTF .9846
 SGB 3402.3 R23 .0570 R13 -.9914
 SG1 3385.4 SG2 338.2 THA 143.73

ORBIT DETERMINATION ACCURACY

ST 1414.3 SR H95.3 SS 3095.4
 CRT -.9842 CRS .9860 CST -.9999
 LSA 3515.9 MSA 146.5 SSA 13.4
 EL1 1668.5 EL2 134.2 ALF 147.84

LAUNCH DATE NOV 19 1968

FLIGHT TIME 192.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 515.752

RL 147.83 LAL .00 LOL 56.73 VL 27.910 GAL 6.05 AZL 87.99 MCA 223.79 SMA 130.56 ECC .16859 INC 2.0053 V1 30.139
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.711 GAP 1.60 AZP 91.45 TAL 147.35 TAP 11.13 RCA 108.55 APO 152.57 V2 34.816
 RC 82.981 GL 13.39 GP 19.82 ZAL 38.12 ZAP 106.92 ETS 6.67 ZAE 143.66 ETE 152.80 ZAC 82.57 ETC 167.88 CLP-108.02

PLANETOCENTRIC CONIC

C3 17.579 VHL 4.193 DLA 20.45 RAL 13.79 RAD 6567.7 VEL 11.788 PTH 2.08 VHP 3.202 DPA 12.08 RAP 346.45 ECC 1.2893
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 57 2880.70 -28.32 87.72 240.31 89.86 6 16 58 2280.7 -28.04 79.07
 90.00 23 16 16 4131.43 -2.17 168.16 233.53 61.76 24 25 7 3531.4 -5.93 161.49
 100.00 7 3 40 2575.34 -29.86 65.24 240.29 91.53 7 46 35 1975.3 -29.33 56.47
 100.00 0 28 11 3912.03 -.83 151.28 232.78 60.12 1 33 23 3312.0 -4.80 144.74
 110.00 8 40 23 2272.74 -33.73 41.96 239.99 95.88 9 18 15 1672.7 -32.55 32.93
 110.00 1 7 57 3787.39 2.47 139.77 230.72 55.90 2 11 4 3187.4 -2.02 133.57

DIFFERENTIAL CORRECTIONS

TOE 1.1172 TRA 1.7575 TC3-1.5044 BAU .3807
 RDE -.4483 RRA-1.1195 RC3 .6011 FAU .12057
 FDE 7.1950 FRA11.6065 FC3-5.9378 BSP 10649
 BDE 1.2038 BRA 2.0838 BC3 1.6200 FSP -6005

MID-COURSE EXECUTION ACCURACY

SGT 3239.2 SGR 1815.3 SG3 1745.2
 RRT -.9789 RRF -.9865 RTF .9886
 SGB 3713.2 R23 .0436 R13 -.9919
 SG1 3698.9 SG2 324.5 THA 151.01

ORBIT DETERMINATION ACCURACY

ST 1709.9 SR 784.5 SS 3061.9
 CRT -.9785 CRS .9805 CST -.9999
 LSA 3590.4 MSA 153.1 SSA 13.1
 EL1 1875.4 EL2 147.6 ALF 155.66

LAUNCH DATE NOV 19 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 521.997

RL 147.83 LAL .00 LOL 56.73 VL 27.908 GAL 6.14 AZL 87.87 MCA 226.95 SMA 130.54 ECC .16966 INC 2.1300 V1 30.139
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.703 GAP 2.02 AZP 91.45 TAL 147.06 TAP 14.01 RCA 108.39 APO 152.69 V2 34.810
 RC 85.328 GL 14.06 GP 18.31 ZAL 38.10 ZAP 111.89 ETS 7.90 ZAE 141.20 ETE 157.12 ZAC 81.11 ETC 168.12 CLP-113.12

PLANETOCENTRIC CONIC

C3 18.027 VHL 4.246 DLA 21.15 RAL 13.74 RAD 6567.7 VEL 11.807 PTH 2.09 VHP 3.271 DPA 9.96 RAP 345.38 ECC 1.2967
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 20 21 2917.30 -28.28 90.40 240.98 88.52 6 8 58 2317.3 -28.19 81.74
 90.00 23 24 29 4106.54 -2.97 166.76 234.09 61.83 24 32 55 3506.5 -6.72 160.09
 100.00 6 56 1 2608.84 -29.89 67.73 241.00 90.22 7 39 30 2008.8 -29.54 58.94
 100.00 0 35 26 3890.23 -1.57 150.09 233.31 60.14 1 40 16 3290.2 -5.53 143.54
 110.00 8 34 28 2300.80 -33.91 44.13 240.80 94.60 9 12 49 1700.8 -32.90 35.04
 110.00 1 13 28 3771.04 1.84 138.92 231.18 55.86 2 16 19 3171.0 -2.65 132.72

DIFFERENTIAL CORRECTIONS

TOE 1.3173 TRA 2.0352 TC3-1.6208 BAU .4115
 RDE -.3809 RRA-1.0147 RC3 .5366 FAU .11446
 FDE 7.0127 FRA11.1174 FC3-5.4970 BSP 11741
 BDE 1.3712 BRA 2.2741 BC3 1.7073 FSP -5803

MID-COURSE EXECUTION ACCURACY

SGT 3704.9 SGR 1621.0 SG3 1662.2
 RRT -.9765 RRF -.9816 RTF .9908
 SGB 4043.9 R23 .0312 R13 -.9924
 SG1 4031.2 SG2 320.9 THA 156.71

ORBIT DETERMINATION ACCURACY

ST 1985.5 SR 677.0 SS 3002.6
 CRT -.9696 CRS .9720 CST -.9999
 LSA 3659.3 MSA 159.3 SSA 12.9
 EL1 2091.8 EL2 157.3 ALF 161.60

LAUNCH DATE NOV 19 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 528.217

RL 147.83 LAL .00 LOL 56.73 VL 27.904 GAL 6.24 AZL 87.76 MCA 230.11 SMA 130.51 ECC .17097 INC 2.2424 V1 30.139
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.695 GAP 2.44 AZP 91.44 TAL 146.74 TAP 16.85 RCA 108.20 APO 152.83 V2 34.804
 RC 87.691 GL 14.60 GP 16.91 ZAL 38.03 ZAP 116.61 ETS 8.91 ZAE 138.74 ETE 160.60 ZAC 79.89 ETC 168.23 CLP-117.91

PLANETOCENTRIC CONIC

C3 18.534 VHL 4.305 DLA 21.75 RAL 13.77 RAD 6567.8 VEL 11.829 PTH 2.09 VHP 3.364 DPA 8.05 RAP 344.50 ECC 1.3050
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 12 54 2951.19 -28.20 92.88 241.73 87.28 6 2 5 2351.2 -28.28 84.21
 90.00 23 32 9 4085.62 -3.65 165.59 234.76 61.90 24 40 15 3485.6 -7.38 158.90
 100.00 6 49 29 2639.77 -29.88 70.03 241.80 89.01 7 33 29 2039.8 -29.70 61.23
 100.00 0 42 12 3872.27 -2.17 149.10 233.94 60.18 1 46 44 3272.3 -6.13 142.54
 110.00 8 29 33 2326.69 -34.03 46.15 241.69 93.42 9 8 20 1726.7 -33.18 37.01
 110.00 1 18 37 3758.12 1.35 138.25 231.74 55.84 2 21 15 3158.1 -3.14 132.04

DIFFERENTIAL CORRECTIONS

TOE 1.5091 TRA 2.2980 TC3-1.7161 BAU .4413
 RDE -.3152 RRA -.9195 RC3 .4763 FAU .10701
 FDE 6.7485 FRA10.5577 FC3-4.9986 BSP 12880
 BDE 1.5417 BRA 2.4752 BC3 1.7810 FSP -5532

MID-COURSE EXECUTION ACCURACY

SGT 4130.4 SGR 1442.3 SG3 1564.9
 RRT -.9714 RRF -.9748 RTF .9920
 SGB 4375.0 R23 .0218 R13 -.9929
 SG1 4363.0 SG2 323.9 THA 161.15

ORBIT DETERMINATION ACCURACY

ST 2238.7 SR 576.5 SS 2925.1
 CRT -.9558 CRS .9588 CST -.9999
 LSA 3724.6 MSA 165.1 SSA 12.8
 EL1 2305.9 EL2 164.6 ALF 166.10

LAUNCH DATE NOV 19 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 534.413

RL 147.83 LAL .00 LOL 56.73 VL 27.898 GAL 6.36 AZL 87.66 HCA 233.28 SMA 130.47 ECC .17254 INC 2.3449 V1 30.139
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.686 GAP 2.86 AZP 91.40 TAL 146.39 TAP 19.67 RCA 107.96 APO 152.99 V2 34.799
 RC 90.065 GL 15.04 GP 15.61 ZAL 37.90 ZAP 121.06 ETS 9.76 ZAE 136.35 ETE 163.40 ZAC 78.92 ETC 168.23 CLP-122.39

PLANETOCENTRIC CONIC

C3 19.104 VHL 4.371 DLA 22.28 RAL 13.87 RAD 6567.8 VEL 11.853 PTH 2.10 VHP 3.478 DPA 6.36 RAP 343.85 ECC 1.3144
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 30 2982.75 -28.07 95.18 242.56 86.13 5 56 13 2382.8 -28.31 86.52
 90.00 23 39 21 4068.32 -4.20 164.63 235.52 61.97 24 47 9 3468.3 -7.92 157.92
 100.00 6 43 58 2668.53 -29.82 72.16 242.67 87.88 7 28 26 2068.5 -29.80 63.36
 100.00 0 48 31 3857.78 -2.67 148.30 234.67 60.22 1 52 49 3257.8 -6.61 141.74
 110.00 8 25 31 2350.79 -34.11 48.02 242.66 92.31 9 4 42 1750.8 -33.42 38.85
 110.00 1 23 27 3748.28 .97 137.73 232.40 55.83 2 25 55 3148.3 -3.52 131.53

DIFFERENTIAL CORRECTIONS

TDE 1.6933 TRA 2.5490 TC3-1.7873 BAU .4689
 RDE -.2530 RRA -.8349 RC3 .4204 FAU .09847
 FDE 6.4371 FRA 9.9714 FC3-4.4624 BSP 13973
 BOE 1.7121 BRA 2.6822 BC3 1.8360 FSP -5199

MID-COURSE EXECUTION ACCURACY

SGT 4517.3 SGR 1282.2 SG3 1461.0
 RRT -.9636 RRF -.9658 RTF .9927
 SGB 4695.7 R23 .0152 R13 -.9932
 SG1 4684.1 SG2 330.6 THA 164.63

ORBIT DETERMINATION ACCURACY

ST 2470.3 SR 485.9 SS 2838.0
 CRT -.9341 CRS .9381 CST -.9999
 LSA 3789.9 MSA 170.6 SSA 12.7
 EL1 2511.9 EL2 170.5 ALF 169.54

LAUNCH DATE NOV 19 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 540.583

RL 147.83 LAL .00 LOL 56.73 VL 27.892 GAL 6.50 AZL 87.56 HCA 236.44 SMA 130.43 ECC .17436 INC 2.4392 V1 30.139
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.677 GAP 3.28 AZP 91.35 TAL 146.00 TAP 22.45 RCA 107.69 APO 153.17 V2 34.795
 RC 92.449 GL 15.39 GP 14.43 ZAL 37.73 ZAP 125.22 ETS 10.48 ZAE 134.08 ETE 165.64 ZAC 78.22 ETC 168.15 CLP-126.55

PLANETOCENTRIC CONIC

C3 19.743 VHL 4.443 DLA 22.73 RAL 14.03 RAD 6567.8 VEL 11.880 PTH 2.11 VHP 3.612 DPA 4.89 RAP 343.43 ECC 1.3249
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 1 5 3012.28 -27.92 97.32 243.47 85.06 5 51 17 2412.3 -28.31 88.68
 90.00 23 46 6 4054.37 -4.65 163.84 236.37 62.04 24 53 40 3454.4 -8.35 157.12
 100.00 6 39 21 2695.39 -29.74 74.16 243.62 86.84 7 24 17 2095.4 -29.86 65.35
 100.00 0 54 26 3846.49 -3.05 147.68 235.49 60.25 1 58 33 3246.5 -6.98 141.11
 110.00 8 22 17 2373.39 -34.16 49.79 243.70 91.27 9 1 50 1773.4 -33.61 40.59
 110.00 1 28 0 3741.26 .71 137.37 233.15 55.82 2 30 21 3141.3 -3.78 131.16

DIFFERENTIAL CORRECTIONS

TDE 1.8661 TRA 2.7860 TC3-1.8407 BAU .4957
 RDE -.1940 RRA -.7594 RC3 .3720 FAU .09011
 FDE 6.0856 FRA 9.3690 FC3-3.9516 BSP 15065
 BOE 1.8762 BRA 2.8876 BC3 1.8780 FSP -4867

MID-COURSE EXECUTION ACCURACY

SGT 4861.7 SGR 1139.7 SG3 1353.7
 RRT -.9525 RRF -.9537 RTF .9931
 SGB 4993.5 R23 .0105 R13 -.9933
 SG1 4982.0 SG2 338.8 THA 167.35

ORBIT DETERMINATION ACCURACY

ST 2675.5 SR 405.1 SS 2739.2
 CRT -.8992 CRS .8944 CST -.9999
 LSA 3846.4 MSA 175.8 SSA 12.6
 EL1 2700.3 EL2 175.6 ALF 172.21

LAUNCH DATE NOV 19 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 546.727

RL 147.83 LAL .00 LOL 56.73 VL 27.884 GAL 6.66 AZL 87.47 HCA 239.60 SMA 130.37 ECC .17644 INC 2.5268 V1 30.139
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.668 GAP 3.71 AZP 91.28 TAL 145.59 TAP 25.19 RCA 107.37 APO 153.37 V2 34.791
 RC 94.840 GL 15.66 GP 13.35 ZAL 37.50 ZAP 129.10 ETS 11.09 ZAE 131.96 ETE 167.44 ZAC 77.79 ETC 168.02 CLP-130.41

PLANETOCENTRIC CONIC

C3 20.456 VHL 4.523 DLA 23.11 RAL 14.26 RAD 6567.8 VEL 11.910 PTH 2.12 VHP 3.764 DPA 3.64 RAP 343.22 ECC 1.3367
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 33 3039.98 -27.74 99.33 244.46 84.07 5 47 13 2440.0 -28.27 90.70
 90.00 23 52 26 4043.57 -4.99 163.24 237.30 62.09 24 59 49 3443.6 -8.69 156.51
 100.00 6 35 36 2720.61 -29.63 76.02 244.65 85.86 7 20 57 2120.6 -29.89 67.23
 100.00 1 0 0 3838.17 -3.33 147.22 236.39 60.28 2 3 58 3238.2 -7.26 140.64
 110.00 8 19 46 2394.71 -34.18 51.45 244.83 90.28 8 59 41 1794.7 -33.77 42.23
 110.00 1 32 19 3736.83 .54 137.14 233.98 55.82 2 34 36 3136.8 -3.95 130.93

DIFFERENTIAL CORRECTIONS

TDE 2.0300 TRA 3.0140 TC3-1.8744 BAU .5204
 RDE -.1390 RRA -.6932 RC3 .3293 FAU .08179
 FDE 5.7229 FRA 8.7828 FC3-3.4614 BSP 16083
 BOE 2.0348 BRA 3.0926 BC3 1.9031 FSP -4524

MID-COURSE EXECUTION ACCURACY

SGT 5169.3 SGR 1015.5 SG3 1248.2
 RRT -.9375 RRF -.9379 RTF .9932
 SGB 5268.1 R23 .0072 R13 -.9934
 SG1 5256.6 SG2 347.5 THA 169.52

ORBIT DETERMINATION ACCURACY

ST 2857.8 SR 336.4 SS 2636.7
 CRT -.8427 CRS .8496 CST -.9999
 LSA 3898.7 MSA 180.7 SSA 12.6
 EL1 2871.9 EL2 180.2 ALF 174.31

LAUNCH DATE NOV 19 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 552.843

RL 147.83 LAL .00 LOL 56.73 VL 27.875 GAL 6.83 AZL 87.39 HCA 242.76 SMA 130.31 ECC .17879 INC 2.6090 V1 30.139
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.659 GAP 4.13 AZP 91.19 TAL 145.15 TAP 27.91 RCA 107.01 APO 153.60 V2 34.788
 RC 97.236 GL 15.86 GP 12.37 ZAL 37.23 ZAP 132.71 ETS 11.63 ZAE 130.02 ETE 168.90 ZAC 77.60 ETC 167.86 CLP-133.98

PLANETOCENTRIC CONIC

C3 21.250 VHL 4.610 DLA 23.44 RAL 14.54 RAD 6567.9 VEL 11.943 PTH 2.13 VHP 3.932 DPA 2.58 RAP 343.23 ECC 1.3497
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 53 3066.04 -27.54 101.21 245.53 83.15 5 43 59 2466.0 -28.20 92.61
 90.00 0 2 17 4035.77 -5.24 162.80 238.32 62.13 1 9 33 3435.8 -8.93 156.06
 100.00 6 32 39 2744.37 -29.50 77.78 245.76 84.95 7 18 23 2144.4 -29.89 68.99
 100.00 1 5 12 3832.67 -3.51 146.92 237.37 60.30 2 9 5 3232.7 -7.44 140.34
 110.00 8 17 56 2414.97 -34.18 53.03 246.04 89.34 8 58 11 1815.0 -33.89 43.80
 110.00 1 36 24 3734.84 .46 137.03 234.89 55.82 2 38 39 3134.8 -4.03 130.82

DIFFERENTIAL CORRECTIONS

TDE 2.1857 TRA 3.2348 TC3-1.8892 BAU .5431
 RDE -.0882 RRA -.6352 RC3 .2916 FAU .07367
 FDE 5.3635 FRA 8.2246 FC3-3.0012 BSP 17033
 BOE 2.1875 BRA 3.2966 BC3 1.9116 FSP -4187

MID-COURSE EXECUTION ACCURACY

SGT 5442.3 SGR 908.2 SG3 1147.0
 RRT -.9180 RRF -.9175 RTF .9932
 SGB 5517.5 R23 .0048 R13 -.9933
 SG1 5506.0 SG2 356.1 THA 171.25

ORBIT DETERMINATION ACCURACY

ST 3018.5 SR 280.6 SS 2533.5
 CRT -.7528 CRS .7619 CST -.9999
 LSA 3946.4 MSA 185.2 SSA 12.6
 EL1 3025.9 EL2 184.2 ALF 175.98

LAUNCH DATE NOV 19 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 558.931

RL 147.83 LAL .00 LOL 56.73 VL 27.865 GAL 7.02 AZL 87.31 MCA 245.92 SMA 130.24 ECC .18142 INC 2.6865 V1 30.139
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.649 GAP 4.57 AZP 91.10 TAL 144.68 TAP 30.60 RCA 106.61 APO 153.86 V2 34.786
 RC 99.636 GL 15.99 GP 11.49 ZAL 36.92 ZAP 136.06 ETS 12.12 ZAE 128.24 ETE 170.08 ZAC 77.64 ETC 167.69 CLP-137.29

PLANETOCENTRIC CONIC

C3 22.132 VHL 4.705 DLA 23.72 RAL 14.87 RAD 6567.9 VEL 11.980 PTH 2.14 VHP 4.115 DPA 1.71 RAP 343.44 ECC 1.3642
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 1 3090.60 -27.33 102.98 246.68 82.29 5 41 32 2490.6 -28.12 94.40
 90.00 0 7 48 4030.85 -5.40 162.52 239.41 62.16 1 14 59 3430.9 -9.08 155.78
 100.00 6 30 26 2766.83 -29.36 79.43 246.96 84.09 7 16 33 2166.8 -29.86 70.66
 100.00 1 10 4 3829.86 -3.61 146.77 238.42 60.31 2 13 54 3229.9 -7.53 140.18
 110.00 8 16 43 2434.31 -34.15 54.54 247.32 88.45 8 57 18 1834.3 -33.99 45.30
 110.00 1 40 17 3735.14 .47 137.05 235.88 55.82 2 42 32 3135.1 -4.02 130.84

DIFFERENTIAL CORRECTIONS

TOE 2.3342 TRA 3.4517 TC3-1.8871 BAU .5636
 ROE -.0412 RRA -.5847 RC3 .2588 FAU .06597
 FDE 5.0165 FRA 7.7038 FC3-2.5806 BSP 17896
 BOE 2.3346 BRA 3.5009 BC3 1.9048 FSP -3861

MID-COURSE EXECUTION ACCURACY

SGT 5684.9 SGR 816.6 SG3 1052.0
 RRT -.8932 RRF -.8920 RTF .9930
 SGB 5743.2 R23 .0031 R13 -.9931
 SG1 5731.6 SG2 364.2 THA 172.66

ORBIT DETERMINATION ACCURACY

ST 3159.4 SR 238.8 SS 2431.8
 CRT -.6155 CRS .6271 CST -.9999
 LSA 3989.6 MSA 189.4 SSA 12.6
 EL1 3162.9 EL2 188.0 ALF 177.33

LAUNCH DATE NOV 19 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 564.989

RL 147.83 LAL .00 LOL 56.73 VL 27.854 GAL 7.23 AZL 87.24 MCA 249.09 SMA 130.16 ECC .18434 INC 2.7603 V1 30.139
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.640 GAP 5.01 AZP 90.99 TAL 144.18 TAP 33.26 RCA 106.17 APO 154.15 V2 34.784
 RC 102.038 GL 16.07 GP 10.70 ZAL 36.57 ZAP 139.17 ETS 12.57 ZAE 126.63 ETE 171.05 ZAC 77.90 ETC 167.51 CLP-140.36

PLANETOCENTRIC CONIC

C3 23.113 VHL 4.808 DLA 23.95 RAL 15.26 RAD 6567.9 VEL 12.020 PTH 2.15 VHP 4.312 DPA 1.02 RAP 343.83 ECC 1.3804
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 47 55 3113.78 -27.11 104.64 247.91 81.48 5 39 49 2513.8 -28.01 96.09
 90.00 0 12 56 4028.74 -5.46 162.40 240.56 62.17 1 20 5 3428.7 -9.15 155.66
 100.00 6 28 55 2788.14 -29.20 81.00 248.23 83.28 7 15 24 2188.1 -29.82 72.25
 100.00 1 14 37 3829.62 -3.62 146.75 239.55 60.31 2 18 27 3229.6 -7.54 140.17
 110.00 8 16 5 2452.89 -34.11 55.99 248.69 87.59 8 56 58 1852.9 -34.07 46.75
 110.00 1 43 58 3737.63 .57 137.18 236.94 55.82 2 46 15 3137.6 -3.92 130.97

DIFFERENTIAL CORRECTIONS

TOE 2.4794 TRA 3.6698 TC3-1.8646 BAU .5805
 ROE .0021 RRA -.5408 RC3 .2291 FAU .05840
 FDE 4.6935 FRA 7.2295 FC3-2.1876 BSP 18617
 BOE 2.4794 BRA 3.7094 BC3 1.8786 FSP -3537

MID-COURSE EXECUTION ACCURACY

SGT 5903.2 SGR 738.9 SG3 964.4
 RRT -.8627 RRF -.8607 RTF .9928
 SGB 5949.3 R23 .0016 R13 -.9928
 SG1 5937.7 SG2 371.5 THA 173.81

ORBIT DETERMINATION ACCURACY

ST 3285.6 SR 211.7 SS 2335.5
 CRT -.4267 CRS .4408 CST -.9999
 LSA 4032.0 MSA 193.3 SSA 12.7
 EL1 3286.8 EL2 191.4 ALF 178.42

LAUNCH DATE NOV 19 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 571.015

RL 147.83 LAL .00 LOL 56.73 VL 27.842 GAL 7.46 AZL 87.17 MCA 252.25 SMA 130.07 ECC .18756 INC 2.8311 V1 30.139
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.630 GAP 5.45 AZP 90.86 TAL 143.66 TAP 35.90 RCA 105.68 APO 154.47 V2 34.783
 RC 104.441 GL 16.09 GP 9.98 ZAL 36.18 ZAP 142.06 ETS 13.02 ZAE 125.18 ETE 171.85 ZAC 78.36 ETC 167.34 CLP-143.21

PLANETOCENTRIC CONIC

C3 24.202 VHL 4.920 DLA 24.15 RAL 15.68 RAD 6568.0 VEL 12.066 PTH 2.16 VHP 4.524 DPA .48 RAP 344.38 ECC 1.3983
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 34 3135.68 -26.88 106.20 249.22 80.73 5 38 50 2535.7 -27.88 97.68
 90.00 0 17 41 4029.36 -5.44 162.44 241.79 62.17 1 24 50 3429.4 -9.13 155.69
 100.00 6 28 4 2808.39 -29.03 82.48 249.58 82.52 7 14 53 2208.4 -29.76 75.75
 100.00 1 18 51 3831.88 -3.54 146.88 240.74 60.30 2 22 43 3231.9 -7.47 140.29
 110.00 8 15 58 2470.82 -34.05 57.39 250.13 86.77 8 57 9 1870.8 -34.12 48.15
 110.00 1 47 27 3742.21 .74 137.42 238.07 55.82 2 49 49 3142.2 -3.75 131.21

DIFFERENTIAL CORRECTIONS

TOE 2.6162 TRA 3.8847 TC3-1.8341 BAU .5971
 ROE .0428 RRA -.5017 RC3 .2040 FAU .05180
 FDE 4.3839 FRA 6.7881 FC3-1.8530 BSP 19348
 BOE 2.6165 BRA 3.9169 BC3 1.8454 FSP -3254

MID-COURSE EXECUTION ACCURACY

SGT 6092.9 SGR 672.9 SG3 883.0
 RRT -.8257 RRF -.8229 RTF .9925
 SGB 6129.9 R23 .0004 R13 -.9925
 SG1 6118.2 SG2 378.0 THA 174.77

ORBIT DETERMINATION ACCURACY

ST 3391.0 SR 198.5 SS 2239.4
 CRT -.1992 CRS .2154 CST -.9998
 LSA 4063.8 MSA 196.8 SSA 12.7
 EL1 3391.3 EL2 194.6 ALF 179.33

LAUNCH DATE NOV 19 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 577.007

RL 147.83 LAL .00 LOL 56.73 VL 27.830 GAL 7.71 AZL 87.10 MCA 255.41 SMA 129.98 ECC .19110 INC 2.8994 V1 30.139
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.621 GAP 5.91 AZP 90.73 TAL 143.11 TAP 38.51 RCA 105.14 APO 154.82 V2 34.783
 RC 106.844 GL 16.07 GP 9.34 ZAL 35.76 ZAP 144.75 ETS 13.46 ZAE 123.86 ETE 172.51 ZAC 78.99 ETC 167.19 CLP-145.86

PLANETOCENTRIC CONIC

C3 25.411 VHL 5.041 DLA 24.30 RAL 16.14 RAD 6568.0 VEL 12.116 PTH 2.17 VHP 4.749 DPA .08 RAP 345.09 ECC 1.4182
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 55 3156.37 -26.64 107.67 250.62 80.03 5 38 31 2556.4 -27.75 99.18
 90.00 0 22 2 4032.65 -5.34 162.62 243.08 62.15 1 29 14 3432.7 -9.03 155.88
 100.00 6 27 51 2827.71 -28.85 83.88 251.01 81.80 7 14 59 2227.7 -29.68 75.18
 100.00 1 22 47 3836.55 -3.38 147.13 242.00 60.28 2 26 43 3236.5 -7.31 140.55
 110.00 8 16 22 2488.22 -33.97 58.74 251.66 85.97 8 57 50 1888.2 -34.16 49.50
 110.00 1 50 45 3748.81 .99 137.76 239.27 55.83 2 53 14 3148.8 -3.50 131.55

DIFFERENTIAL CORRECTIONS

TOE 2.7494 TRA 4.1029 TC3-1.7901 BAU .6113
 ROE .0809 RRA -.4670 RC3 .1816 FAU .04565
 FDE 4.0978 FRA 6.3885 FC3-1.5553 BSP 19996
 BOE 2.7506 BRA 4.1294 BC3 1.7993 FSP -2989

MID-COURSE EXECUTION ACCURACY

SGT 6261.3 SGR 617.4 SG3 808.8
 RRT -.7820 RRF -.7784 RTF .9921
 SGB 6291.6 R23 -.0006 R13 -.9921
 SG1 6279.9 SG2 383.7 THA 175.57

ORBIT DETERMINATION ACCURACY

ST 3482.0 SR 197.5 SS 2148.0
 CRT .0275 CRS -.0102 CST -.9998
 LSA 4091.1 MSA 200.0 SSA 12.9
 EL1 3482.0 EL2 197.5 ALF .09

LAUNCH DATE NOV 19 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC
 RL 147.83 LAL .00 LOL 56.73 VL 27.816 GAL 7.99 AZL 87.03 HCA 258.57 SMA 129.89 ECC .19499 INC 2.9658 V1 30.139
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.612 GAP 6.38 AZP 90.59 TAL 142.54 TAP 41.11 RCA 104.56 APO 155.22 V2 34.784
 RC 109.246 GL 15.99 GP 8.77 ZAL 35.30 ZAP 147.27 ETS 13.92 ZAE 122.68 ETE 173.07 ZAC 79.77 ETC 167.04 CLP-148.34

PLANETOCENTRIC CONIC
 C3 26.754 VHL 5.172 DLA 24.42 RAL 16.64 RAD 6568.1 VEL 12.171 PTH 2.18 VHP 4.987 DPA -.19 RAP 345.94 ECC 1.4403
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 56 3175.95 -26.40 109.05 252.09 79.38 5 38 52 2576.0 -27.60 100.59
 90.00 0 25 59 4038.57 -5.15 162.95 244.43 62.12 1 33 18 3438.6 -8.84 156.22
 100.00 6 28 13 2846.18 -28.66 85.23 252.52 81.12 7 15 39 2246.2 -29.59 76.55
 100.00 1 26 23 3843.58 -3.15 147.52 243.32 60.26 2 30 27 3243.6 -7.08 140.95
 110.00 8 17 13 2505.16 -33.88 60.06 253.26 85.20 8 58 58 1905.2 -34.18 50.83
 110.00 1 53 53 3757.36 1.32 138.21 240.54 55.84 2 56 30 3157.4 -3.17 132.00

DIFFERENTIAL CORRECTIONS
 TOE 2.8799 TRA 4.3262 TC3-1.7354 BAU .6234
 ROE .1169 RRA -.4359 RC3 .1618 FAU .04002
 FDE 3.8352 FRA 6.0276 FC3-1.2951 BSP 20582
 BOE 2.8823 BRA 4.3481 BC3 1.7429 FSP -2745

MID-COURSE EXECUTION ACCURACY
 SGT 6410.8 SGR 570.9 SG3 741.3
 RRT -.7318 RRF -.7273 RTF .9918
 SGB 6436.1 R23 -.0016 R13 -.9918
 SG1 6424.4 SG2 388.3 THA 176.26

ORBIT DETERMINATION ACCURACY
 ST 3559.9 SR 205.2 SS 2061.5
 CRT .2211 CRS -.2035 CST -.9998
 LSA 4113.8 MSA 202.8 SSA 12.8
 EL1 3560.1 EL2 200.1 ALF .73

LAUNCH DATE NOV 19 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC
 RL 147.83 LAL .00 LOL 56.73 VL 27.802 GAL 8.29 AZL 86.97 HCA 261.73 SMA 129.79 ECC .19923 INC 3.0307 V1 30.139
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.602 GAP 6.86 AZP 90.44 TAL 141.95 TAP 43.68 RCA 103.93 APO 155.65 V2 34.785
 RC 111.645 GL 15.88 GP 8.26 ZAL 34.82 ZAP 149.62 ETS 14.42 ZAE 121.61 ETE 173.54 ZAC 80.70 ETC 166.91 CLP-150.66

PLANETOCENTRIC CONIC
 C3 28.248 VHL 5.315 DLA 24.51 RAL 17.17 RAD 6568.1 VEL 12.232 PTH 2.20 VHP 5.240 DPA -.34 RAP 346.90 ECC 1.4649
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 36 3194.50 -26.16 110.36 253.64 78.77 5 39 50 2594.5 -27.45 101.93
 90.00 0 29 33 4047.07 -4.88 163.43 245.84 62.07 1 37 0 3447.1 -8.58 156.71
 100.00 6 29 8 2863.89 -28.47 86.51 254.11 80.47 7 16 52 2263.9 -29.49 77.85
 100.00 1 29 42 3852.91 -2.83 148.03 244.70 60.23 2 33 55 3252.9 -6.77 141.47
 110.00 8 18 30 2521.74 -33.78 61.34 254.93 84.44 9 0 32 1921.7 -34.18 52.12
 110.00 1 56 49 3767.82 1.72 138.75 241.87 55.85 2 59 37 3167.8 -2.77 132.55

DIFFERENTIAL CORRECTIONS
 TOE 3.0083 TRA 4.5559 TC3-1.6711 BAU .6334
 ROE .1510 RRA -.4076 RC3 .1439 FAU .03487
 FDE 3.5944 FRA 5.7021 FC3-1.0687 BSP 21107
 BOE 3.0121 BRA 4.5741 BC3 1.6772 FSP -2521

MID-COURSE EXECUTION ACCURACY
 SGT 6542.7 SGR 532.1 SG3 680.0
 RRT -.6751 RRF -.6699 RTF .9914
 SGB 6564.3 R23 -.0025 R13 -.9914
 SG1 6552.6 SG2 391.9 THA 176.85

ORBIT DETERMINATION ACCURACY
 ST 3625.2 SR 218.0 SS 1979.6
 CRT .3710 CRS -.3537 CST -.9998
 LSA 4131.1 MSA 205.3 SSA 12.8
 EL1 3626.1 EL2 202.4 ALF 1.28

LAUNCH DATE NOV 19 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC
 RL 147.83 LAL .00 LOL 56.73 VL 27.787 GAL 8.61 AZL 86.91 HCA 264.89 SMA 129.69 ECC .20387 INC 3.0946 V1 30.139
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.593 GAP 7.35 AZP 90.28 TAL 141.35 TAP 46.23 RCA 103.25 APO 156.12 V2 34.787
 RC 114.042 GL 15.74 GP 7.79 ZAL 34.31 ZAP 151.83 ETS 14.95 ZAE 120.65 ETE 173.94 ZAC 81.74 ETC 166.80 CLP-152.85

PLANETOCENTRIC CONIC
 C3 29.911 VHL 5.469 DLA 24.56 RAL 17.73 RAD 6568.2 VEL 12.300 PTH 2.22 VHP 5.506 DPA -.39 RAP 347.97 ECC 1.4923
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 47 52 3212.10 -25.93 111.59 255.26 78.19 5 41 24 2612.1 -27.29 103.19
 90.00 0 32 44 4058.09 -4.53 164.05 247.30 62.02 1 40 22 3458.1 -8.24 157.33
 100.00 6 30 35 2880.94 -28.27 87.74 255.77 79.85 7 18 36 2280.9 -29.38 79.11
 100.00 1 32 42 3864.48 -2.44 148.67 246.14 60.20 2 37 6 3264.5 -6.39 142.11
 110.00 8 20 11 2538.04 -33.67 62.60 256.68 83.71 9 2 29 1938.0 -34.17 53.40
 110.00 1 59 35 3780.14 2.19 139.39 243.25 55.88 3 2 35 3180.1 -2.30 133.19

DIFFERENTIAL CORRECTIONS
 TOE 3.1393 TRA 4.7979 TC3-1.5939 BAU .6394
 ROE .1836 RRA -.3816 RC3 .1275 FAU .02992
 FDE 3.3794 FRA 5.4139 FC3 -.8661 BSP 21504
 BOE 3.1446 BRA 4.8131 BC3 1.5990 FSP -2307

MID-COURSE EXECUTION ACCURACY
 SGT 6663.2 SGR 499.7 SG3 624.9
 RRT -.6127 RRF -.6066 RTF .9909
 SGB 6681.9 R23 -.0034 R13 -.9909
 SG1 6670.3 SG2 394.4 THA 177.36

ORBIT DETERMINATION ACCURACY
 ST 3683.4 SR 233.2 SS 1905.0
 CRT .4815 CRS -.4647 CST -.9998
 LSA 4148.2 MSA 207.3 SSA 12.8
 EL1 3685.1 EL2 204.3 ALF 1.75

LAUNCH DATE NOV 19 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC
 RL 147.83 LAL .00 LOL 56.73 VL 27.772 GAL 8.97 AZL 86.84 HCA 268.05 SMA 129.58 ECC .20892 INC 3.1578 V1 30.139
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.585 GAP 7.86 AZP 90.11 TAL 140.73 TAP 48.78 RCA 102.51 APO 156.65 V2 34.790
 RC 116.435 GL 15.55 GP 7.37 ZAL 33.79 ZAP 153.92 ETS 15.54 ZAE 119.78 ETE 174.30 ZAC 82.90 ETC 166.70 CLP-154.91

PLANETOCENTRIC CONIC
 C3 31.765 VHL 5.636 DLA 24.59 RAL 18.31 RAD 6568.3 VEL 12.375 PTH 2.23 VHP 5.788 DPA -.34 RAP 349.13 ECC 1.5228
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 43 3228.82 -25.69 112.76 256.96 77.65 5 43 32 2628.8 -27.13 104.39
 90.00 0 35 31 4071.58 -4.10 164.81 248.81 61.96 1 43 22 3471.6 -7.82 158.10
 100.00 6 32 31 2897.38 -28.06 88.92 257.51 79.26 7 20 49 2297.4 -29.26 80.32
 100.00 1 35 24 3878.24 -1.97 149.43 247.63 60.17 2 40 2 3278.2 -5.93 142.87
 110.00 8 22 14 2554.12 -33.54 63.84 258.50 82.98 9 4 48 1954.1 -34.15 54.65
 110.00 2 2 10 3794.27 2.73 140.13 244.70 55.91 3 5 25 3194.3 -1.76 133.93

DIFFERENTIAL CORRECTIONS
 TOE 3.2662 TRA 5.0462 TC3-1.5149 BAU .6451
 ROE .2152 RRA -.3570 RC3 .1130 FAU .02566
 FDE 3.1785 FRA 5.1505 FC3 -.6993 BSP 21946
 BOE 3.2733 BRA 5.0588 BC3 1.5191 FSP -2123

MID-COURSE EXECUTION ACCURACY
 SGT 6765.2 SGR 472.6 SG3 574.5
 RRT -.5450 RRF -.5382 RTF .9905
 SGB 6781.7 R23 -.0042 R13 -.9905
 SG1 6770.1 SG2 396.0 THA 177.81

ORBIT DETERMINATION ACCURACY
 ST 3727.2 SR 249.4 SS 1832.3
 CRT .5632 CRS -.5471 CST -.9998
 LSA 4155.4 MSA 209.0 SSA 12.7
 EL1 3729.8 EL2 206.0 ALF 2.17

LAUNCH DATE NOV 20 1968

FLIGHT TIME 70.00

ARRIVAL DATE JAN 29 1969

HELIOCENTRIC CONIC

DISTANCE 123.105

RL 147.80 LAL .00 LOL 57.74 VL 14.120 GAL 38.77 AZL 88.83 MCA 27.98 SMA 83.13 ECC .87181 INC 1.1722 V1 30.145
 RP 107.69 LAP .55 LOP 85.72 VP 29.465 GAP -59.15 AZP 88.96 TAL 172.86 TAP 200.84 RCA 10.66 APO 155.60 V2 35.188
 RC 100.871 GL .61 GP -1.09 ZAL 64.34 ZAP 38.66 ETS 176.37 ZAE 128.27 ETE 183.60 ZAC 41.52 ETC 154.63 CLP 38.65

PLANETOCENTRIC CONIC

C3 450.784 VHL 21.232 CLA -2.06 RAL 353.70 RAD 6572.2 VEL 23.918 PTH 3.31 VHP 32.179 DPA -22.69 RAP 307.54 ECC 8.4188
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 14 49 2767.00 -28.05 79.42 259.06 94.01 8 0 56 2167.0 -27.20 70.86
 90.00 18 42 16 5538.89 28.31 257.71 261.26 90.66 20 14 35 4938.9 28.10 249.05
 100.00 8 35 12 2507.71 -29.63 60.22 258.93 94.16 9 17 0 1907.7 -28.74 51.53
 100.00 20 4 34 5273.42 29.89 238.21 261.28 90.59 21 32 28 4673.4 29.65 229.41
 110.00 9 41 14 2300.97 -33.91 44.15 258.54 94.59 10 19 35 1701.0 -32.90 35.05
 110.00 21 15 1 5052.92 34.18 221.51 261.33 90.37 22 39 14 4452.9 33.86 212.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0101 TRA-2.3685 TC3 -.1044 BAU .6297 SGT 824.5 SGR 460.4 SG3 21.5 ST 333.6 SR 410.8 SS 338.1
 RDE-1.5031 RRA .8029 RC3 -.0047 FAU .01018 RRT -.0507 RRF .0455 RTF -.6146 CRT 7158 CRS 7609 CST .9960
 FDE .3849 FRA .7804 FC3 -.0196 BSP 1942 SGB 944.4 R23 -.0003 R13 .6148 LSA 586.4 MSA 224.3 SSA 14.2
 BOE 1.8110 BRA 2.5009 BC3 .1045 FSP -44 SGI 825.0 SG2 459.5 TMA 177.65 EL1 492.2 EL2 194.5 ALF 53.16

LAUNCH DATE NOV 20 1968

FLIGHT TIME 72.00

ARRIVAL DATE JAN 31 1969

HELIOCENTRIC CONIC

DISTANCE 128.150

RL 147.80 LAL .00 LOL 57.74 VL 14.959 GAL 36.72 AZL 88.58 MCA 31.22 SMA 84.42 ECC .84832 INC 1.4245 V1 30.145
 RP 107.67 LAP .74 LOP 88.95 VP 29.887 GAP -56.58 AZP 88.78 TAL 171.91 TAP 203.12 RCA 12.80 APO 156.03 V2 35.198
 RC 98.647 GL .84 GP -1.11 ZAL 62.90 ZAP 37.12 ETS 176.33 ZAE 127.96 ETE 183.91 ZAC 43.09 ETC 155.44 CLP 37.10

PLANETOCENTRIC CONIC

C3 416.089 VHL 20.398 CLA -1.28 RAL 354.94 RAD 6572.2 VEL 23.182 PTH 3.28 VHP 31.083 DPA -22.36 RAP 309.34 ECC 7.8478
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 13 57 2784.00 -28.13 80.66 260.15 93.39 8 0 21 2184.0 -27.36 72.08
 90.00 18 53 2 5507.24 28.31 255.40 261.51 89.50 20 24 49 4907.2 27.94 246.75
 100.00 8 34 42 2523.53 -29.70 61.39 260.04 93.55 9 16 45 1923.5 -28.89 52.68
 100.00 20 14 58 5242.94 29.89 235.94 261.50 89.39 21 42 21 4642.9 29.48 227.16
 110.00 9 41 34 2314.17 -33.98 45.17 259.71 93.99 10 20 9 1714.2 -33.05 36.06
 110.00 21 24 35 5025.07 34.17 219.34 261.43 89.09 22 48 20 4425.1 33.67 210.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0214 TRA-2.3981 TC3 -.1117 BAU .6221 SGT 862.5 SGR 466.7 SG3 23.2 ST 351.2 SR 415.7 SS 354.4
 RDE-1.4611 RRA .7871 RC3 -.0055 FAU .01014 RRT -.0522 RRF .0470 RTF -.6332 CRT 7146 CRS 7622 CST .9958
 FDE .4020 FRA .8094 FC3 -.0211 BSP 2062 SGB 980.7 R23 -.0004 R13 .6333 LSA 607.0 MSA 230.5 SSA 14.4
 BOE 1.7827 BRA 2.5240 BC3 .1118 FSP -48 SGI 863.0 SG2 465.8 TMA 177.72 EL1 505.3 EL2 202.1 ALF 51.67

LAUNCH DATE NOV 20 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 2 1969

HELIOCENTRIC CONIC

DISTANCE 133.345

RL 147.80 LAL .00 LOL 57.74 VL 15.753 GAL 34.86 AZL 88.37 MCA 34.45 SMA 85.75 ECC .82420 INC 1.6335 V1 30.145
 RP 107.64 LAP .92 LOP 92.18 VP 30.303 GAP -54.15 AZP 88.65 TAL 170.95 TAP 205.40 RCA 15.08 APO 156.43 V2 35.206
 RC 96.423 GL 1.08 GP -1.13 ZAL 61.49 ZAP 35.60 ETS 176.29 ZAE 127.70 ETE 184.24 ZAC 44.69 ETC 156.20 CLP 35.59

PLANETOCENTRIC CONIC

C3 384.278 VHL 19.603 CLA -.50 RAL 356.13 RAD 6572.1 VEL 22.485 PTH 3.26 VHP 30.023 DPA -22.00 RAP 311.16 ECC 7.3242
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 12 57 2800.32 -28.19 81.85 261.15 92.80 7 59 37 2200.3 -27.50 73.25
 90.00 19 3 33 5475.45 28.27 253.07 261.69 88.34 20 34 48 4875.4 27.74 244.45
 100.00 8 34 4 2538.69 -29.76 62.52 261.06 92.96 9 16 22 1938.7 -29.03 53.79
 100.00 20 25 7 5212.31 29.84 233.67 261.64 88.20 21 52 0 4612.3 29.27 224.91
 110.00 9 41 46 2326.74 -34.03 46.15 260.78 93.42 10 20 33 1726.7 -33.19 37.01
 110.00 21 33 54 4997.02 34.12 217.15 261.46 87.79 22 57 11 4397.0 33.44 207.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0299 TRA-2.4256 TC3 -.1190 BAU .6122 SGT 900.5 SGR 472.5 SG3 24.9 ST 368.9 SR 420.2 SS 370.6
 RDE-1.4189 RRA .7701 RC3 -.0064 FAU .01012 RRT -.0540 RRF .0487 RTF -.6510 CRT 7129 CRS 7633 CST .9956
 FDE .4190 FRA .8385 FC3 -.0228 BSP 2255 SGB 1017.0 R23 -.0003 R13 .6511 LSA 627.6 MSA 236.3 SSA 14.6
 BOE 1.7533 BRA 2.5449 BC3 .1192 FSP -53 SGI 901.0 SG2 471.6 TMA 177.76 EL1 518.3 EL2 209.7 ALF 50.19

LAUNCH DATE NOV 20 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 4 1969

HELIOCENTRIC CONIC

DISTANCE 138.680

RL 147.80 LAL .00 LOL 57.74 VL 16.504 GAL 33.18 AZL 88.19 MCA 37.69 SMA 87.11 ECC .79965 INC 1.8108 V1 30.145
 RP 107.61 LAP 1.11 LOP 95.41 VP 30.709 GAP -51.84 AZP 88.57 TAL 169.99 TAP 207.68 RCA 17.45 APO 156.77 V2 35.214
 RC 94.200 GL 1.33 GP -1.16 ZAL 60.14 ZAP 34.11 ETS 176.24 ZAE 127.50 ETE 184.58 ZAC 46.33 ETC 156.91 CLP 34.09

PLANETOCENTRIC CONIC

C3 355.070 VHL 18.843 CLA .27 RAL 357.28 RAD 6572.0 VEL 21.826 PTH 3.23 VHP 28.997 DPA -21.63 RAP 312.99 ECC 6.8435
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 11 50 2815.99 -28.24 82.99 262.08 92.23 7 58 46 2216.0 -27.63 74.38
 90.00 19 13 49 5443.47 28.19 250.74 261.80 87.17 20 44 32 4843.5 27.50 242.14
 100.00 8 33 18 2553.21 -29.81 63.60 262.01 92.39 9 15 51 1953.2 -29.16 54.85
 100.00 20 35 2 5181.49 29.76 231.38 261.71 87.00 22 1 24 4581.5 29.02 222.65
 110.00 9 41 49 2338.70 -34.08 47.08 261.78 92.87 10 20 48 1738.7 -33.50 37.93
 110.00 21 43 0 4968.76 34.02 214.95 261.42 86.49 23 5 48 4368.8 33.16 205.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0411 TRA-2.4563 TC3 -.1268 BAU .6030 SGT 941.5 SGR 477.7 SG3 26.8 ST 388.1 SR 424.1 SS 387.4
 RDE-1.3763 RRA .7521 RC3 -.0075 FAU .01009 RRT -.0553 RRF .0502 RTF -.6683 CRT 7116 CRS 7644 CST .9955
 FDE .4367 FRA .8684 FC3 -.0246 BSP 2392 SGB 1055.8 R23 -.0005 R13 .6684 LSA 649.5 MSA 241.9 SSA 14.8
 BOE 1.7258 BRA 2.5689 BC3 .1270 FSP -58 SGI 942.0 SG2 476.7 TMA 177.84 EL1 532.2 EL2 217.3 ALF 48.56

LAUNCH DATE NOV 20 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 6 1969

HELIOCENTRIC CONIC

DISTANCE 144.148

RL 147.80 LAL .00 LOL 57.74 VL 17.214 GAL 31.62 AZL 88.04 MCA 40.93 SMA 88.51 ECC .77485 INC 1.9640 V1 30.145
 RP 107.59 LAP 1.29 LOP 98.65 VP 31.105 GAP -49.66 AZP 88.52 TAL 169.04 TAP 209.96 RCA 19.93 APO 157.08 V2 35.222
 RC 91.981 GL 1.59 GP -1.19 ZAL 58.83 ZAP 32.64 ETS 176.18 ZAE 127.36 ETE 184.94 ZAC 48.00 ETC 157.59 CLP 32.62

PLANETOCENTRIC CONIC

C3 328.214 VHL 18.117 DLA 1.03 RAL 358.38 RAD 6571.8 VEL 21.202 PTH 3.20 VHP 28.003 DPA -21.22 RAP 314.85 ECC 6.4016
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 10 35 2831.01 -28.27 84.09 262.93 91.68 7 57 46 2231.0 -27.74 75.46
 90.00 19 23 51 5411.28 28.06 248.39 261.83 86.00 20 54 2 4811.3 27.21 239.83
 100.00 8 32 24 2567.09 -29.84 64.63 262.87 91.85 9 15 11 1967.1 -29.26 55.87
 100.00 20 44 43 5150.43 29.62 229.08 261.70 85.79 22 10 33 4550.4 28.72 220.39
 110.00 9 41 44 2350.04 -34.11 47.96 262.69 92.34 10 20 54 1750.0 -33.41 38.79
 110.00 21 51 52 4940.24 33.88 212.73 261.31 85.19 23 14 12 4340.2 32.85 203.65

DIFFERENTIAL CORRECTIONS

TDE-1.0524 TRA-2.4874 TC3 -.1349 BAU .5931
 RDE-1.3336 RRA .7331 RC3 -.0086 FAU .01008
 FDE .4546 FRA .8987 FC3 -.0266 BSP 2532
 BDE 1.6989 BRA 2.5932 BC3 .1352 FSP -63

MID-COURSE EXECUTION ACCURACY

SGT 984.3 SGR 482.3 SG3 28.8
 RRT -.0565 RRF .0516 RTF -.6851
 SGB 1096.1 R23 -.0007 R13 .6852
 SG1 984.7 SG2 481.3 THA 177.92

ORBIT DETERMINATION ACCURACY

ST 408.3 SR 427.5 SS 404.5
 CRT .7103 CRS .7655 CST .9953
 LSA 672.1 MSA 247.3 SSA 15.1
 EL1 546.8 EL2 224.7 ALF 46.85

LAUNCH DATE NOV 20 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 8 1969

HELIOCENTRIC CONIC

DISTANCE 149.741

RL 147.80 LAL .00 LOL 57.74 VL 17.886 GAL 30.19 AZL 87.90 MCA 44.17 SMA 89.92 ECC .74996 INC 2.0985 V1 30.145
 RP 107.57 LAP 1.46 LOP 101.89 VP 31.489 GAP -47.58 AZP 88.49 TAL 168.09 TAP 212.25 RCA 22.48 APO 157.35 V2 35.229
 RC 89.765 GL 1.86 GP -1.22 ZAL 57.57 ZAP 31.20 ETS 176.11 ZAE 127.28 ETE 185.31 ZAC 49.69 ETC 158.23 CLP 31.18

PLANETOCENTRIC CONIC

C3 303.492 VHL 17.421 DLA 1.78 RAL 359.43 RAD 6571.7 VEL 20.611 PTH 3.17 VHP 27.039 DPA -20.80 RAP 316.71 ECC 5.9947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 9 11 2845.39 -28.30 85.14 263.69 91.15 7 56 36 2245.4 -27.84 76.51
 90.00 19 33 40 5378.81 27.88 246.03 261.80 84.83 21 3 19 4778.8 26.87 237.51
 100.00 8 31 21 2580.34 -29.87 65.61 263.65 91.33 9 14 22 1980.3 -29.36 56.84
 100.00 20 54 11 5119.10 29.44 226.77 261.63 84.59 22 19 30 4519.1 28.38 218.13
 110.00 9 41 30 2360.77 -34.14 48.80 263.51 91.85 10 20 51 1760.8 -33.51 39.62
 110.00 22 0 31 4911.43 33.70 210.50 261.13 83.88 23 22 23 4311.4 32.48 201.48

DIFFERENTIAL CORRECTIONS

TDE-1.0633 TRA-2.5182 TC3 -.1432 BAU .5824
 RDE-1.2908 RRA .7132 RC3 -.0099 FAU .01009
 FDE .4730 FRA .9296 FC3 -.0288 BSP 2686
 BDE 1.6723 BRA 2.6172 BC3 .1435 FSP -68

MID-COURSE EXECUTION ACCURACY

SGT 1028.5 SGR 486.3 SG3 30.9
 RRT -.0576 RRF .0529 RTF -.7012
 SGB 1137.7 R23 -.0009 R13 .7013
 SG1 1029.0 SG2 485.3 THA 177.99

ORBIT DETERMINATION ACCURACY

ST 429.3 SR 430.3 SS 422.0
 CRT .7089 CRS .7664 CST .9951
 LSA 695.5 MSA 252.3 SSA 15.3
 EL1 561.9 EL2 231.9 ALF 45.10

LAUNCH DATE NOV 20 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 10 1969

HELIOCENTRIC CONIC

DISTANCE 155.450

RL 147.80 LAL .00 LOL 57.74 VL 18.520 GAL 28.84 AZL 87.78 MCA 47.41 SMA 91.35 ECC .72512 INC 2.2182 V1 30.145
 RP 107.55 LAP 1.63 LOP 105.13 VP 31.860 GAP -45.60 AZP 88.50 TAL 167.14 TAP 214.55 RCA 25.11 APO 157.58 V2 35.235
 RC 87.555 GL 2.15 GP -1.26 ZAL 56.35 ZAP 29.77 ETS 176.02 ZAE 127.27 ETE 185.70 ZAC 51.41 ETC 158.83 CLP 29.75

PLANETOCENTRIC CONIC

C3 280.714 VHL 16.755 DLA 2.53 RAL .45 RAD 6571.6 VEL 20.051 PTH 3.14 VHP 26.103 DPA -20.36 RAP 318.59 ECC 5.6198
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 7 39 2859.15 -28.31 86.15 264.37 90.65 7 55 18 2259.2 -27.92 77.50
 90.00 19 43 16 5346.04 27.66 243.66 261.70 83.66 21 12 22 4746.0 26.49 235.19
 100.00 8 30 10 2592.97 -29.88 66.55 264.35 90.84 9 13 23 1993.0 -29.45 57.77
 100.00 21 3 26 5087.45 29.22 224.44 261.50 83.38 22 28 13 4487.4 27.99 215.85
 110.00 9 41 7 2370.89 -34.16 49.59 264.25 91.38 10 20 38 1770.9 -33.59 40.39
 110.00 22 8 58 4882.30 33.46 208.26 260.88 82.57 23 30 20 4282.3 32.07 199.30

DIFFERENTIAL CORRECTIONS

TDE-1.0742 TRA-2.5489 TC3 -.1518 BAU .5711
 RDE-1.2478 RRA .6926 RC3 -.0113 FAU .01010
 FDE .4918 FRA .9611 FC3 -.0312 BSP 2843
 BDE 1.6465 BRA 2.6413 BC3 .1522 FSP -75

MID-COURSE EXECUTION ACCURACY

SGT 1074.6 SGR 489.6 SG3 33.2
 RRT -.0586 RRF .0542 RTF -.7167
 SGB 1180.9 R23 -.0012 R13 .7168
 SG1 1075.1 SG2 488.5 THA 178.07

ORBIT DETERMINATION ACCURACY

ST 451.3 SR 432.6 SS 439.8
 CRT .7076 CRS .7674 CST .9949
 LSA 719.8 MSA 256.9 SSA 15.4
 EL1 577.8 EL2 238.8 ALF 43.29

LAUNCH DATE NOV 20 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 161.270

RL 147.80 LAL .00 LOL 57.74 VL 19.118 GAL 27.58 AZL 87.67 MCA 50.65 SMA 92.79 ECC .70043 INC 2.3261 V1 30.145
 RP 107.53 LAP 1.80 LOP 108.37 VP 32.218 GAP -43.70 AZP 88.52 TAL 166.20 TAP 216.85 RCA 27.80 APO 157.78 V2 35.240
 RC 85.353 GL 2.45 GP -1.30 ZAL 55.18 ZAP 28.37 ETS 175.91 ZAE 127.31 ETE 186.11 ZAC 53.16 ETC 159.41 CLP 28.34

PLANETOCENTRIC CONIC

C3 259.709 VHL 16.115 DLA 3.28 RAL 1.41 RAD 6571.5 VEL 19.520 PTH 3.11 VHP 25.194 DPA -19.89 RAP 320.48 ECC 5.2741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 5 57 2872.31 -28.32 87.11 264.96 90.16 7 53 49 2272.3 -27.99 78.46
 90.00 19 52 40 5312.91 27.38 241.27 261.53 82.49 21 21 13 4712.9 26.06 232.86
 100.00 8 28 50 2605.00 -29.89 67.44 264.95 90.37 9 12 15 2005.0 -29.52 58.66
 100.00 21 12 29 5055.45 28.94 222.10 261.29 82.18 22 36 45 4455.4 27.56 213.57
 110.00 9 40 35 2380.41 -34.17 50.34 264.90 90.94 10 20 15 1780.4 -33.66 41.13
 110.00 22 17 13 4852.80 33.18 206.00 260.57 81.27 23 38 6 4252.8 31.62 197.13

DIFFERENTIAL CORRECTIONS

TDE-1.0850 TRA-2.5791 TC3 -.1605 BAU .5592
 RDE-1.2047 RRA .6712 RC3 -.0128 FAU .01014
 FDE .5111 FRA .9932 FC3 -.0338 BSP 3009
 BDE 1.6213 BRA 2.6650 BC3 .1611 FSP -81

MID-COURSE EXECUTION ACCURACY

SGT 1122.5 SGR 492.3 SG3 35.6
 RRT -.0595 RRF .0553 RTF -.7316
 SGB 1225.7 R23 -.0015 R13 .7317
 SG1 1123.0 SG2 491.2 THA 178.15

ORBIT DETERMINATION ACCURACY

ST 474.3 SR 434.3 SS 458.1
 CRT .7063 CRS .7683 CST .9946
 LSA 745.0 MSA 261.1 SSA 15.6
 EL1 594.5 EL2 245.3 ALF 41.44

LAUNCH DATE NOV 20 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 167.194

RL 147.80 LAL .00 LOL 57.74 VL 19.684 GAL 26.40 AZL 87.58 HCA 53.90 SMA 94.23 ECC .67600 INC 2.4244 V1 30.145
 RP 107.52 LAP 1.96 LOP 111.61 VP 32.562 GAP -41.90 AZP 88.57 TAL 165.27 TAP 219.17 RCA 30.53 APO 157.93 V2 35.245
 RC 83.158 GL 2.76 GP -1.34 ZAL 54.05 ZAP 26.98 ETS 175.78 ZAE 127.42 ETE 186.54 ZAC 54.93 ETC 159.95 CLP 26.95

PLANETOCENTRIC CONIC

C3 240.327 VHL 15.502 DLA 4.02 RAL 2.33 RAD 6571.4 VEL 19.017 PTH 3.08 VHP 24.312 OPA -19.40 RAP 322.38 ECC 4.9552
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 6 2884.89 -28.32 88.03 265.47 89.70 7 52 11 2284.9 -28.06 79.37
 90.00 20 1 53 5279.38 27.06 238.87 261.30 81.33 21 29 53 4679.4 25.59 230.52
 100.00 8 27 19 2616.45 -29.89 68.29 265.48 89.92 9 10 56 2016.5 -29.58 59.50
 100.00 21 21 21 5023.05 28.62 219.75 261.02 80.98 22 45 4 4423.0 27.08 211.29
 110.00 9 39 53 2389.35 -34.18 51.03 265.46 90.53 10 19 42 1789.3 -33.73 41.82
 110.00 22 25 17 4822.91 32.85 203.74 260.20 79.96 23 45 40 4222.9 31.12 194.94

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0954 TRA-2.6084 TC3 -.1695 BAU .5466 SGT 1172.2 SGR 494.2 SG3 38.2 ST 498.2 SR 435.4 SS 476.8
 RDE-1.1617 RRA .6493 RC3 -.0146 FAU .01019 RRT -.0603 RRF .0564 RTF -.7459 CRT .7050 CRS .7692 CST .9944
 FDE .5309 FRA 1.0261 FC3 -.0367 BSP 3186 SGB 1272.1 R23 -.0018 R13 .7460 LSA 771.1 MSA 264.9 SSA 15.8
 BOE 1.5967 BRA 2.6880 BC3 .1701 FSP -88 SG1 1172.6 SG2 493.1 TMA 178.23 EL1 612.0 EL2 251.3 ALF 39.57

LAUNCH DATE NOV 20 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 173.213

RL 147.80 LAL .00 LOL 57.74 VL 20.218 GAL 25.28 AZL 87.49 HCA 57.14 SMA 95.68 ECC .65191 INC 2.5150 V1 30.145
 RP 107.51 LAP 2.11 LOP 114.86 VP 32.892 GAP -40.17 AZP 88.63 TAL 164.36 TAP 221.50 RCA 33.30 APO 158.05 V2 35.249
 RC 80.975 GL 3.08 GP -1.39 ZAL 52.96 ZAP 25.61 ETS 175.62 ZAE 127.59 ETE 186.99 ZAC 56.72 ETC 160.46 CLP 25.57

PLANETOCENTRIC CONIC

C3 222.435 VHL 14.914 DLA 4.75 RAL 3.21 RAD 6571.3 VEL 18.541 PTH 3.05 VHP 23.454 OPA -18.89 RAP 324.29 ECC 4.6607
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 2 4 2896.92 -28.31 88.91 265.89 89.26 7 50 21 2296.9 -28.11 80.25
 90.00 20 10 56 5245.40 26.69 236.46 261.00 80.17 21 38 21 4645.4 25.06 228.17
 100.00 8 25 39 2627.34 -29.89 69.10 265.91 89.49 9 9 26 2027.3 -29.64 60.31
 100.00 21 30 2 4990.21 28.25 217.38 260.69 79.79 22 53 12 4390.2 26.55 208.99
 110.00 9 39 1 2397.72 -34.18 51.69 265.93 90.14 10 18 59 1797.7 -33.79 42.47
 110.00 22 33 9 4792.60 32.47 201.45 259.76 78.66 23 53 2 4192.6 30.56 192.75

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1057 TRA-2.6369 TC3 -.1786 BAU .5334 SGT 1223.7 SGR 495.5 SG3 41.1 ST 523.2 SR 435.8 SS 496.0
 RDE-1.1187 RRA .6268 RC3 -.0164 FAU .01025 RRT -.0609 RRF .0574 RTF -.7596 CRT .7038 CRS .7701 CST .9942
 FDE .5514 FRA 1.0598 FC3 -.0399 BSP 3369 SGB 1320.2 R23 -.0021 R13 .7597 LSA 798.4 MSA 268.2 SSA 15.9
 BOE 1.5729 BRA 2.7103 BC3 .1794 FSP -96 SG1 1224.2 SG2 494.4 TMA 178.31 EL1 630.6 EL2 256.9 ALF 37.69

LAUNCH DATE NOV 20 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 179.323

RL 147.80 LAL .00 LOL 57.74 VL 20.722 GAL 24.21 AZL 87.40 HCA 60.39 SMA 97.12 ECC .62824 INC 2.5991 V1 30.145
 RP 107.50 LAP 2.26 LOP 118.10 VP 33.208 GAP -38.51 AZP 88.72 TAL 163.46 TAP 223.84 RCA 36.11 APO 158.14 V2 35.253
 RC 78.802 GL 3.42 GP -1.44 ZAL 51.93 ZAP 24.25 ETS 175.43 ZAE 127.84 ETE 187.46 ZAC 58.53 ETC 160.94 CLP 24.21

PLANETOCENTRIC CONIC

C3 205.912 VHL 14.350 DLA 5.48 RAL 4.05 RAD 6571.2 VEL 18.090 PTH 3.01 VHP 22.620 OPA -18.37 RAP 326.20 ECC 4.3888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 59 52 2908.43 -28.30 89.75 266.23 88.84 7 48 20 2308.4 -28.16 81.09
 90.00 20 19 48 5210.95 26.27 234.02 260.65 79.02 21 46 39 4610.9 24.49 225.81
 100.00 8 23 48 2637.71 -29.88 69.87 266.26 89.09 9 7 46 2037.7 -29.69 61.07
 100.00 21 38 33 4956.90 27.82 215.00 260.31 78.60 23 1 10 4356.9 25.97 206.69
 110.00 9 37 59 2405.55 -34.18 52.30 266.31 89.78 10 18 4 1805.6 -33.84 43.07
 110.00 22 40 51 4761.82 32.03 199.16 259.27 77.37 24 0 13 4161.8 29.96 190.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1153 TRA-2.6637 TC3 -.1878 BAU .5194 SGT 1276.8 SGR 496.0 SG3 44.1 ST 548.9 SR 435.6 SS 515.7
 RDE-1.0757 RRA .6040 RC3 -.0185 FAU .01034 RRT -.0615 RRF .0584 RTF -.7727 CRT .7026 CRS .7710 CST .9939
 FDE .5726 FRA 1.0943 FC3 -.0435 BSP 3571 SGB 1369.8 R23 -.0025 R13 .7728 LSA 826.6 MSA 271.0 SSA 16.1
 BOE 1.5496 BRA 2.7313 BC3 .1887 FSP -105 SG1 1277.2 SG2 494.9 TMA 178.39 EL1 650.1 EL2 261.8 ALF 35.82

LAUNCH DATE NOV 20 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 185.518

RL 147.80 LAL .00 LOL 57.74 VL 21.197 GAL 23.20 AZL 87.32 HCA 63.63 SMA 98.56 ECC .60506 INC 2.6780 V1 30.145
 RP 107.49 LAP 2.40 LOP 121.35 VP 33.509 GAP -36.92 AZP 88.81 TAL 162.57 TAP 226.21 RCA 38.93 APO 158.20 V2 35.255
 RC 76.644 GL 3.78 GP -1.49 ZAL 50.93 ZAP 22.91 ETS 175.19 ZAE 128.15 ETE 187.96 ZAC 60.36 ETC 161.40 CLP 22.87

PLANETOCENTRIC CONIC

C3 190.651 VHL 13.808 DLA 6.21 RAL 4.84 RAD 6571.0 VEL 17.663 PTH 2.98 VHP 21.810 OPA -17.82 RAP 328.12 ECC 4.1376
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 57 28 2919.46 -28.28 90.56 266.48 88.44 7 46 8 2319.5 -28.20 81.89
 90.00 20 28 31 5175.97 25.79 231.57 260.24 77.89 21 54 47 4576.0 23.86 223.43
 100.00 8 21 46 2647.58 -29.87 70.61 266.53 88.70 9 5 53 2047.6 -29.73 61.81
 100.00 21 46 54 4923.08 27.34 212.60 259.86 77.43 23 8 57 4323.1 25.34 204.37
 110.00 9 36 46 2412.87 -34.18 52.87 266.61 89.44 10 16 59 1812.9 -33.88 43.64
 110.00 22 48 24 4730.56 31.54 196.85 258.72 76.09 24 7 14 4130.6 29.31 188.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1279 TRA-2.6923 TC3 -.1977 BAU .5066 SGT 1334.2 SGR 495.8 SG3 47.4 ST 577.1 SR 434.7 SS 536.3
 RDE-1.0329 RRA .5808 RC3 -.0208 FAU .01043 RRT -.0613 RRF .0590 RTF -.7851 CRT .7020 CRS .7720 CST .9937
 FDE .5950 FRA 1.1302 FC3 -.0474 BSP 3704 SGB 1423.3 R23 -.0033 R13 .7852 LSA 857.1 MSA 273.3 SSA 16.2
 BOE 1.5294 BRA 2.7542 BC3 .1988 FSP -113 SG1 1334.6 SG2 494.7 TMA 178.49 EL1 671.8 EL2 266.0 ALF 33.88

LAUNCH DATE NOV 20 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 21.646 GAL 22.24 AZL 87.25 HCA 66.88 SMA 99.99 ECC .58240 INC 2.7527 VI 30.145
 RP 107.48 LAP 2.53 LOP 124.60 VP 33.797 GAP -35.39 AZP 88.92 TAL 161.70 TAP 228.59 RCA 41.76 APO 158.22 V2 35.257
 RC 74.503 GL 4.15 GP -1.55 ZAL 49.98 ZAP 21.58 ETS 174.91 ZAE 128.54 ETE 188.49 ZAC 62.20 ETC 161.84 CLP 21.53

PLANETOCENTRIC CONIC
 C3 176.554 VHL 13.287 DLA 6.94 RAL 5.59 RAD 6570.9 VEL 17.259 PTH 2.95 VMP 21.022 DPA -17.26 RAP 330.03 ECC 3.9056
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 52 2930.05 -28.26 91.33 266.65 88.05 7 43 42 2330.1 -28.23 82.67
 90.00 20 37 5 5140.43 25.26 229.10 259.77 76.76 22 2 46 4540.4 23.19 221.05
 100.00 8 19 32 2657.00 -29.85 71.31 266.71 88.33 9 3 49 2057.0 -29.76 62.50
 100.00 21 55 7 4888.71 26.81 210.18 259.36 76.26 23 16 35 4288.7 24.66 202.04
 110.00 9 35 21 2419.70 -34.17 53.40 266.82 89.13 10 15 41 1819.7 -33.92 44.17
 110.00 22 55 47 4698.78 31.00 194.53 258.12 74.81 24 14 5 4098.8 28.60 186.15

DIFFERENTIAL CORRECTIONS
 TDE -1.1408 TRA -2.7199 TC3 -.2078 BAU .4936 SGT 1393.9 SGR 494.8 SG3 50.9 ST 606.6 SR 433.2 SS 557.7
 RDE -.9903 RRA .5575 RC3 -.0232 FAU .01053 RRT -.0608 RRF .0596 RTF -.7970 CRT .7017 CRS .7731 CST .9936
 FDE .6185 FRA 1.1673 FC3 -.0517 BSP 3832 SGB 1479.1 R23 -.0042 R13 .7970 LSA 889.2 MSA 274.9 SSA 16.4
 BDE 1.5107 BRA 2.7764 BC3 .2091 FSP -122 SG1 1394.3 SG2 493.7 THA 178.59 EL1 695.0 EL2 269.4 ALF 31.97

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 20 1968

FLIGHT TIME 96.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 22.069 GAL 21.33 AZL 87.18 HCA 70.13 SMA 101.40 ECC .56032 INC 2.8238 VI 30.145
 RP 107.48 LAP 2.66 LOP 127.85 VP 34.071 GAP -33.93 AZP 89.04 TAL 160.86 TAP 230.98 RCA 44.58 APO 158.22 V2 35.258
 RC 72.381 GL 4.54 GP -1.61 ZAL 49.08 ZAP 20.27 ETS 174.56 ZAE 129.01 ETE 189.05 ZAC 64.06 ETC 162.25 CLP 20.21

PLANETOCENTRIC CONIC
 C3 163.540 VHL 12.788 DLA 7.67 RAL 6.30 RAD 6570.8 VEL 16.878 PTH 2.91 VMP 20.256 DPA -16.69 RAP 331.95 ECC 3.6915
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 52 3 2940.27 -28.23 92.08 266.73 87.67 7 41 3 2340.3 -28.25 83.41
 90.00 20 45 32 5104.28 24.67 226.62 259.25 75.64 22 10 36 4504.3 22.46 218.65
 100.00 8 17 5 2666.02 -29.83 71.98 266.80 87.98 9 1 31 2066.0 -29.79 63.17
 100.00 22 3 11 4853.77 26.22 207.75 258.81 75.11 23 24 5 4253.8 23.92 199.71
 110.00 9 33 45 2426.09 -34.17 53.90 266.94 88.83 10 14 11 1826.1 -33.95 44.66
 110.00 23 3 1 4666.46 30.40 192.21 257.48 73.56 24 20 47 4066.5 27.85 183.94

DIFFERENTIAL CORRECTIONS
 TDE -1.1737 TRA -2.7661 TC3 -.2231 BAU .4910 SGT 1471.6 SGR 493.0 SG3 54.8 ST 646.2 SR 430.8 SS 582.0
 RDE -.9479 RRA .5341 RC3 -.0258 FAU .01053 RRT -.0564 RRF .0590 RTF -.8076 CRT .7047 CRS .7747 CST .9938
 FDE .6458 FRA 1.2084 FC3 -.0557 BSP 3482 SGB 1552.0 R23 -.0077 R13 .8076 LSA 930.5 MSA 275.3 SSA 16.7
 BDE 1.5087 BRA 2.8172 BC3 .2246 FSP -126 SG1 1471.9 SG2 492.1 THA 178.78 EL1 727.7 EL2 271.4 ALF 29.70

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 20 1968

FLIGHT TIME 98.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 22.468 GAL 20.45 AZL 87.11 HCA 73.38 SMA 102.80 ECC .53882 INC 2.8920 VI 30.145
 RP 107.48 LAP 2.77 LOP 131.10 VP 34.331 GAP -32.51 AZP 89.17 TAL 160.03 TAP 233.40 RCA 47.41 APO 158.19 V2 35.259
 RC 70.281 GL 4.95 GP -1.68 ZAL 48.23 ZAP 18.96 ETS 174.14 ZAE 129.56 ETE 189.65 ZAC 65.93 ETC 162.64 CLP 18.89

PLANETOCENTRIC CONIC
 C3 151.484 VHL 12.308 DLA 8.40 RAL 6.95 RAD 6570.6 VEL 16.517 PTH 2.88 VMP 19.510 DPA -16.10 RAP 333.87 ECC 3.4930
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 48 59 2950.10 -28.20 92.80 266.72 87.32 7 38 9 2350.1 -28.27 84.13
 90.00 20 53 51 5067.49 24.03 224.12 258.68 74.55 22 18 18 4467.5 21.68 216.23
 100.00 8 14 24 2674.63 -29.81 72.62 266.80 87.65 8 58 59 2074.6 -29.82 63.81
 100.00 22 11 7 4818.19 25.58 205.30 258.20 73.98 23 31 25 4218.2 23.13 197.36
 110.00 9 31 55 2432.03 -34.16 54.37 266.97 88.56 10 12 27 1832.0 -33.98 45.13
 110.00 23 10 5 4633.56 29.74 189.87 256.78 72.32 24 27 19 4033.6 27.04 181.73

DIFFERENTIAL CORRECTIONS
 TDE -1.1164 TRA -2.7200 TC3 -.2154 BAU .4402 SGT 1479.7 SGR 490.5 SG3 58.5 ST 646.4 SR 428.0 SS 597.0
 RDE -.9062 RRA .5101 RC3 -.0288 FAU .01113 RRT -.0693 RRF .0633 RTF -.8209 CRT .6927 CRS .7741 CST .9921
 FDE .6617 FRA 1.2383 FC3 -.0636 BSP 5295 SGB 1558.9 R23 .0006 R13 .8209 LSA 938.0 MSA 278.1 SSA 16.3
 BDE 1.4379 BRA 2.7674 BC3 .2173 FSP -157 SG1 1480.2 SG2 489.2 THA 178.52 EL1 724.7 EL2 275.3 ALF 29.26

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 20 1968

FLIGHT TIME 100.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 22.844 GAL 19.61 AZL 87.04 HCA 76.62 SMA 104.17 ECC .51798 INC 2.9580 VI 30.145
 RP 107.48 LAP 2.88 LOP 134.35 VP 34.578 GAP -31.15 AZP 89.32 TAL 159.22 TAP 235.84 RCA 50.21 APO 158.13 V2 35.259
 RC 68.209 GL 5.38 GP -1.76 ZAL 47.42 ZAP 17.67 ETS 173.62 ZAE 130.19 ETE 190.29 ZAC 67.81 ETC 163.01 CLP 17.58

PLANETOCENTRIC CONIC
 C3 140.380 VHL 11.848 DLA 9.12 RAL 7.57 RAD 6570.5 VEL 16.177 PTH 2.84 VMP 18.785 DPA -15.50 RAP 335.79 ECC 3.3103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 41 2959.73 -28.17 93.50 266.64 86.97 7 35 1 2359.7 -28.29 84.84
 90.00 21 2 4 5030.03 23.33 221.60 258.07 73.47 22 25 54 4430.0 20.84 213.81
 100.00 8 11 29 2683.00 -29.78 73.24 266.73 87.32 8 56 12 2083.0 -29.84 64.43
 100.00 22 18 57 4781.99 24.87 202.84 257.55 72.86 23 38 39 4182.0 22.29 195.00
 110.00 9 29 53 2437.67 -34.15 54.81 266.93 88.30 10 10 31 1837.7 -34.00 45.56
 110.00 23 17 3 4600.09 29.03 187.53 256.04 71.10 24 33 43 4000.1 26.17 179.51

DIFFERENTIAL CORRECTIONS
 TDE -1.1381 TRA -2.7513 TC3 -.2274 BAU .4309 SGT 1552.1 SGR 487.2 SG3 63.0 ST 683.1 SR 424.1 SS 621.8
 RDE -.8645 RRA .4868 RC3 -.0319 FAU .01125 RRT -.0667 RRF .0633 RTF -.8307 CRT .6945 CRS .7756 CST .9921
 FDE .6899 FRA 1.2805 FC3 -.0694 BSP 5220 SGB 1626.8 R23 -.0019 R13 .8307 LSA 977.6 MSA 277.7 SSA 16.5
 BDE 1.4292 BRA 2.7940 BC3 .2296 FSP -166 SG1 1552.5 SG2 486.0 THA 178.67 EL1 755.2 EL2 276.0 ALF 27.27

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 20 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 217.540

RL 147.80 LAL .00 LOL 57.74 VL 23.198 GAL 18.81 AZL 86.98 HCA 79.87 SMA 105.52 ECC .49780 INC 3.0222 V1 30.145
 RP 107.48 LAP 2.98 LOP 137.60 VP 34.812 GAP -29.84 AZP 89.47 TAL 158.44 TAP 238.31 RCA 52.99 APO 158.05 V2 35.257
 RC 66.167 GL 5.83 GP -1.84 ZAL 46.65 ZAP 16.38 ETS 172.98 ZAE 130.91 ETE 190.97 ZAC 69.71 ETC 163.36 CLP 16.28

PLANETOCENTRIC CONIC

C3 130.128 VHL 11.407 CLA 9.85 RAL 8.14 RAD 6570.4 VEL 15.858 PTH 2.81 VHP 18.081 DPA -14.89 RAP 337.71 ECC 3.1416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 7 2969.17 -28.13 94.19 266.47 86.62 7 31 37 2369.2 -28.30 85.53
 90.00 21 10 12 4991.86 22.56 219.06 257.41 72.42 22 33 24 4391.9 19.95 211.36
 100.00 8 8 20 2691.14 -29.76 73.84 266.57 87.00 8 53 11 2091.1 -29.85 65.04
 100.00 22 26 41 4745.12 24.11 200.37 256.86 71.77 23 45 46 4145.1 21.40 192.63
 110.00 9 27 37 2443.01 -34.13 55.22 266.80 88.05 10 8 20 1843.0 -34.03 45.98
 110.00 23 23 53 4566.01 28.25 185.18 255.26 69.90 24 39 59 3966.0 25.25 177.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1598 TRA -2.7805 TC3 -.2397 BAU .4215 SGT 1627.2 SGR 483.0 SG3 67.8 ST 721.4 SR 419.5 SS 647.5
 RDE -.8232 RRA .4636 RC3 -.0353 FAU .01139 RRT -.0638 RRF .0632 RTF -.8400 CRT .6964 CRS .7771 CST .9922
 FDE .7199 FRA 1.3245 FC3 -.0758 BSP 5147 SGB 1697.3 R23 -.0045 R13 .8400 LSA 1019.3 MSA 276.6 SSA 16.7
 BDE 1.4223 BRA 2.8189 BC3 .2423 FSP -176 SG1 1627.5 SG2 481.9 THA 178.81 EL1 787.7 EL2 275.8 ALF 25.37

LAUNCH DATE NOV 20 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 224.117

RL 147.80 LAL .00 LOL 57.74 VL 23.532 GAL 18.04 AZL 86.91 HCA 83.12 SMA 106.85 ECC .47830 INC 3.0851 V1 30.145
 RP 107.49 LAP 3.06 LOP 140.85 VP 35.033 GAP -28.57 AZP 89.63 TAL 157.68 TAP 240.80 RCA 55.74 APO 157.95 V2 35.256
 RC 64.161 GL 6.29 GP -1.94 ZAL 45.94 ZAP 15.10 ETS 172.18 ZAE 131.73 ETE 191.70 ZAC 71.61 ETC 163.69 CLP 14.98

PLANETOCENTRIC CONIC

C3 120.663 VHL 10.985 CLA 10.59 RAL 8.67 RAD 6570.3 VEL 15.556 PTH 2.77 VHP 17.396 DPA -14.27 RAP 339.62 ECC 2.9858
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 38 17 2978.50 -28.09 94.87 266.23 86.28 7 27 55 2378.5 -28.31 86.21
 90.00 21 18 16 4952.95 21.74 216.50 256.71 71.40 22 40 49 4352.9 19.00 208.90
 100.00 8 4 54 2699.14 -29.73 74.43 266.34 86.69 8 49 53 2099.1 -29.87 65.63
 100.00 22 34 20 4707.54 23.29 197.88 256.13 70.71 23 52 47 4107.5 20.44 190.24
 110.00 9 25 7 2448.13 -34.12 55.62 266.59 87.81 10 5 55 1848.1 -34.05 46.38
 110.00 23 30 36 4531.32 27.42 182.82 254.45 68.74 24 46 8 3931.3 24.28 175.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1718 TRA -2.7977 TC3 -.2491 BAU .4067 SGT 1696.2 SGR 478.1 SG3 73.0 ST 756.4 SR 414.1 SS 673.2
 RDE -.7825 RRA .4406 RC3 -.0389 FAU .01162 RRT -.0628 RRF .0638 RTF -.8491 CRT .6967 CRS .7785 CST .9920
 FDE .7502 FRA 1.3689 FC3 -.0834 BSP 5313 SGB 1762.3 R23 -.0059 R13 .8492 LSA 1058.7 MSA 275.2 SSA 16.8
 BDE 1.4090 BRA 2.8322 BC3 .2521 FSP -190 SG1 1696.5 SG2 477.0 THA 178.90 EL1 817.4 EL2 274.9 ALF 23.73

LAUNCH DATE NOV 20 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 230.739

RL 147.80 LAL .00 LOL 57.74 VL 23.846 GAL 17.31 AZL 86.85 HCA 86.36 SMA 108.14 ECC .45948 INC 3.1471 V1 30.145
 RP 107.50 LAP 3.14 LOP 144.10 VP 35.242 GAP -27.35 AZP 89.80 TAL 156.95 TAP 243.31 RCA 58.45 APO 157.83 V2 35.253
 RC 62.196 GL 6.78 GP -2.04 ZAL 45.27 ZAP 13.83 ETS 171.19 ZAE 132.65 ETE 192.49 ZAC 73.51 ETC 164.01 CLP 13.69

PLANETOCENTRIC CONIC

C3 111.929 VHL 10.580 CLA 11.33 RAL 9.15 RAD 6570.1 VEL 15.273 PTH 2.74 VHP 16.731 DPA -13.65 RAP 341.53 ECC 2.8421
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 7 2987.84 -28.05 95.55 265.90 85.95 7 23 55 2387.8 -28.32 86.89
 90.00 21 26 16 4913.26 20.86 213.93 255.97 70.40 22 48 9 4313.3 18.00 206.42
 100.00 8 1 10 2707.09 -29.69 75.02 266.03 86.39 8 46 17 2107.1 -29.88 66.22
 100.00 22 41 54 4669.24 22.41 195.38 255.37 69.68 23 59 43 4069.2 19.44 187.84
 110.00 9 22 20 2453.10 -34.11 56.01 266.30 87.58 10 3 13 1853.1 -34.07 46.77
 110.00 23 37 14 4495.99 26.52 180.47 253.60 67.60 24 52 10 3896.0 23.25 172.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1786 TRA -2.8074 TC3 -.2564 BAU .3889 SGT 1762.4 SGR 472.3 SG3 78.6 ST 790.0 SR 407.9 SS 699.5
 RDE -.7422 RRA .4180 RC3 -.0427 FAU .01192 RRT -.0630 RRF .0648 RTF -.8581 CRT .6964 CRS .7797 CST .9918
 FDE .7816 FRA 1.4145 FC3 -.0922 BSP 5605 SGB 1824.6 R23 -.0066 R13 .8581 LSA 1097.6 MSA 273.4 SSA 16.8
 BDE 1.3929 BRA 2.8384 BC3 .2599 FSP -207 SG1 1762.7 SG2 471.3 THA 178.96 EL1 846.0 EL2 273.4 ALF 22.22

LAUNCH DATE NOV 20 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 237.401

RL 147.80 LAL .00 LOL 57.74 VL 24.142 GAL 16.61 AZL 86.79 HCA 89.61 SMA 109.41 ECC .44135 INC 3.2088 V1 30.145
 RP 107.51 LAP 3.21 LOP 147.35 VP 35.440 GAP -26.17 AZP 89.98 TAL 156.24 TAP 245.85 RCA 61.12 APO 157.69 V2 35.250
 RC 60.278 GL 7.30 GP -2.15 ZAL 44.65 ZAP 12.57 ETS 169.92 ZAE 133.67 ETE 193.35 ZAC 75.42 ETC 164.31 CLP 12.39

PLANETOCENTRIC CONIC

C3 103.877 VHL 10.192 CLA 12.07 RAL 9.59 RAD 6570.0 VEL 15.007 PTH 2.70 VHP 16.084 DPA -13.02 RAP 343.43 ECC 2.7096
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 38 2997.28 -28.00 96.23 265.50 85.60 7 19 35 2397.3 -28.32 87.58
 90.00 21 34 14 4872.76 19.91 211.33 255.21 69.44 22 55 27 4272.8 16.93 203.92
 100.00 7 57 8 2715.08 -29.66 75.61 265.64 86.08 8 42 23 2115.1 -29.89 66.82
 100.00 22 49 25 4630.20 21.46 192.87 254.58 68.68 24 6 35 4030.2 18.37 185.43
 110.00 9 19 17 2458.01 -34.09 56.39 265.94 87.36 10 0 15 1858.0 -34.08 47.15
 110.00 23 43 45 4460.03 25.57 178.11 252.73 66.50 24 58 5 3860.0 22.17 170.60

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1868 TRA -2.8157 TC3 -.2634 BAU .3716 SGT 1831.3 SGR 465.7 SG3 84.7 ST 825.3 SR 400.8 SS 727.1
 RDE -.7025 RRA .3959 RC3 -.0468 FAU .01225 RRT -.0630 RRF .0660 RTF -.8665 CRT .6964 CRS .7811 CST .9916
 FDE .8154 FRA 1.4623 FC3 -.1021 BSP 5873 SGB 1889.6 R23 -.0077 R13 .8665 LSA 1138.8 MSA 270.9 SSA 16.9
 BDE 1.3791 BRA 2.8434 BC3 .2676 FSP -225 SG1 1831.6 SG2 464.7 THA 179.02 EL1 876.6 EL2 270.8 ALF 20.76

LAUNCH DATE NOV 20 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 244.099

RL 147.80 LAL .00 LOL 57.74 VL 24.420 GAL 15.94 AZL 86.73 HCA 92.85 SMA 110.64 ECC .42392 INC 3.2703 V1 30.145
 RP 107.52 LAP 3.27 LOP 150.60 VP 35.625 GAP -25.03 AZP 90.16 TAL 155.57 TAP 248.42 RCA 63.74 APO 157.54 V2 35.246
 RC 58.412 GL 7.84 GP -2.27 ZAL 44.08 ZAP 11.32 ETS 168.30 ZAE 134.80 ETE 194.29 ZAC 77.34 ETC 164.59 CLP 11.10

PLANETOCENTRIC CONIC

C3 96.458 VHL 9.821 DLA 12.82 RAL 9.98 RAD 6569.9 VEL 14.758 PTH 2.67 VHP 15.455 OPA -12.40 RAP 345.33 ECC 2.5875
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 48 3006.96 -27.95 96.94 265.03 85.26 7 14 55 2407.0 -28.31 88.29
 90.00 21 42 11 4831.42 18.90 208.72 254.42 68.51 23 2 43 4231.4 15.81 201.40
 100.00 7 52 46 2723.24 -29.62 76.22 265.18 85.76 8 38 9 2123.2 -29.89 67.42
 100.00 22 56 54 4590.37 20.45 190.34 253.76 67.71 24 13 24 3990.4 17.25 183.00
 110.00 9 15 57 2462.95 -34.08 56.78 265.51 87.13 9 57 0 1863.0 -34.10 47.53
 110.00 23 50 12 4423.42 24.55 175.75 251.83 65.43 25 3 56 3823.4 21.03 168.37

DIFFERENTIAL CORRECTIONS

TDE-1.1992 TRA-2.8256 TC3 -.2715 BAU .3562
 RDE -.6634 RRA .3744 RC3 -.0511 FAU .01258
 FDE .8524 FRA 1.5133 FC3 -.1129 BSP 6047
 BDE 1.3704 BRA 2.8503 BC3 .2762 FSP -243

MID-COURSE EXECUTION ACCURACY

SGT 1905.7 SGR 458.3 SG3 91.3
 RRT -.0623 RRF .0673 RTF -.8743
 SGB 1960.1 R23 -.0096 R13 .8743
 SG1 1906.0 SG2 457.3 THA 179.09

ORBIT DETERMINATION ACCURACY

ST 864.2 SR 392.8 SS 756.7
 CRT .6973 CRS .7825 CST .9914
 LSA 1184.0 MSA 267.5 SSA 17.0
 EL1 911.0 EL2 267.1 ALF 19.31

LAUNCH DATE NOV 20 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 250.828

RL 147.80 LAL .00 LOL 57.74 VL 24.681 GAL 15.29 AZL 86.67 HCA 96.10 SMA 111.83 ECC .40718 INC 3.3321 V1 30.145
 RP 107.53 LAP 3.31 LOP 153.85 VP 35.800 GAP -23.93 AZP 90.35 TAL 154.92 TAP 251.02 RCA 66.30 APO 157.37 V2 35.241
 RC 56.605 GL 8.40 GP -2.41 ZAL 43.57 ZAP 10.09 ETS 166.16 ZAE 136.03 ETE 195.32 ZAC 79.25 ETC 164.87 CLP 9.80

PLANETOCENTRIC CONIC

C3 89.625 VHL 9.467 DLA 13.58 RAL 10.32 RAD 6569.8 VEL 14.525 PTH 2.64 VHP 14.844 OPA -11.77 RAP 347.22 ECC 2.4750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 34 3017.01 -27.89 97.67 264.50 84.89 7 9 51 2417.0 -28.31 89.03
 90.00 21 50 9 4789.19 17.83 206.09 253.60 67.63 23 9 58 4189.2 14.64 198.86
 100.00 7 48 2 2731.68 -29.57 76.84 264.66 85.44 8 33 34 2131.7 -29.89 68.05
 100.00 23 4 22 4549.75 19.38 187.79 252.91 66.79 24 20 11 3949.7 16.08 180.56
 110.00 9 12 18 2468.04 -34.06 57.17 265.01 86.90 9 53 26 1868.0 -34.11 47.93
 110.00 0 0 31 4386.16 23.48 173.39 250.92 64.41 1 13 38 3786.2 19.84 166.14

DIFFERENTIAL CORRECTIONS

TDE-1.2079 TRA-2.8290 TC3 -.2772 BAU .3388
 RDE -.6248 RRA .3535 RC3 -.0557 FAU .01298
 FDE .8917 FRA 1.5662 FC3 -.1254 BSP 6317
 BDE 1.3599 BRA 2.8510 BC3 .2828 FSP -265

MID-COURSE EXECUTION ACCURACY

SGT 1978.0 SGR 450.1 SG3 98.5
 RRT -.0628 RRF .0695 RTF -.8818
 SGB 2028.6 R23 -.0111 R13 .8818
 SG1 1978.2 SG2 449.1 THA 179.14

ORBIT DETERMINATION ACCURACY

ST 902.2 SR 383.9 SS 787.3
 CRT .6976 CRS .7839 CST .9913
 LSA 1229.4 MSA 263.7 SSA 17.0
 EL1 944.6 EL2 262.7 ALF 17.97

LAUNCH DATE NOV 20 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 257.583

RL 147.80 LAL .00 LOL 57.74 VL 24.926 GAL 14.68 AZL 86.61 HCA 99.34 SMA 112.99 ECC .39114 INC 3.3948 V1 30.145
 RP 107.55 LAP 3.35 LOP 157.10 VP 35.965 GAP -22.87 AZP 90.55 TAL 154.31 TAP 253.65 RCA 68.80 APO 157.39 V2 35.235
 RC 54.864 GL 9.00 GP -2.56 ZAL 43.10 ZAP 8.87 ETS 163.31 ZAE 137.38 ETE 196.46 ZAC 81.16 ETC 165.13 CLP 8.50

PLANETOCENTRIC CONIC

C3 83.337 VHL 9.129 DLA 14.35 RAL 10.62 RAD 6569.6 VEL 14.307 PTH 2.60 VHP 14.251 OPA -11.16 RAP 349.10 ECC 2.3715
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 55 3027.60 -27.82 98.43 263.89 84.51 7 4 23 2427.6 -28.29 89.80
 90.00 21 58 9 4746.02 16.69 203.43 252.77 66.79 23 17 15 4146.0 13.40 196.29
 100.00 7 42 55 2740.56 -29.52 77.50 264.07 85.09 8 28 36 2140.6 -29.89 68.71
 100.00 23 11 50 4508.29 18.25 185.23 252.05 65.91 24 26 58 3908.3 14.84 178.10
 110.00 9 8 19 2473.38 -34.04 57.59 264.45 86.65 9 49 32 1873.4 -34.13 48.35
 110.00 0 6 52 4348.24 22.34 171.03 249.99 63.43 1 19 20 3748.2 18.59 163.90

DIFFERENTIAL CORRECTIONS

TDE-1.2174 TRA-2.8299 TC3 -.2821 BAU .3215
 RDE -.5868 RRA .3335 RC3 -.0605 FAU .01342
 FDE .9342 FRA 1.6222 FC3 -.1394 BSP 6584
 BDE 1.3514 BRA 2.8495 BC3 .2886 FSP -288

MID-COURSE EXECUTION ACCURACY

SGT 2051.9 SGR 441.0 SG3 106.3
 RRT -.0639 RRF .0724 RTF -.8889
 SGB 2098.8 R23 -.0129 R13 .8890
 SG1 2052.1 SG2 440.1 THA 179.18

ORBIT DETERMINATION ACCURACY

ST 941.6 SR 374.0 SS 819.8
 CRT .6981 CRS .7851 CST .9911
 LSA 1277.0 MSA 259.3 SSA 17.0
 EL1 979.9 EL2 257.3 ALF 16.68

LAUNCH DATE NOV 20 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 264.361

RL 147.80 LAL .00 LOL 57.74 VL 25.157 GAL 14.09 AZL 86.54 HCA 102.59 SMA 114.11 ECC .37579 INC 3.4585 V1 30.145
 RP 107.57 LAP 3.38 LOP 160.35 VP 36.119 GAP -21.84 AZP 90.75 TAL 153.72 TAP 256.31 RCA 71.23 APO 157.00 V2 35.229
 RC 53.197 GL 9.62 GP -2.73 ZAL 42.69 ZAP 7.68 ETS 159.38 ZAE 138.84 ETE 197.74 ZAC 83.07 ETC 165.38 CLP 7.19

PLANETOCENTRIC CONIC

C3 77.556 VHL 8.807 DLA 15.13 RAL 10.86 RAD 6569.5 VEL 14.103 PTH 2.57 VHP 13.675 OPA -10.55 RAP 350.97 ECC 2.2764
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 49 3038.89 -27.75 99.25 263.23 84.11 6 58 28 2438.9 -28.27 90.62
 90.00 22 6 13 4701.86 15.48 200.75 251.93 65.99 23 24 35 4101.9 12.11 193.69
 100.00 7 37 23 2750.03 -29.47 78.20 263.42 84.73 8 23 13 2150.0 -29.88 69.42
 100.00 23 19 20 4465.95 17.05 182.66 251.18 65.07 24 33 46 3866.0 13.55 175.62
 110.00 9 3 58 2479.10 -34.01 58.04 263.83 86.39 9 45 18 1879.1 -34.14 48.79
 110.00 0 13 10 4309.65 21.15 168.67 249.05 62.50 1 24 59 3709.6 17.30 161.66

DIFFERENTIAL CORRECTIONS

TDE-1.2270 TRA-2.8280 TC3 -.2860 BAU .3042
 RDE -.5493 RRA .3144 RC3 -.0656 FAU .01390
 FDE .9803 FRA 1.6813 FC3 -.1552 BSP 6849
 BDE 1.3444 BRA 2.8454 BC3 .2934 FSP -314

MID-COURSE EXECUTION ACCURACY

SGT 2126.9 SGR 431.3 SG3 114.8
 RRT -.0658 RRF .0764 RTF -.8957
 SGB 2170.2 R23 -.0149 R13 .8957
 SG1 2127.1 SG2 430.3 THA 179.20

ORBIT DETERMINATION ACCURACY

ST 982.1 SR 363.0 SS 854.0
 CRT .6985 CRS .7863 CST .9910
 LSA 1326.9 MSA 254.4 SSA 17.0
 EL1 1016.5 EL2 251.0 ALF 15.44

LAUNCH DATE NOV 20 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 271.158

RL 147.80 LAL .00 LOL 57.74 VL 25.373 GAL 13.52 AZL 86.48 MCA 105.83 SMA 115.20 ECC .36112 INC 3.5239 V1 30.145
 RP 107.59 LAP 3.39 LOP 163.60 VP 36.263 GAP -20.84 AZP 90.96 TAL 153.17 TAP 259.00 RCA 73.60 APO 156.80 V2 35.222
 RC 51.611 GL 10.28 GP -2.92 ZAL 42.34 ZAP 6.55 ETS 153.83 ZAE 140.42 ETE 199.17 ZAC 84.98 ETC 165.62 CLP 5.87

PLANETOCENTRIC CONIC

C3 72.246 VHL 8.500 CLA 15.93 RAL 11.06 RAD 6569.4 VEL 13.914 PTH -2.54 VHP 13.116 DPA -9.96 RAP 352.84 ECC 2.1890
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 12 3051.10 -27.66 100.13 262.50 83.68 6 52 3 2451.1 -28.25 91.52
 90.00 22 14 24 4656.63 14.21 198.04 251.08 65.25 23 32 0 4056.6 10.76 191.06
 100.00 7 31 23 2760.27 -29.40 78.95 262.71 84.34 8 17 23 2160.3 -29.87 70.18
 100.00 23 26 54 4422.69 15.79 180.07 250.30 64.29 24 40 37 3822.7 12.21 173.11
 110.00 8 59 15 2485.35 -33.99 58.52 263.16 86.10 9 40 40 1885.4 -34.15 49.28
 110.00 0 19 27 4270.38 19.89 166.31 248.11 61.61 1 30 38 3670.4 15.95 159.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2373 TRA-2.8232 TC3 -.2883 BAU .2868 SGT 2202.8 SGR 420.7 SG3 124.1 ST 1023.9 SR 351.0 SS 890.3
 RDE -.5124 RRA .2964 RC3 -.0709 FAU .01444 RRT -.0691 RRF .0819 RTF -.9021 CRT .6988 CRS .7872 CST .9909
 FDE 1.0307 FRA 1.7441 FC3 -.1731 BSP 7119 SGB 2242.7 R23 -.0173 R13 .9021 LSA 1379.1 MSA 248.9 SSA 17.0
 BDE 1.3392 BRA 2.8387 BC3 .2969 FSP -342 SG1 2203.0 SG2 419.7 THA 179.22 EL1 1054.6 EL2 243.8 ALF 14.25

LAUNCH DATE NOV 20 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 277.970

RL 147.80 LAL .00 LOL 57.74 VL 25.575 GAL 12.98 AZL 86.41 MCA 109.07 SMA 116.24 ECC .34712 INC 3.5913 V1 30.145
 RP 107.61 LAP 3.39 LOP 166.84 VP 36.398 GAP -19.88 AZP 91.17 TAL 152.65 TAP 261.72 RCA 75.89 APO 156.59 V2 35.215
 RC 50.116 GL 10.96 GP -3.13 ZAL 42.04 ZAP 5.51 ETS 145.76 ZAE 142.10 ETE 200.79 ZAC 86.88 ETC 165.85 CLP 4.54

PLANETOCENTRIC CONIC

C3 67.374 VHL 8.208 CLA 16.74 RAL 11.20 RAD 6569.3 VEL 13.738 PTH 2.51 VHP 12.573 DPA -9.39 RAP 354.70 ECC 2.1088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 54 1 3064.45 -27.56 101.10 261.72 83.21 6 45 6 2464.4 -28.21 92.49
 90.00 22 22 44 4610.25 12.87 195.29 250.22 64.56 23 39 34 4010.2 9.34 188.39
 100.00 7 24 53 2771.48 -29.32 79.77 261.95 83.91 8 11 4 2171.5 -29.86 71.01
 100.00 23 34 34 4378.44 14.47 177.45 249.42 63.56 24 47 33 3778.4 10.80 170.58
 110.00 8 54 6 2492.29 -33.95 59.06 262.44 85.79 9 35 39 1892.3 -34.16 49.82
 110.00 0 25 45 4230.40 18.58 163.96 247.16 60.78 1 36 16 3630.4 14.55 157.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2481 TRA-2.8154 TC3 -.2893 BAU .2695 SGT 2279.5 SGR 409.4 SG3 134.3 ST 1066.9 SR 337.8 SS 929.0
 RDE -.4759 RRA .2795 RC3 -.0765 FAU .01504 RRT -.0740 RRF .0894 RTF -.9081 CRT .6988 CRS .7877 CST .9908
 FDE 1.0858 FRA 1.8108 FC3 -.1932 BSP 7392 SGB 2316.0 R23 -.0201 R13 .9082 LSA 1433.9 MSA 242.9 SSA 17.0
 BDE 1.3358 BRA 2.8293 BC3 .2992 FSP -372 SG1 2279.7 SG2 408.3 THA 179.21 EL1 1094.0 EL2 235.7 ALF 13.10

LAUNCH DATE NOV 20 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 284.793

RL 147.80 LAL .00 LOL 57.74 VL 25.765 GAL 12.47 AZL 86.34 MCA 112.31 SMA 117.24 ECC .33378 INC 3.6615 V1 30.145
 RP 107.64 LAP 3.39 LOP 170.09 VP 36.523 GAP -18.95 AZP 91.39 TAL 152.17 TAP 264.47 RCA 78.11 APO 156.37 V2 35.207
 RC 48.721 GL 11.69 GP -3.37 ZAL 41.80 ZAP 4.64 ETS 133.89 ZAE 143.89 ETE 202.64 ZAC 88.77 ETC 166.08 CLP 3.19

PLANETOCENTRIC CONIC

C3 62.910 VHL 7.932 CLA 17.56 RAL 11.30 RAD 6569.2 VEL 13.574 PTH 2.48 VHP 12.047 DPA -8.84 RAP 356.54 ECC 2.0353
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 46 13 3079.22 -27.43 102.16 260.89 82.69 6 37 32 2479.2 -28.16 93.57
 90.00 22 31 17 4562.57 11.46 192.50 249.38 63.93 23 47 19 3962.6 7.86 185.66
 100.00 7 17 48 2783.91 -29.23 80.69 261.14 83.44 8 4 12 2183.9 -29.83 71.93
 100.00 23 42 23 4333.12 13.08 174.80 248.55 62.88 24 54 36 3733.1 9.34 168.01
 110.00 8 48 30 2500.10 -33.91 59.67 261.67 85.43 9 30 10 1900.1 -34.17 50.43
 110.00 0 32 6 4189.69 17.21 161.59 246.22 60.00 1 41 55 3589.7 13.10 154.90

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2605 TRA-2.8053 TC3 -.2890 BAU .2527 SGT 2357.4 SGR 397.5 SG3 145.5 ST 1111.7 SR 323.4 SS 970.4
 RDE -.4399 RRA .2640 RC3 -.0822 FAU .01568 RRT -.0812 RRF .0996 RTF -.9138 CRT .6985 CRS .7877 CST .9907
 FDE 1.1467 FRA 1.8820 FC3 -.2158 BSP 7650 SGB 2390.7 R23 -.0234 R13 .9139 LSA 1492.0 MSA 236.4 SSA 16.9
 BDE 1.3351 BRA 2.8177 BC3 .3005 FSP -406 SG1 2357.7 SG2 396.2 THA 179.19 EL1 1135.4 EL2 226.6 ALF 11.97

LAUNCH DATE NOV 20 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 291.625

RL 147.80 LAL .00 LOL 57.74 VL 25.943 GAL 11.98 AZL 86.27 MCA 115.54 SMA 118.20 ECC .32109 INC 3.7349 V1 30.145
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.640 GAP -18.04 AZP 91.61 TAL 151.72 TAP 267.26 RCA 80.24 APO 156.15 V2 35.198
 RC 47.437 GL 12.45 GP -3.64 ZAL 41.62 ZAP 4.07 ETS 117.17 ZAE 145.78 ETE 204.79 ZAC 90.65 ETC 166.31 CLP 1.82

PLANETOCENTRIC CONIC

C3 58.826 VHL 7.670 CLA 18.41 RAL 11.34 RAD 6569.1 VEL 13.423 PTH 2.45 VHP 11.536 DPA -8.33 RAP 358.38 ECC 1.9681
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 42 3095.74 -27.28 103.35 260.01 82.11 6 29 18 2495.7 -28.09 94.77
 90.00 22 40 6 4513.45 9.98 189.65 248.54 63.36 23 55 20 3913.4 6.32 182.88
 100.00 7 10 5 2797.81 -29.12 81.70 260.28 82.92 7 56 43 2197.8 -29.79 72.96
 100.00 23 50 24 4286.61 11.62 172.12 247.68 62.26 25 1 51 3686.6 7.82 165.39
 110.00 8 42 25 2508.97 -33.86 60.35 260.87 85.02 9 24 14 1909.0 -34.18 51.12
 110.00 0 38 30 4148.21 15.79 159.23 245.28 59.28 1 47 38 3548.2 11.59 152.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2731 TRA-2.7922 TC3 -.2870 BAU .2362 SGT 2435.4 SGR 385.0 SG3 157.8 ST 1157.4 SR 307.7 SS 1014.6
 RDE -.4042 RRA .2501 RC3 -.0882 FAU .01640 RRT -.0918 RRF .1136 RTF -.9192 CRT .6971 CRS .7867 CST .9907
 FDE 1.2137 FRA 1.9582 FC3 -.2413 BSP 7915 SGB 2465.7 R23 -.0272 R13 .9192 LSA 1552.6 MSA 229.7 SSA 16.9
 BDE 1.3357 BRA 2.8034 BC3 .3003 FSP -443 SG1 2435.7 SG2 383.4 THA 179.15 EL1 1177.8 EL2 216.8 ALF 10.87

LAUNCH DATE NOV 20 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 26.109 GAL 11.51 AZL 86.19 HCA 118.78 SMA 119.11 ECC .30903 INC 3.8124 V1 30.145
 RP 107.69 LAP 3.34 LOP 176.57 VP .36.749 GAP -17.17 AZP 91.84 TAL 151.30 TAP 270.08 RCA 82.30 APO 155.92 V2 35.189
 RC 46.274 GL 13.25 GP -3.94 ZAL 41.51 ZAP 3.97 ETS 96.97 ZAE 147.74 ETE 207.29 ZAC 92.51 ETC 166.53 CLP .44

DISTANCE 298.461

PLANETOCENTRIC CONIC
 C3 55.095 VHL 7.423 CLA 19.28 RAL 11.32 RAC 6569.0 VEL 13.284 PTH 2.43 VHP 11.042 DPA -7.85 RAP .21 ECC 1.9067
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 22 3114.38 -27.10 104.68 259.08 81.46 6 20 16 2514.4 -28.00 96.13
 90.00 22 49 19 4462.64 8.41 186.74 247.72 62.86 24 3 41 3862.6 4.71 180.02
 100.00 7 1 40 2813.52 -28.98 82.85 259.39 82.33 7 48 34 2213.5 -29.74 74.13
 100.00 0 2 38 4238.74 10.09 169.39 246.83 61.71 1 13 16 3638.7 6.23 162.72
 110.00 8 35 46 2519.13 -33.80 61.14 260.03 84.56 9 17 45 1919.1 -34.18 51.92
 110.00 0 45 1 4105.90 14.30 156.85 244.36 58.62 1 53 27 3505.9 10.04 150.33

DIFFERENTIAL CORRECTIONS
 TOE -1.2833 TRA -2.7746 TC3 -.2752 BAU .2143
 RDE -.3685 RRA .2378 RC3 -.0943 FAU .01725
 FDE 1.2868 FRA 2.0383 FC3 -.2710 BSP .8337
 BDE 1.3352 BRA 2.7848 BC3 .2909 FSP -.486

MID-COURSE EXECUTION ACCURACY
 SGT 2509.3 SGR 371.9 SC3 171.2
 RRT -.1096 RRF .1328 RTF -.9254
 SGB 2536.7 R23 -.0293 R13 .9255
 SG1 2509.6 SG2 369.6 THA 179.05

ORBIT DETERMINATION ACCURACY
 ST 1202.0 SR 290.4 SS 1061.0
 CRT .6936 CRS .7844 CST .9906
 LSA 1614.0 MSA 223.0 SSA 16.6
 EL1 1219.3 EL2 206.2 ALF 9.80

LAUNCH DATE NOV 20 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 26.264 GAL 11.06 AZL 86.11 HCA 122.01 SMA 119.99 ECC .29759 INC 3.8948 V1 30.145
 RP 107.72 LAP 3.30 LOP 179.81 VP .36.850 GAP -16.32 AZP 92.07 TAL 150.92 TAP 272.93 RCA 84.28 APO 155.69 V2 35.179
 RC 45.244 GL 14.09 GP -4.29 ZAL 41.46 ZAP 4.40 ETS 77.96 ZAE 149.74 ETE 210.23 ZAC 94.36 ETC 166.77 CLP -.97

DISTANCE 305.299

PLANETOCENTRIC CONIC
 C3 51.696 VHL 7.190 CLA 20.17 RAL 11.25 RAD 6568.9 VEL 13.155 PTH 2.40 VHP 10.563 DPA -7.42 RAP 2.03 ECC 1.8508
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 5 3135.66 -26.88 106.20 258.11 80.73 6 10 21 2535.7 -27.88 97.68
 90.00 22 59 1 4409.84 6.76 183.74 246.93 62.44 24 12 31 3809.8 3.02 177.06
 100.00 6 52 26 2831.42 -28.81 84.15 258.45 81.66 7 39 37 2231.4 -29.66 75.45
 100.00 0 11 17 4189.32 8.48 166.60 246.00 61.23 1 21 6 3589.3 4.58 159.99
 110.00 8 28 30 2530.85 -33.72 62.05 259.17 84.03 9 10 41 1930.8 -34.18 52.83
 110.00 0 51 42 4062.65 12.75 154.45 243.46 58.01 1 59 24 3462.7 8.44 148.01

DIFFERENTIAL CORRECTIONS
 TOE -1.2994 TRA -2.7533 TC3 -.2740 BAU .2018
 RDE -.3329 RRA .2276 RC3 -.1009 FAU .01810
 FDE 1.3701 FRA 2.1261 FC3 -.3031 BSP .8507
 BDE 1.3414 BRA 2.7627 BC3 .2919 FSP -.530

MID-COURSE EXECUTION ACCURACY
 SGT 2586.7 SGR 358.8 SC3 186.1
 RRT -.1292 RRF .1584 RTF -.9293
 SGB 2611.5 R23 -.0363 R13 .9294
 SG1 2587.1 SG2 355.8 THA 178.95

ORBIT DETERMINATION ACCURACY
 ST 1250.6 SR 271.6 SS 1112.3
 CRT .6892 CRS .7800 CST .9907
 LSA 1681.8 MSA 215.4 SSA 16.5
 EL1 1264.9 EL2 194.5 ALF 8.72

LAUNCH DATE NOV 20 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 26.409 GAL 10.63 AZL 86.02 HCA 125.24 SMA 120.82 ECC .28675 INC 3.9831 V1 30.145
 RP 107.75 LAP 3.25 LOP 183.05 VP .36.944 GAP -15.49 AZP 92.30 TAL 150.58 TAP 275.82 RCA 86.18 APO 155.47 V2 35.169
 RC 44.357 GL 14.99 GP -4.69 ZAL 41.47 ZAP 5.27 ETS 63.60 ZAE 151.76 ETE 213.72 ZAC 96.19 ETC 167.01 CLP -2.41

DISTANCE 312.136

PLANETOCENTRIC CONIC
 C3 48.606 VHL 6.972 CLA 21.09 RAL 11.11 RAD 6568.8 VEL 13.037 PTH 2.38 VHP 10.099 DPA -7.04 RAP 3.83 ECC 1.7999
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 40 3160.20 -26.60 107.94 257.09 79.91 5 59 20 2560.2 -27.72 99.45
 90.00 23 9 22 4354.59 5.01 180.62 246.18 62.09 24 21 57 3754.6 1.24 173.97
 100.00 6 42 14 2852.00 -28.60 85.65 257.47 80.90 7 29 46 2252.0 -29.56 76.98
 100.00 0 20 25 4138.01 6.79 163.73 245.21 60.82 1 29 23 3538.0 2.85 157.16
 110.00 8 20 33 2544.43 -33.62 63.10 258.28 83.42 9 2 57 1944.4 -34.16 53.89
 110.00 0 58 35 4018.35 11.14 152.03 242.58 57.47 2 5 34 3418.3 6.77 145.66

DIFFERENTIAL CORRECTIONS
 TOE -1.3122 TRA -2.7269 TC3 -.2621 BAU .1841
 RDE -.2968 RRA .2197 RC3 -.1075 FAU .01912
 FDE 1.4613 FRA 2.2184 FC3 -.3406 BSP .8858
 BDE 1.3454 BRA 2.7358 BC3 .2833 FSP -.582

MID-COURSE EXECUTION ACCURACY
 SGT 2658.2 SGR 345.6 SC3 202.4
 RRT -.1599 RRF .1932 RTF -.9340
 SGB 2680.6 R23 -.0419 R13 .9341
 SG1 2658.8 SG2 341.1 THA 178.79

ORBIT DETERMINATION ACCURACY
 ST 1297.1 SR 250.8 SS 1166.1
 CRT .6803 CRS .7723 CST .9907
 LSA 1749.7 MSA 208.3 SSA 16.2
 EL1 1308.5 EL2 182.2 ALF 7.64

LAUNCH DATE NOV 20 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 26.544 GAL 10.23 AZL 85.92 HCA 128.47 SMA 121.61 ECC .27651 INC 4.0787 V1 30.145
 RP 107.79 LAP 3.19 LOP 186.28 VP .37.030 GAP -14.70 AZP 92.54 TAL 150.27 TAP 278.74 RCA 87.99 APO 155.24 V2 35.158
 RC 43.625 GL 15.93 GP -5.15 ZAL 41.56 ZAP 6.45 ETS 53.87 ZAE 153.72 ETE 217.87 ZAC 98.00 ETC 167.27 CLP -3.88

DISTANCE 318.971

PLANETOCENTRIC CONIC
 C3 45.807 VHL 6.768 CLA 22.05 RAL 10.92 RAD 6568.7 VEL 12.929 PTH 2.36 VHP 9.651 DPA -6.73 RAP 5.63 ECC 1.7539
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 51 3188.86 -26.24 109.96 256.02 78.95 5 47 0 2588.9 -27.50 101.52
 90.00 23 20 37 4296.21 3.14 177.35 245.49 61.84 24 32 13 3696.2 -.65 170.72
 100.00 6 30 54 2875.90 -28.33 87.37 256.46 80.03 7 18 50 2275.9 -29.41 78.74
 100.00 0 30 11 4084.40 5.00 160.76 244.46 60.49 1 38 15 3484.4 1.03 154.22
 110.00 8 11 48 2560.26 -33.49 64.31 257.37 82.71 8 54 28 1960.3 -34.13 55.13
 110.00 1 5 47 3972.80 9.47 149.57 241.73 57.00 2 12 0 3372.8 5.05 143.26

DIFFERENTIAL CORRECTIONS
 TOE -1.3264 TRA -2.6974 TC3 -.2476 BAU .1671
 RDE -.2601 RRA .2143 RC3 -.1145 FAU .02025
 FDE 1.5636 FRA 2.3175 FC3 -.3828 BSP .9204
 BDE 1.3516 BRA 2.7059 BC3 .2728 FSP -.640

MID-COURSE EXECUTION ACCURACY
 SGT 2728.1 SGR 332.9 SC3 220.3
 RRT -.2016 RRF .2394 RTF -.9384
 SGB 2748.4 R23 -.0485 R13 .9385
 SG1 2728.9 SG2 326.0 THA 178.57

ORBIT DETERMINATION ACCURACY
 ST 1344.3 SR 228.0 SS 1224.2
 CRT .6654 CRS .7593 CST .9908
 LSA 1821.3 MSA 201.2 SSA 15.9
 EL1 1353.0 EL2 169.1 ALF 6.54

LAUNCH DATE NOV 20 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 26.669 GAL 9.85 AZL 85.82 MCA 131.70 SMA 122.36 ECC .26683 INC 4.1833 V1 30.145
 RP 107.82 LAP 3.12 LOP 189.52 VP 37.110 GAP -13.92 AZP 92.79 TAL 149.99 TAP 281.69 RCA 89.71 APO 155.01 V2 35.147
 RC 43.055 GL 16.94 GP -5.69 ZAL 41.72 ZAP 7.83 ETS 47.46 ZAE 155.58 ETE 222.82 ZAC 99.79 ETC 167.55 CLP -5.39

PLANETOCENTRIC CONIC

C3 43.282 VHL 6.579 CLA 23.04 RAL 10.66 RAD 6568.6 VEL 12.832 PTH 2.34 VHP 9.217 DPA -6.51 RAP 7.43 ECC 1.7123
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 16 3222.86 -25.77 112.34 254.89 77.85 5 32 59 2622.9 -27.19 103.96
 90.00 23 33 6 4233.69 1.13 173.86 244.86 61.70 24 43 40 3633.7 -2.66 167.23
 100.00 6 18 10 2903.97 -27.98 89.39 255.40 79.03 7 6 34 2304.0 -29.21 80.80
 100.00 0 40 49 4027.82 3.10 157.64 243.77 60.25 1 47 57 3427.8 -.89 151.11
 110.00 8 2 6 2578.81 -33.32 65.73 256.44 81.89 8 45 5 1978.8 -34.08 56.58
 110.00 1 13 22 3925.74 7.71 147.05 240.92 56.59 2 18 48 3325.7 3.26 140.79

DIFFERENTIAL CORRECTIONS

TDE-1.3331 TRA-2.6547 TC3 -.2215 BAU .1463
 RDE -.2222 RRA .2121 RC3 -.1218 FAU .02170
 FDE 1.6746 FRA 2.4193 FC3 -.4340 BSP 9776
 BOE 1.3515 BRA 2.6632 BC3 .2528 FSP -714

MID-COURSE EXECUTION ACCURACY

SGT 2783.0 SGR 321.6 SG3 239.7
 RRT -.2603 RRF .3015 RTF -.9429
 SGB 2801.5 R23 -.0548 R13 .9431
 SG1 2784.2 SG2 310.3 TMA 178.26

ORBIT DETERMINATION ACCURACY

ST 1384.2 SR 202.7 SS 1283.9
 CRT .6390 CRS .7367 CST .9907
 LSA 1888.7 MSA 194.8 SSA 15.3
 EL1 1390.3 EL2 155.2 ALF 5.41

LAUNCH DATE NOV 20 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 26.786 GAL 9.49 AZL 85.70 MCA 134.92 SMA 123.07 ECC .25775 INC 4.2989 V1 30.145
 RP 107.86 LAP 3.04 LOP 192.75 VP 37.183 GAP -13.17 AZP 93.04 TAL 149.74 TAP 284.67 RCA 91.35 APO 154.79 V2 35.135
 RC 42.657 GL 18.01 GP -6.32 ZAL 41.95 ZAP 9.38 ETS 43.27 ZAE 157.23 ETE 228.69 ZAC 101.56 ETC 167.86 CLP -6.94

PLANETOCENTRIC CONIC

C3 41.040 VHL 6.406 CLA 24.08 RAL 10.33 RAD 6568.6 VEL 12.744 PTH 2.32 VHP 8.801 DPA -6.39 RAP 9.22 ECC 1.6754
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 24 3264.20 -25.15 115.21 253.70 76.54 5 16 48 2664.2 -26.75 106.91
 90.00 23 47 23 4165.52 -1.07 170.06 244.36 61.70 24 56 49 3565.5 -4.85 163.41
 100.00 6 3 43 2937.51 -27.52 91.77 254.30 77.85 6 52 41 2337.5 -28.92 83.25
 100.00 0 52 41 3967.44 1.05 154.32 243.18 60.12 1 58 48 3367.4 -2.93 147.80
 110.00 7 51 21 2600.78 -33.10 67.41 255.51 80.92 8 34 42 2000.8 -34.00 58.29
 110.00 1 21 32 3876.94 5.87 144.47 240.18 56.26 2 26 9 3276.9 1.40 138.24

DIFFERENTIAL CORRECTIONS

TDE-1.4892 TRA-2.7567 TC3 -.3355 BAU .1975
 RDE -.1834 RRA .2126 RC3 -.1305 FAU .02001
 FDE 1.8733 FRA 2.6027 FC3 -.4222 BSP 6811
 BOE 1.5005 BRA 2.7649 BC3 .3600 FSP -649

MID-COURSE EXECUTION ACCURACY

SGT 3041.6 SGR 313.4 SG3 267.7
 RRT -.2853 RRF .3569 RTF -.9427
 SGB 3057.7 R23 -.0890 R13 .9430
 SG1 3043.0 SG2 300.3 TMA 178.30

ORBIT DETERMINATION ACCURACY

ST 1559.0 SR 175.6 SS 1400.6
 CRT .6134 CRS .7017 CST .9929
 LSA 2095.2 MSA 181.1 SSA 16.4
 EL1 1562.8 EL2 138.3 ALF 3.98

LAUNCH DATE NOV 20 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 26.895 GAL 9.14 AZL 85.57 MCA 138.15 SMA 123.74 ECC .24915 INC 4.4280 V1 30.145
 RP 107.89 LAP 2.95 LOP 195.97 VP 37.251 GAP -12.44 AZP 93.30 TAL 149.54 TAP 287.68 RCA 92.91 APO 154.57 V2 35.123
 RC 42.436 GL 19.16 GP -7.06 ZAL 42.28 ZAP 11.07 ETS 40.55 ZAE 158.57 ETE 235.49 ZAC 103.30 ETC 168.22 CLP -8.54

PLANETOCENTRIC CONIC

C3 39.021 VHL 6.247 CLA 25.17 RAL 9.91 RAD 6568.5 VEL 12.664 PTH 2.30 VHP 8.398 DPA -6.39 RAP 11.00 ECC 1.6422
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 3 3315.99 -24.28 118.75 252.36 74.97 4 57 19 2716.0 -26.11 110.56
 90.00 0 8 20 4088.25 -3.56 165.74 243.98 61.89 1 16 28 3488.3 -7.29 159.05
 100.00 5 46 50 2978.21 -26.91 94.64 253.10 76.46 6 36 28 2378.2 -28.50 86.20
 100.00 1 6 14 3901.27 -1.19 150.69 242.67 60.13 2 11 16 3301.3 -5.16 144.15
 110.00 7 39 9 2626.78 -32.80 69.38 254.53 79.79 8 22 56 2026.8 -33.86 60.30
 110.00 1 30 24 3825.46 3.92 141.77 239.48 56.02 2 34 10 3225.5 -.57 135.56

DIFFERENTIAL CORRECTIONS

TDE-1.4308 TRA-2.6367 TC3 -.2378 BAU .1435
 RDE -.1403 RRA .2187 RC3 -.1384 FAU .02319
 FDE 1.9852 FRA 2.6866 FC3 -.5145 BSP 9048
 BOE 1.4376 BRA 2.6458 BC3 .2751 FSP -803

MID-COURSE EXECUTION ACCURACY

SGT 2991.8 SGR 309.1 SG3 288.4
 RRT -.4023 RRF .4655 RTF -.9487
 SGB 3007.7 R23 -.0878 R13 .9491
 SG1 2994.4 SG2 282.8 TMA 177.60

ORBIT DETERMINATION ACCURACY

ST 1537.8 SR 144.9 SS 1448.2
 CRT .5186 CRS .6219 CST .9919
 LSA 2109.9 MSA 179.1 SSA 14.8
 EL1 1539.7 EL2 123.8 ALF 2.82

LAUNCH DATE NOV 20 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 26.996 GAL 8.81 AZL 85.43 MCA 141.37 SMA 124.37 ECC .24110 INC 4.5745 V1 30.145
 RP 107.93 LAP 2.85 LOP 199.20 VP 37.312 GAP -11.74 AZP 93.58 TAL 149.36 TAP 290.73 RCA 94.39 APO 154.36 V2 35.111
 RC 42.394 GL 20.40 GP -7.95 ZAL 42.70 ZAP 12.90 ETS 38.91 ZAE 159.48 ETE 243.14 ZAC 105.02 ETC 168.65 CLP -10.19

PLANETOCENTRIC CONIC

C3 37.258 VHL 6.104 CLA 26.33 RAL 9.41 RAD 6568.5 VEL 12.595 PTH 2.28 VHP 8.013 DPA -6.55 RAP 12.80 ECC 1.6132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 12 3365.26 -22.98 123.41 250.83 72.98 4 32 37 2785.3 -25.09 115.38
 90.00 0 30 12 3995.62 -6.51 160.53 243.87 62.38 1 36 48 3395.6 -10.16 153.75
 100.00 5 26 35 3029.41 -26.04 98.20 251.80 74.78 6 17 4 2429.4 -27.88 89.88
 100.00 1 22 30 3826.70 -3.71 146.59 242.34 60.32 2 26 17 3226.7 -7.64 140.00
 110.00 7 25 15 2658.13 -32.40 71.74 253.53 78.45 8 9 33 2058.1 -33.65 62.73
 110.00 1 40 20 3770.75 1.83 138.90 238.88 55.86 2 43 11 3170.8 -2.66 132.70

DIFFERENTIAL CORRECTIONS

TDE-1.4425 TRA-2.5799 TC3 -.2013 BAU .1243
 RDE -.0936 RRA .2295 RC3 -.1476 FAU .02506
 FDE 2.1509 FRA 2.8106 FC3 -.5823 BSP 9675
 BOE 1.4455 BRA 2.5901 BC3 .2496 FSP -902

MID-COURSE EXECUTION ACCURACY

SGT 3032.2 SGR 313.0 SG3 314.5
 RRT -.5123 RRF .5778 RTF -.9526
 SGB 3048.3 R23 -.1001 R13 .9531
 SG1 3036.5 SG2 268.4 TMA 176.95

ORBIT DETERMINATION ACCURACY

ST 1578.1 SR 113.8 SS 1525.6
 CRT .3373 CRS .4531 CST .9918
 LSA 2190.9 MSA 174.4 SSA 13.8
 EL1 1578.6 EL2 107.1 ALF 1.40

LAUNCH DATE NOV 20 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 353.021

RL 147.80 LAL .00 LOL 57.74 VL 27.089 GAL 8.51 AZL 85.26 HCA 144.59 SMA 124.96 ECC .23356 INC 4.7429 V1 30.145
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.368 GAP -11.05 AZP 93.87 TAL 149.21 TAP 293.80 RCA 95.78 APO 154.15 V2 35.099
 RC 42.534 GL 21.75 GP -9.02 ZAL 43.22 ZAP 14.90 ETS 38.07 ZAE 159.87 ETE 251.29 ZAC 106.71 ETC 169.17 CLP -11.90

PLANETOCENTRIC CONIC

C3 35.745 VHL 5.979 DLA 27.57 RAL 8.82 RAD 6568.4 VEL 12.535 PTH 2.27 VHP 7.644 DPA -6.91 RAP 14.61 ECC 1.5883
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 0 3493.70 -20.64 130.50 248.80 70.17 3 56 14 2893.7 -23.16 122.73
 90.00 1 3 37 3866.23 -10.52 153.14 244.32 63.56 2 8 4 3266.2 -13.99 146.18
 100.00 5 0 53 3097.58 -24.74 102.85 250.29 72.66 5 52 31 2497.6 -26.88 94.70
 100.00 1 43 26 3737.59 -6.70 141.66 242.28 60.80 2 45 43 3137.6 -10.54 134.98
 110.00 7 9 2 2696.54 -31.84 74.59 252.49 76.84 7 53 59 2096.5 -33.32 65.68
 110.00 1 51 46 3711.39 -.44 135.81 238.41 55.82 2 53 38 3111.4 -4.92 129.59

DIFFERENTIAL CORRECTIONS

TDE -1.4717 TRA -2.5328 TC3 -.1769 BAU .1133
 RDE -.0411 RRA .2467 RC3 -.1580 FAU .02671
 FDE 2.3501 FRA 2.9496 FC3 -.6468 BSP .9975
 BDE 1.4722 BRA 2.5448 BC3 .2372 FSP -.995

MID-COURSE EXECUTION ACCURACY

SGT 3087.2 SGR 329.2 SG3 343.8
 RRT -.6246 RRF .6929 RTF -.9558
 SGB 3104.7 R23 -.1175 R13 .9565
 SG1 3094.1 SG2 256.5 THA 176.16

ORBIT DETERMINATION ACCURACY

ST 1632.1 SR 89.4 SS 1616.1
 CRT -.0691 CRS .0554 CST .9920
 LSA 2292.3 MSA 169.9 SSA 12.9
 EL1 1632.1 EL2 89.2 ALF 179.78

LAUNCH DATE NOV 20 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 359.793

RL 147.80 LAL .00 LOL 57.74 VL 27.175 GAL 8.22 AZL 85.06 HCA 147.80 SMA 125.52 ECC .22651 INC 4.9402 V1 30.145
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.418 GAP -10.38 AZP 94.18 TAL 149.10 TAP 296.90 RCA 97.09 APO 153.95 V2 35.086
 RC 42.853 GL 23.23 GP -10.33 ZAL 43.87 ZAP 17.08 ETS 37.89 ZAE 159.63 ETE 259.42 ZAC 108.37 ETC 169.81 CLP -13.68

PLANETOCENTRIC CONIC

C3 34.489 VHL 5.873 DLA 28.91 RAL 8.10 RAD 6568.4 VEL 12.484 PTH 2.26 VHP 7.295 DPA -7.51 RAP 16.47 ECC 1.5676
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.93 1 7 40 3833.68 -16.49 153.66 245.71 65.92 2 11 34 3233.7 -19.60 146.32
 96.07 2 48 16 3508.17 -16.47 129.79 245.70 65.91 3 46 44 2908.2 -19.59 122.46
 100.00 4 23 42 3201.64 -22.45 109.73 248.28 69.73 5 17 3 2601.6 -25.01 101.87
 100.00 2 14 55 3615.45 -10.69 134.79 242.79 61.92 3 15 10 3015.5 -14.36 127.93
 110.00 6 49 35 2744.82 -31.03 78.13 251.35 74.89 7 35 20 2144.8 -32.79 69.35
 110.00 2 5 31 3645.03 -2.97 132.34 238.11 55.93 3 6 16 3045.0 -7.42 126.09

DIFFERENTIAL CORRECTIONS

TDE -1.5104 TRA -2.4851 TC3 -.1556 BAU .1062
 RDE .0200 RRA .2720 RC3 -.1698 FAU .02832
 FDE 2.5834 FRA 3.0961 FC3 -.7110 BSP .10162
 BDE 1.5105 BRA 2.5000 BC3 .2304 FSP -1091

MID-COURSE EXECUTION ACCURACY

SGT 3142.6 SGR 363.4 SG3 376.2
 RRT -.7284 RRF .7974 RTF -.9588
 SGB 3163.5 R23 -.1382 R13 .9597
 SG1 3153.8 SG2 248.1 THA 175.16

ORBIT DETERMINATION ACCURACY

ST 1691.7 SR 93.2 SS 1717.3
 CRT -.6613 CRS -.5648 CST .9923
 LSA 2406.6 MSA 166.4 SSA 11.8
 EL1 1692.8 EL2 69.9 ALF 177.91

LAUNCH DATE NOV 20 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 366.549

RL 147.80 LAL .00 LOL 57.74 VL 27.255 GAL 7.95 AZL 84.82 HCA 151.01 SMA 126.03 ECC .21993 INC 5.1759 V1 30.145
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.464 GAP -9.73 AZP 94.53 TAL 149.01 TAP 300.02 RCA 98.31 APO 153.75 V2 35.073
 RC 43.347 GL 24.88 GP -11.96 ZAL 44.66 ZAP 19.51 ETS 38.31 ZAE 158.73 ETE 266.92 ZAC 110.00 ETC 170.62 CLP -15.53

PLANETOCENTRIC CONIC

C3 33.509 VHL 5.789 DLA 30.38 RAL 7.24 RAD 6568.3 VEL 12.445 PTH 2.25 VHP 6.967 DPA -8.42 RAP 18.38 ECC 1.5515
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.52 0 22 8 3961.25 -17.48 163.58 244.76 64.76 1 28 9 3361.3 -20.74 156.27
 101.48 3 26 56 3366.06 -17.47 119.74 244.75 64.75 4 23 2 2766.1 -20.73 112.42
 78.52 0 22 8 3961.25 -17.48 163.58 244.76 64.76 1 28 9 3361.3 -20.74 156.27
 101.48 3 26 56 3366.06 -17.47 119.74 244.75 64.75 4 23 2 2766.1 -20.73 112.42
 110.00 6 25 9 2808.17 -29.82 82.66 250.02 72.46 7 11 57 2208.2 -31.93 74.09
 110.00 2 23 6 3567.14 -5.93 128.26 238.10 56.27 3 22 33 2967.1 -10.32 121.92

DIFFERENTIAL CORRECTIONS

TDE -1.5527 TRA -2.4289 TC3 -.1294 BAU .1007
 RDE .0937 RRA .3071 RC3 -.1838 FAU .03010
 FDE 2.8512 FRA 3.2405 FC3 -.7777 BSP .10436
 BDE 1.5555 BRA 2.4483 BC3 .2248 FSP -1201

MID-COURSE EXECUTION ACCURACY

SGT 3185.9 SGR 422.0 SG3 410.7
 RRT -.8128 RRF .8792 RTF -.9616
 SGB 3213.7 R23 -.1596 R13 .9629
 SG1 3204.4 SG2 244.4 THA 173.82

ORBIT DETERMINATION ACCURACY

ST 1749.5 SR 140.8 SS 1826.6
 CRT -.9374 CRS -.8891 CST .9925
 LSA 2527.8 MSA 164.4 SSA 10.6
 EL1 1754.5 EL2 48.9 ALF 175.68

LAUNCH DATE NOV 20 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 373.288

RL 147.80 LAL .00 LOL 57.74 VL 27.329 GAL 7.69 AZL 84.54 HCA 154.22 SMA 126.51 ECC .21382 INC 5.4645 V1 30.145
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.505 GAP -9.10 AZP 94.92 TAL 148.94 TAP 303.16 RCA 99.46 APO 153.57 V2 35.060
 RC 44.011 GL 26.74 GP -14.01 ZAL 45.63 ZAP 22.24 ETS 39.28 ZAE 157.13 ETE 273.29 ZAC 111.62 ETC 171.68 CLP -17.44

PLANETOCENTRIC CONIC

C3 32.848 VHL 5.731 DLA 32.02 RAL 6.20 RAD 6568.3 VEL 12.419 PTH 2.24 VHP 6.665 DPA -9.76 RAP 20.41 ECC 1.5406
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.40 23 44 54 4048.05 -18.51 170.65 243.84 63.40 24 52 22 3448.1 -21.93 163.36
 105.60 3 51 54 3269.23 -18.50 112.97 243.83 63.39 4 46 23 2669.2 -21.92 105.67
 74.40 23 44 54 4048.05 -18.51 170.65 243.84 63.40 24 52 22 3448.1 -21.93 163.36
 105.60 3 51 54 3269.23 -18.50 112.97 243.83 63.39 4 46 23 2669.2 -21.92 105.67
 110.00 5 51 37 2898.67 -27.80 88.93 248.26 69.26 6 39 56 2298.7 -30.36 80.67
 110.00 2 48 17 3466.61 -9.69 122.91 238.65 57.06 3 46 3 2866.6 -13.97 116.41

DIFFERENTIAL CORRECTIONS

TDE -1.6086 TRA -2.3705 TC3 -.1069 BAU .0996
 RDE .1866 RRA .3553 RC3 -.2001 FAU .03171
 FDE 3.1662 FRA 3.3801 FC3 -.8358 BSP .10635
 BDE 1.6194 BRA 2.3970 BC3 .2269 FSP -1314

MID-COURSE EXECUTION ACCURACY

SGT 3226.8 SGR 512.7 SG3 447.4
 RRT -.8720 RRF .9339 RTF -.9641
 SGB 3267.3 R23 -.1801 R13 .9661
 SG1 3257.8 SG2 248.6 THA 172.06

ORBIT DETERMINATION ACCURACY

ST 1813.6 SR 225.1 SS 1948.4
 CRT -.9932 CRS -.9731 CST .9928
 LSA 2666.3 MSA 163.7 SSA 9.2
 EL1 1827.3 EL2 26.0 ALF 172.97

LAUNCH DATE NOV 20 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.396 GAL 7.46 AZL 84.17 HCA 157.43 SMA 126.96 ECC .20815 INC 5.8286 V1 30.145
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.542 GAP -8.49 AZP 95.39 TAL 148.89 TAP 306.32 RCA 100.54 APO 153.39 V2 35.047
 RC 44.838 GL 28.90 GP -16.65 ZAL 46.84 ZAP 25.38 ETS 40.84 ZAE 154.77 ETE 278.24 ZAC 113.20 ETC 173.09 CLP -19.44

PLANETOCENTRIC CONIC

C3 32.586 VHL 5.708 DLA 33.88 RAL 4.90 RAD 6568.3 VEL 12.408 PTH 2.24 VHP 6.397 DPA -11.67 RAP 22.61 ECC 1.5363
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.57 23 15 9 4121.97 -19.57 176.92 242.96 61.77 24 23 51 3522.0 -23.18 169.67
 109.43 4 11 17 3191.26 -19.56 107.55 242.95 61.76 5 4 28 2591.3 -23.17 100.30
 70.57 23 15 9 4121.97 -19.57 176.92 242.96 61.77 24 23 51 3522.0 -23.18 169.67
 109.43 4 11 17 3191.26 -19.56 107.55 242.95 61.76 5 4 28 2591.3 -23.17 100.30
 110.00 4 49 7 3075.73 -22.99 100.44 244.84 63.98 5 40 23 2475.7 -26.30 92.84
 110.00 3 40 25 3285.50 -16.20 112.91 240.96 59.48 4 35 11 2685.5 -20.13 105.99

DIFFERENTIAL CORRECTIONS

TDE-1.6805 TRA-2.3059 TC3 -.0865 BAU .1026
 RDE .3091 RRA .4199 RC3 -.2192 FAU .03306
 FDE 3.5320 FRA 3.4964 FC3 -.8784 BSP 10826
 BOE 1.7087 BRA 2.3438 BC3 .2356 FSP -1428

MID-COURSE EXECUTION ACCURACY

SGT 3259.9 SGR 645.5 SG3 484.5
 RRT -.9096 RRF .9662 RTF -.9664
 SGB 3323.2 R23 -.1957 R13 .9693
 SG1 3312.7 SG2 263.9 THA 169.72

ORBIT DETERMINATION ACCURACY

ST 1882.7 SR 345.7 SS 2081.1
 CRT -.9997 CRS -.9936 CST .9931
 LSA 2822.7 MSA 164.7 SSA 7.8
 EL1 1914.2 EL2 8.0 ALF 169.60

LAUNCH DATE NOV 20 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.458 GAL 7.24 AZL 83.69 HCA 160.63 SMA 127.38 ECC .20291 INC 6.3057 V1 30.145
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.575 GAP -7.90 AZP 95.95 TAL 148.87 TAP 309.50 RCA 101.53 APO 153.22 V2 35.033
 RC 45.818 GL 31.45 GP -20.12 ZAL 48.37 ZAP 29.11 ETS 43.02 ZAE 151.50 ETE 281.73 ZAC 114.76 ETC 175.03 CLP -21.49

PLANETOCENTRIC CONIC

C3 32.871 VHL 5.733 DLA 36.06 RAL 3.24 RAD 6568.3 VEL 12.419 PTH 2.24 VHP 6.179 DPA -14.37 RAP 25.13 ECC 1.5410
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.68 22 46 8 4191.83 -20.63 183.06 242.11 59.75 23 55 59 3591.8 -24.49 175.89
 113.32 4 27 5 3125.80 -20.62 103.02 242.11 59.74 5 19 11 2525.8 -24.48 95.85
 66.68 22 46 8 4191.83 -20.63 183.06 242.11 59.75 23 55 59 3591.8 -24.49 175.89
 113.32 4 27 5 3125.80 -20.62 103.02 242.11 59.74 5 19 11 2525.8 -24.48 95.85
 66.68 22 46 8 4191.83 -20.63 183.06 242.11 59.75 23 55 59 3591.8 -24.49 175.89
 113.32 4 27 5 3125.80 -20.62 103.02 242.11 59.74 5 19 11 2525.8 -24.48 95.85

DIFFERENTIAL CORRECTIONS

TDE-1.7785 TRA-2.2347 TC3 -.0691 BAU .1101
 RDE .4792 RRA .5053 RC3 -.2407 FAU .03381
 FDE 3.9525 FRA 3.5615 FC3 -.8903 BSP 11056
 BOE 1.8419 BRA 2.2911 BC3 .2505 FSP -1535

MID-COURSE EXECUTION ACCURACY

SGT 3285.7 SGR 834.1 SG3 518.6
 RRT -.9322 RRF .9834 RTF -.9685
 SGB 3389.9 R23 -.2024 R13 .9729
 SG1 3377.1 SG2 293.7 THA 166.58

ORBIT DETERMINATION ACCURACY

ST 1961.0 SR 514.3 SS 2223.6
 CRT -.9978 CRS -.9987 CST .9935
 LSA 3004.4 MSA 167.5 SSA 6.3
 EL1 2027.1 EL2 32.6 ALF 165.33

LAUNCH DATE NOV 20 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.515 GAL 7.03 AZL 83.04 HCA 163.83 SMA 127.76 ECC .19808 INC 6.9629 V1 30.145
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.604 GAP -7.31 AZP 96.69 TAL 148.85 TAP 312.69 RCA 102.45 APO 153.06 V2 35.020
 RC 46.944 GL 34.59 GP -24.83 ZAL 50.38 ZAP 33.71 ETS 45.92 ZAE 147.02 ETE 283.91 ZAC 116.25 ETC 177.79 CLP -23.57

PLANETOCENTRIC CONIC

C3 34.012 VHL 5.832 DLA 38.66 RAL 1.02 RAD 6568.3 VEL 12.465 PTH 2.25 VHP 6.041 DPA -18.19 RAP 28.20 ECC 1.5598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.49 22 15 43 4263.59 -21.65 189.57 241.30 57.15 23 26 47 3663.6 -25.82 182.53
 117.51 4 39 48 3071.24 -21.63 99.25 241.29 57.14 5 30 59 2471.2 -25.80 92.20
 62.49 22 15 43 4263.59 -21.65 189.57 241.30 57.15 23 26 47 3663.6 -25.82 182.53
 117.51 4 39 48 3071.24 -21.63 99.25 241.29 57.14 5 30 59 2471.2 -25.80 92.20
 62.49 22 15 43 4263.59 -21.65 189.57 241.30 57.15 23 26 47 3663.6 -25.82 182.53
 117.51 4 39 48 3071.24 -21.63 99.25 241.29 57.14 5 30 59 2471.2 -25.80 92.20

DIFFERENTIAL CORRECTIONS

TDE-1.9229 TRA-2.1569 TC3 -.0579 BAU .1221
 RDE .7295 RRA .6155 RC3 -.2622 FAU .03323
 FDE 4.4181 FRA 3.5241 FC3 -.8459 BSP 11332
 BOE 2.0566 BRA 2.2430 BC3 .2685 FSP -1614

MID-COURSE EXECUTION ACCURACY

SGT 3307.2 SGR 1098.6 SG3 542.8
 RRT -.9454 RRF .9919 RTF -.9705
 SGB 3484.9 R23 -.1978 R13 .9772
 SG1 3468.1 SG2 341.5 THA 162.39

ORBIT DETERMINATION ACCURACY

ST 2057.1 SR 753.4 SS 2369.7
 CRT -.9956 CRS -.9999 CST .9940
 LSA 3222.6 MSA 172.0 SSA 4.9
 EL1 2189.7 EL2 66.7 ALF 159.95

LAUNCH DATE NOV 20 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.566 GAL 6.85 AZL 82.07 HCA 167.03 SMA 128.11 ECC .19367 INC 7.9329 V1 30.145
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.630 GAP -6.75 AZP 97.73 TAL 148.85 TAP 315.88 RCA 103.30 APO 152.92 V2 35.007
 RC 48.205 GL 38.57 GP -31.39 ZAL 53.11 ZAP 39.64 ETS 49.67 ZAE 140.74 ETE 285.13 ZAC 117.58 ETC 181.88 CLP -25.57

PLANETOCENTRIC CONIC

C3 36.705 VHL 6.058 DLA 41.88 RAL 357.87 RAD 6568.4 VEL 12.573 PTH 2.28 VHP 6.052 DPA -23.64 RAP 32.28 ECC 1.6041
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.75 21 41 36 4343.40 -22.44 196.95 240.46 53.66 22 53 59 3743.4 -27.02 190.13
 122.25 4 48 45 3029.93 -22.43 96.33 240.45 53.66 5 39 15 2429.9 -27.00 89.52
 57.75 21 41 36 4343.40 -22.44 196.95 240.46 53.66 22 53 59 3743.4 -27.02 190.13
 122.25 4 48 45 3029.93 -22.43 96.33 240.45 53.66 5 39 15 2429.9 -27.00 89.52
 57.75 21 41 36 4343.40 -22.44 196.95 240.46 53.66 22 53 59 3743.4 -27.02 190.13
 122.25 4 48 45 3029.93 -22.43 96.33 240.45 53.66 5 39 15 2429.9 -27.00 89.52

DIFFERENTIAL CORRECTIONS

TDE-2.1573 TRA-2.0703 TC3 -.0541 BAU .1381
 RDE 1.1216 RRA .7474 RC3 -.2763 FAU .03027
 FDE 4.8755 FRA 3.2894 FC3 -.7139 BSP 11795
 BOE 2.4315 BRA 2.2011 BC3 .2815 FSP -1630

MID-COURSE EXECUTION ACCURACY

SGT 3328.9 SGR 1462.4 SG3 542.8
 RRT -.9529 RRF .9957 RTF -.9725
 SGB 3636.0 R23 -.1805 R13 .9823
 SG1 3612.9 SG2 408.8 THA 156.97

ORBIT DETERMINATION ACCURACY

ST 2187.4 SR 1098.4 SS 2498.6
 CRT -.9943 CRS -1.0000 CST .9946
 LSA 3493.2 MSA 177.9 SSA 3.5
 EL1 2445.4 EL2 105.1 ALF 153.42

LAUNCH DATE NOV 20 1968

FLIGHT TIME 158.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 406.671

RL 147.80 LAL .00 LOL 57.74 VL 27.613 GAL 6.68 AZL 80.48 HCA 170.21 SMA 128.43 ECC .18965 INC 9.5204 V1 30.145
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.652 GAP -6.20 AZP 99.38 TAL 148.86 TAP 319.07 RCA 104.07 APO 152.79 V2 34.994
 RC 49.590 GL 43.87 GP -40.77 ZAL 57.04 ZAP 47.63 ETS 54.53 ZAE 131.70 ETE 286.20 ZAC 118.47 ETC 188.30 CLP -27.13

PLANETOCENTRIC CONIC

C3 42.838 VHL 6.545 DLA 45.93 RAL 352.97 RAD 6568.6 VEL 12.814 PTH 2.33 VHP 6.386 OPA -31.38 RAP 38.43 ECC 1.7050
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.19 21 0 7 4440.67 -22.53 205.80 239.31 48.85 22 14 7 3840.7 -27.64 199.42
 127.81 4 51 8 3010.68 -22.51 94.66 239.30 48.84 5 41 19 2410.7 -27.63 88.29
 52.19 21 0 7 4440.67 -22.53 205.80 239.31 48.85 22 14 7 3840.7 -27.64 199.42
 127.81 4 51 8 3010.68 -22.51 94.66 239.30 48.84 5 41 19 2410.7 -27.63 88.29
 52.19 21 0 7 4440.67 -22.53 205.80 239.31 48.85 22 14 7 3840.7 -27.64 199.42
 127.81 4 51 8 3010.68 -22.51 94.66 239.30 48.84 5 41 19 2410.7 -27.63 88.29

DIFFERENTIAL CORRECTIONS

TDE-2.6069 TRA-1.9792 TC3 -.0648 BAU .1537
 RDE 1.7809 RRA .8721 RC3 -.2605 FAU .02274
 FDE 5.1743 FRA 2.7254 FC3 -.4596 BSP 12514
 BOE 3.1572 BRA 2.1629 BC3 .2684 FSP -1499

MID-COURSE EXECUTION ACCURACY

SGT 3379.5 SGR 1936.9 SG3 493.7
 RRT -.9569 RRF .9969 RTF -.9752
 SGB 3895.3 R23 -.1492 R13 .9884
 SG1 3864.0 SG2 492.3 THA 150.74

ORBIT DETERMINATION ACCURACY

ST 2401.4 SR 1593.4 SS 2562.8
 CRT -.9941 CRS -.9999 CST .9957
 LSA 3852.2 MSA 184.3 SSA 2.2
 EL1 2878.4 EL2 144.0 ALF 146.49

LAUNCH DATE NOV 20 1968

FLIGHT TIME 160.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 413.260

RL 147.80 LAL .00 LOL 57.74 VL 27.656 GAL 6.53 AZL 77.39 HCA 173.38 SMA 128.72 ECC .18603 INC12.6111 V1 30.145
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.671 GAP -5.67 AZP 102.53 TAL 148.86 TAP 322.24 RCA 104.78 APO 152.67 V2 34.980
 RC 51.091 GL 51.18 GP -54.26 ZAL 63.01 ZAP 58.57 ETS 61.95 ZAE 118.48 ETE 289.53 ZAC 118.32 ETC 199.56 CLP -26.78

PLANETOCENTRIC CONIC

C3 59.281 VHL 7.699 DLA 50.87 RAL 344.41 RAD 6569.1 VEL 13.440 PTH 2.46 VHP 7.588 OPA -41.88 RAP 49.43 ECC 1.9756
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.80 20 4 16 4574.58 -20.41 216.72 236.80 42.33 21 20 31 3974.6 -26.22 211.14
 134.20 4 38 40 3038.36 -20.40 95.15 236.78 42.33 5 29 19 2438.4 -26.21 89.58
 45.80 20 4 16 4574.58 -20.41 216.72 236.80 42.33 21 20 31 3974.6 -26.22 211.14
 134.20 4 38 40 3038.36 -20.40 95.15 236.78 42.33 5 29 19 2438.4 -26.21 89.58
 45.80 20 4 16 4574.58 -20.41 216.72 236.80 42.33 21 20 31 3974.6 -26.22 211.14
 134.20 4 38 40 3038.36 -20.40 95.15 236.78 42.33 5 29 19 2438.4 -26.21 89.58

DIFFERENTIAL CORRECTIONS

TDE-3.7283 TRA-1.8917 TC3 -.0973 BAU .1559
 RDE 2.9155 RRA .8414 RC3 -.1710 FAU .00869
 FDE 4.9566 FRA 1.7300 FC3 -.1269 BSP 13690
 BOE 4.7329 BRA 2.0704 BC3 .1967 FSP -1137

MID-COURSE EXECUTION ACCURACY

SGT 3563.0 SGR 2400.2 SG3 364.6
 RRT -.9580 RRF .9951 RTF -.9814
 SGB 4296.1 R23 -.1031 R13 .9946
 SG1 4257.3 SG2 575.8 THA 146.47

ORBIT DETERMINATION ACCURACY

ST 2854.0 SR 2190.0 SS 2451.3
 CRT -.9950 CRS -.9996 CST .9974
 LSA 4349.1 MSA 188.4 SSA 1.2
 EL1 3593.2 EL2 174.5 ALF 142.54

LAUNCH DATE NOV 20 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 419.765

RL 147.80 LAL .00 LOL 57.74 VL 27.694 GAL 6.40 AZL 68.78 HCA 176.49 SMA 128.99 ECC .18288 INC21.2231 V1 30.145
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.687 GAP -5.17 AZP 111.19 TAL 148.83 TAP 325.32 RCA 105.40 APO 152.58 V2 34.967
 RC 52.697 GL 60.42 GP -72.35 ZAL 72.53 ZAP 72.70 ETS 88.53 ZAE 99.18 ETE 313.18 ZAC 116.86 ETC 233.43 CLP -11.26

PLANETOCENTRIC CONIC

C3 131.226 VHL 11.455 DLA 54.66 RAL 328.18 RAD 6570.4 VEL 15.892 PTH 2.81 VHP 12.197 OPA -52.55 RAP 74.16 ECC 3.1596
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.08 18 45 27 4781.73 -11.99 228.35 229.53 36.25 20 5 8 4181.7 -18.39 223.79
 138.92 3 48 5 3182.53 -11.98 99.97 229.52 36.25 4 41 7 2582.5 -18.38 95.41
 41.08 18 45 27 4781.73 -11.99 228.35 229.53 36.25 20 5 8 4181.7 -18.39 223.79
 138.92 3 48 5 3182.53 -11.98 99.97 229.52 36.25 4 41 7 2582.5 -18.38 95.41
 41.08 18 45 27 4781.73 -11.99 228.35 229.53 36.25 20 5 8 4181.7 -18.39 223.79
 138.92 3 48 5 3182.53 -11.98 99.97 229.52 36.25 4 41 7 2582.5 -18.38 95.41

DIFFERENTIAL CORRECTIONS

TDE-8.6332 TRA-1.7023 TC3 -.1994 BAU .3536
 RDE 2.3724 RRA -.1930 RC3 -.0290 FAU .01195
 FDE 3.9302 FRA .5892 FC3 .0789 BSP 14915
 BOE 8.9533 BRA 1.7132 BC3 .2015 FSP -572

MID-COURSE EXECUTION ACCURACY

SGT 4584.8 SGR 1200.1 SG3 176.1
 RRT -.8811 RRF .9137 RTF -.9972
 SGB 4739.3 R23 -.0469 R13 .9988
 SG1 4706.9 SG2 552.9 THA 166.83

ORBIT DETERMINATION ACCURACY

ST 4340.6 SR 1187.7 SS 2077.7
 CRT -.9896 CRS -.9928 CST .9997
 LSA 4953.8 MSA 166.9 SSA .9
 EL1 4497.1 EL2 164.7 ALF 164.83

LAUNCH DATE NOV 20 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 425.412

RL 147.80 LAL .00 LOL 57.74 VL 27.729 GAL 6.44 AZL 4.20 HCA 178.91 SMA 129.23 ECC .18162 INC85.7873 V1 30.145
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.700 GAP -4.88 AZP 175.80 TAL 148.29 TAP 327.19 RCA 105.76 APO 152.70 V2 34.954
 RC 54.398 GL 44.13 GP -50.88 ZAL 84.97 ZAP 85.90 ETS 177.10 ZAE 61.45 ETE 32.38 ZAC 122.35 ETC 343.62 CLP 83.49

PLANETOCENTRIC CONIC

C31557.781 VHL 39.469 DLA 31.13 RAL 319.33 RAD 6573.2 VEL 40.976 PTH 3.57 VHP 48.012 OPA -31.18 RAP 128.69 ECC26.6371
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.50 20 52 26 4565.50 .79 198.55 230.66 58.88 22 8 32 3965.5 -3.34 192.11
 103.50 0 30 28 3877.60 .81 147.74 230.65 58.88 1 35 5 3277.6 -3.32 141.31
 76.50 20 52 26 4565.50 .79 198.55 230.66 58.88 22 8 32 3965.5 -3.34 192.11
 103.50 0 30 28 3877.60 .81 147.74 230.65 58.88 1 35 5 3277.6 -3.32 141.31
 110.00 3 1 35 3406.96 -11.88 119.67 238.50 57.71 3 58 22 2807.0 -16.06 113.06
 110.00 23 20 29 4084.14 13.53 155.64 222.85 58.30 24 28 34 3484.1 9.24 149.16

DIFFERENTIAL CORRECTIONS

TDE-8.0191 TRA-2.0901 TC3 -.1354 BAU 6.4334
 RO-19.5393 RRA-3.7296 RC3 -.2777 FAU-.11981
 FDE 4.5621 FRA .8035 FC3 .0666 BSP 10057
 BDE21.1209 BRA 4.2753 BC3 .3089 FSP -196

MID-COURSE EXECUTION ACCURACY

SGT 1619.7 SGR 3639.9 SG3 74.0
 RRT .9194 RRF -.9998 RTF -.9260
 SGB 3984.0 R23 -.0454 R13 -.9989
 SG1 3940.3 SG2 588.4 THA 67.21

ORBIT DETERMINATION ACCURACY

ST 1169.4 SR 2843.6 SS 2753.2
 CRT .9876 CRS 1.0000 CST .9884
 LSA 4123.5 MSA 174.0 SSA 1.1
 EL1 3069.9 EL2 170.3 ALF 67.82

LAUNCH DATE NOV 20 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.759 GAL 6.09 AZL 106.36 MCA 183.24 SMA 129.44 ECC .17647 INC16.3553 V1 30.145
 RP 108.45 LAP .91 LOP 240.85 VP 37.711 GAP -4.05 AZP 73.67 TAL 149.14 TAP 332.37 RCA 106.60 APO 152.29 V2 34.942
 RC 56.186 GL -57.65 GP 76.94 ZAL 69.01 ZAP 77.13 ETS 292.08 ZAE 104.76 ETE 60.61 ZAC 86.65 ETC 135.27 CLP -9.75

PLANETOCENTRIC CONIC

C3 84.649 VHL 9.201 DLA -47.65 RAL 38.49 RAD 6569.7 VEL 14.353 PTH 2.61 VHP 12.954 DPA 72.07 RAP 310.02 ECC 2.3931
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.93 11 55 30 1981.92 15.35 47.26 293.98 135.68 12 28 32 1381.9 20.99 41.71
 130.07 19 58 56 5798.76 15.36 270.14 294.00 135.68 21 35 35 5198.8 21.00 264.58
 49.93 11 55 30 1981.92 15.35 47.26 293.98 135.68 12 28 32 1381.9 20.99 41.71
 130.07 19 58 56 5798.76 15.36 270.14 294.00 135.68 21 35 35 5198.8 21.00 264.58
 49.93 11 55 30 1981.92 15.35 47.26 293.98 135.68 12 28 32 1381.9 20.99 41.71
 130.07 19 58 56 5798.76 15.36 270.14 294.00 135.68 21 35 35 5198.8 21.00 264.58

DIFFERENTIAL CORRECTIONS

TDE -1.5927 TRA -4.1685 TC3 -.1347 BAU .1660
 RDE -.0766 RRA -3.2257 RC3 .0580 FAU .00055
 FDE .4564 FRA 2.0934 FC3 .0056 BSP 15676
 BDE 1.5946 BRA 5.2708 BC3 .1467 FSP -543

MID-COURSE EXECUTION ACCURACY

SGT 3986.6 SGR 2984.0 SG3 169.0
 RRT .9676 RRF -.9907 RTF -.9928
 SGB 4979.7 R23 -.0288 R13 -.9995
 SG1 4942.4 SG2 608.0 THA 36.56

ORBIT DETERMINATION ACCURACY

ST 1523.2 SR 895.8 SS 723.5
 CRT .7925 CRS .9203 CST .9680
 LSA 1844.2 MSA 495.0 SSA .8
 EL1 1697.7 EL2 490.1 ALF 27.47

LAUNCH DATE NOV 20 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.787 GAL 6.01 AZL 96.61 MCA 186.33 SMA 129.63 ECC .17435 INC 6.6138 V1 30.145
 RP 108.49 LAP .73 LOP 244.03 VP 37.720 GAP -3.58 AZP 83.43 TAL 149.08 TAP 335.42 RCA 107.03 APO 152.24 V2 34.929
 RC 58.051 GL -36.96 GP 62.54 ZAL 51.97 ZAP 69.30 ETS 317.47 ZAE 121.16 ETE 79.49 ZAC 89.79 ETC 152.40 CLP -39.95

PLANETOCENTRIC CONIC

C3 28.016 VHL 5.293 DLA -26.90 RAL 31.66 RAD 6568.1 VEL 12.223 PTH 2.20 VHP 7.287 DPA 59.63 RAP 338.84 ECC 1.4611
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 14 11 30 1231.28 10.25 344.71 262.39 116.54 14 32 1 631.3 13.73 337.77
 90.00 16 48 25 718.13 23.43 312.92 267.78 106.37 17 0 23 118.1 25.45 304.83
 100.00 14 59 27 1076.35 7.27 331.75 260.80 119.07 15 17 24 476.4 11.09 325.05
 100.00 18 43 8 5636.34 26.68 264.58 268.76 104.01 20 17 5 5036.3 28.34 256.17
 110.00 15 13 21 1032.74 1.76 325.05 257.40 124.14 15 30 34 432.7 6.23 318.81
 110.00 20 45 44 5252.71 33.01 236.96 270.27 99.43 22 13 17 4652.7 33.96 227.85

DIFFERENTIAL CORRECTIONS

TDE -.8040 TRA -2.0389 TC3 -.0112 BAU .2534
 RDE -.5043 RRA -3.1809 RC3 .6764 FAU .02533
 FDE .7414 FRA 3.6594 FC3 -.7828 BSP 15132
 BDE .9491 BRA 3.7782 BC3 .6765 FSP -1261

MID-COURSE EXECUTION ACCURACY

SGT 2623.5 SGR 3964.7 SG3 396.5
 RRT .9636 RRF -.9993 RTF -.9703
 SGB 4754.1 R23 -.0537 R13 -.9982
 SG1 4717.4 SG2 589.7 THA 56.89

ORBIT DETERMINATION ACCURACY

ST 1144.0 SR 1280.7 SS 979.4
 CRT .9113 CRS .9948 CST .9483
 LSA 1942.7 MSA 366.3 SSA 2.6
 EL1 1679.2 EL2 359.3 ALF 48.54

LAUNCH DATE NOV 20 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.810 GAL 5.94 AZL 93.29 MCA 189.49 SMA 129.80 ECC .17240 INC 3.2933 V1 30.145
 RP 108.53 LAP .54 LOP 247.21 VP 37.726 GAP -3.11 AZP 86.75 TAL 149.07 TAP 338.55 RCA 107.43 APO 152.18 V2 34.917
 RC 59.985 GL -21.19 GP 52.08 ZAL 42.77 ZAP 65.69 ETS 327.37 ZAE 131.60 ETE 83.27 ZAC 92.70 ETC 155.38 CLP -47.94

PLANETOCENTRIC CONIC

C3 19.325 VHL 4.396 DLA -11.93 RAL 26.19 RAD 6567.8 VEL 11.862 PTH 2.10 VHP 5.488 DPA 50.42 RAP 348.68 ECC 1.3180
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 41 15 1826.64 -8.66 18.24 245.70 117.07 11 11 41 1226.6 -4.96 11.52
 90.00 19 35 2 5229.87 26.51 235.36 250.84 79.65 21 2 12 4629.9 24.81 227.10
 100.00 11 56 31 1583.80 -9.74 359.82 245.13 118.40 12 22 54 983.8 -5.87 353.17
 100.00 21 2 27 4947.94 27.70 214.36 250.58 78.29 22 24 55 4347.9 25.80 206.07
 110.00 12 51 2 1413.05 -12.55 345.19 243.45 122.06 13 14 35 813.1 -8.23 338.76
 110.00 22 24 26 4691.45 30.87 194.00 249.70 74.53 23 42 37 4091.5 28.44 185.65

DIFFERENTIAL CORRECTIONS

TDE -.6090 TRA -1.5333 TC3 -.0198 BAU .2683
 RDE -.6064 RRA -2.7251 RC3 1.0384 FAU .04749
 FDE 1.3919 FRA 5.3552 FC3 -2.1275 BSP 14139
 BDE .8594 BRA 3.1268 BC3 1.0386 FSP -2067

MID-COURSE EXECUTION ACCURACY

SGT 2191.4 SGR 3825.8 SG3 656.2
 RRT .9573 RRF -.9994 RTF -.9600
 SGB 4409.0 R23 -.0594 R13 -.9977
 SG1 4374.1 SG2 553.8 THA 60.75

ORBIT DETERMINATION ACCURACY

ST 1002.8 SR 1345.9 SS 1330.6
 CRT .9593 CRS .9972 CST .9778
 LSA 2129.4 MSA 230.8 SSA 5.2
 EL1 1662.7 EL2 229.3 ALF 53.64

LAUNCH DATE NOV 20 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.831 GAL 5.87 AZL 91.62 MCA 192.65 SMA 129.95 ECC .17071 INC 1.6229 V1 30.145
 RP 108.57 LAP .36 LOP 250.39 VP 37.730 GAP -2.64 AZP 88.42 TAL 149.05 TAP 341.70 RCA 107.77 APO 152.13 V2 34.906
 RC 61.981 GL -10.99 GP 44.79 ZAL 39.01 ZAP 65.13 ETS 334.90 ZAE 138.73 ETE 86.39 ZAC 94.42 ETC 157.21 CLP -53.66

PLANETOCENTRIC CONIC

C3 16.937 VHL 4.115 DLA -2.34 RAL 22.66 RAD 6567.7 VEL 11.761 PTH 2.08 VHP 4.626 DPA 43.58 RAP 353.12 ECC 1.2787
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 12 24 2102.93 -16.71 34.53 240.87 113.20 9 47 27 1502.9 -13.43 27.39
 90.00 20 35 44 4892.00 20.36 212.56 241.85 69.89 21 57 16 4292.0 17.44 205.10
 100.00 10 32 39 1844.05 -17.68 15.05 240.42 114.50 11 3 23 1244.1 -14.23 7.96
 100.00 21 58 10 4626.11 21.36 192.60 241.45 68.58 23 15 16 4026.1 18.26 185.18
 110.00 11 38 24 1638.25 -20.28 358.07 239.07 118.13 12 5 42 1038.2 -16.36 351.14
 110.00 23 8 55 4404.68 24.02 174.56 240.21 64.91 24 22 20 3804.7 20.44 167.24

DIFFERENTIAL CORRECTIONS

TDE -.5135 TRA -1.2114 TC3 -.0903 BAU .2573
 RDE -.6809 RRA -2.4150 RC3 1.1327 FAU .06610
 FDE 2.2408 FRA 6.8833 FC3 -3.3789 BSP 13029
 BDE .8528 BRA 2.7018 BC3 1.1363 FSP -2820

MID-COURSE EXECUTION ACCURACY

SGT 1834.5 SGR 3618.1 SG3 903.9
 RRT .9473 RRF -.9992 RTF -.9489
 SGB 4056.6 R23 -.0572 R13 -.9976
 SG1 4022.1 SG2 528.5 THA 63.86

ORBIT DETERMINATION ACCURACY

ST 876.0 SR 1385.0 SS 1696.5
 CRT .9797 CRS .9974 CST .9915
 LSA 2354.0 MSA 150.0 SSA 8.8
 EL1 1632.1 EL2 149.0 ALF 57.92

LAUNCH DATE NOV 20 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 459.168

RL 147.80 LAL .00 LOL 57.74 VL 27.849 GAL 5.82 AZL 90.62 HCA 195.83 SMA 130.08 ECC .16930 INC .6151 V1 30.145
 RP 108.60 LAP .17 LOP 253.57 VP 37.733 GAP -2.18 AZP 89.41 TAL 149.01 TAP 344.84 RCA 108.05 APO 152.10 V2 34.894
 RC 64.032 GL -4.25 GP 39.52 ZAL 37.74 ZAP 66.59 ETS 341.07 ZAE 143.78 ETE 90.44 ZAC 95.12 ETC 158.81 CLP -59.00

PLANETOCENTRIC CONIC

C3 16.117 VHL 4.015 DLA 3.96 RAL 20.27 RAD 6567.6 VEL 11.726 PTH 2.07 VHP 4.115 DPA 38.28 RAP 355.13 ECC 1.2652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 16 3 2287.09 -21.26 46.13 239.11 109.16 8 54 10 1687.1 -18.45 38.58
 90.00 21 12 59 4685.13 15.02 199.74 237.51 65.71 22 31 4 4085.1 11.61 192.72
 100.00 9 39 15 2018.73 -22.25 26.01 238.72 110.49 10 12 54 1418.7 -19.26 18.49
 100.00 22 32 29 4428.72 15.97 180.42 237.05 64.39 23 46 17 3828.7 12.40 173.46
 110.00 10 51 45 1791.83 -24.90 7.59 237.53 114.21 11 21 37 1191.8 -21.42 .17
 110.00 23 36 28 4228.39 18.52 163.84 235.66 60.74 24 46 56 3628.4 14.48 157.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.4198 TRA -.9232 TC3 -.1891 BAU .2471 SGT 1458.2 SGR 3417.0 SCS 1128.2 ST 718.3 SR 1392.0 SS 2026.1
 ROE -.7197 RRA-2.1878 RC3 1.1311 FAU .08240 RRT .9255 RRF -.9989 RTF -.9269 CRT .9875 CRS .9973 CST .9963
 FOE 3.1378 FRA 8.2059 FC3-4.4263 BSP 12030 SGB 3715.2 R23 -.0499 R13 -.9977 LSA 2558.4 MSA 112.6 SSA 12.5
 BOE .8332 BRA 2.3746 BC3 1.1468 FSP -3532 SGI 3679.6 SG2 513.0 TMA 68.00 EL1 1563.1 EL2 100.8 ALF 62.88

LAUNCH DATE NOV 20 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 465.607

RL 147.80 LAL .00 LOL 57.74 VL 27.864 GAL 5.78 AZL 89.94 HCA 199.00 SMA 130.19 ECC .16817 INC .0593 V1 30.145
 RP 108.64 LAP -.02 LOP 256.74 VP 37.734 GAP -1.72 AZP 90.06 TAL 148.97 TAP 347.97 RCA 108.29 APO 152.08 V2 34.883
 RC 66.131 GL .44 GP 35.53 ZAL 37.47 ZAP 69.40 ETS 346.19 ZAE 147.36 ETE 95.85 ZAC 95.01 ETC 160.31 CLP -64.38

PLANETOCENTRIC CONIC

C3 15.834 VHL 3.979 DLA 8.33 RAL 18.56 RAD 6567.6 VEL 11.714 PTH 2.06 VHP 3.776 DPA 33.97 RAP 355.79 ECC 1.2606
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 35 48 2421.26 -23.99 55.01 238.46 105.52 8 16 9 1821.3 -21.63 47.14
 90.00 21 39 37 4542.90 10.87 191.35 235.20 63.69 22 55 20 3942.9 7.25 184.55
 100.00 9 1 10 2145.90 -25.03 34.43 238.13 106.90 9 36 56 1545.9 -22.48 26.56
 100.00 22 56 55 4293.50 11.84 172.51 234.70 62.35 24 8 29 3693.5 8.05 165.78
 110.00 10 18 37 1903.55 -27.81 14.97 237.07 110.72 10 50 21 1303.5 -24.74 7.15
 110.00 23 55 58 4108.62 14.40 157.00 233.21 58.66 25 4 27 3508.6 10.14 150.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.3095 TRA -.6376 TC3 -.3168 BAU .2396 SGT 1059.7 SGR 3236.4 SCS 1330.0 ST 525.5 SR 1380.0 SS 2319.8
 ROE -.7383 RRA-2.0148 RC3 1.0867 FAU .09581 RRT .8677 RRF -.9986 RTF -.8696 CRT .9906 CRS .9969 CST .9980
 FOE 4.0398 FRA 9.3651 FC3-5.2383 BSP 10963 SGB 3405.5 R23 -.0373 R13 -.9979 LSA 2748.0 MSA 101.2 SSA 14.8
 BOE .8005 BRA 2.1133 BC3 1.1319 FSP -4153 SGI 3367.7 SG2 506.3 TMA 73.76 EL1 1475.1 EL2 67.2 ALF 69.29

LAUNCH DATE NOV 20 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 472.026

RL 147.80 LAL .00 LOL 57.74 VL 27.877 GAL 5.76 AZL 89.45 HCA 202.17 SMA 130.28 ECC .16730 INC .5519 V1 30.145
 RP 108.67 LAP -.21 LOP 259.91 VP 37.734 GAP -1.28 AZP 90.51 TAL 148.90 TAP 351.07 RCA 108.48 APO 152.07 V2 34.873
 RC 68.274 GL 3.86 GP 32.37 ZAL 37.58 ZAP 73.13 ETS 350.48 ZAE 149.80 ETE 102.71 ZAC 94.30 ETC 161.71 CLP -69.91

PLANETOCENTRIC CONIC

C3 15.780 VHL 3.972 DLA 11.52 RAL 17.29 RAD 6567.6 VEL 11.712 PTH 2.06 VHP 3.536 DPA 30.26 RAP 355.60 ECC 1.2597
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 5 0 2524.92 -25.69 62.13 238.29 102.34 7 47 5 1924.9 -23.73 54.01
 90.00 22 0 18 4437.70 7.63 185.32 233.91 62.65 23 14 16 3837.7 3.91 178.62
 100.00 8 32 10 2243.81 -26.80 41.17 238.01 103.77 9 9 34 1643.8 -24.64 33.03
 100.00 23 15 49 4194.04 8.64 166.87 233.37 61.27 24 25 43 3594.0 4.74 160.25
 110.00 9 53 35 1989.05 -29.73 20.88 237.07 107.70 10 26 44 1389.0 -27.02 12.74
 110.00 0 14 50 4021.57 11.26 152.20 231.80 57.51 1 21 51 3421.6 6.90 145.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1742 TRA -.3411 TC3 -.4587 BAU .2389 SGT 669.4 SGR 3059.3 SCS 1504.2 ST 293.2 SR 1344.9 SS 2564.4
 ROE -.7364 RRA-1.8672 RC3 1.0355 FAU .10755 RRT .6578 RRF -.9981 RTF -.6608 CRT .9912 CRS .9964 CST .9979
 FOE 4.8828 FRA10.3369 FC3-5.9005 BSP 10031 SGB 3131.7 R23 -.0181 R13 -.9979 LSA 2908.6 MSA 102.5 SSA 15.4
 BOE .7567 BRA 1.8981 BC3 1.1326 FSP -4729 SGI 3091.7 SG2 498.9 TMA 81.59 EL1 1375.9 EL2 37.8 ALF 77.80

LAUNCH DATE NOV 20 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 478.423

RL 147.80 LAL .00 LOL 57.74 VL 27.887 GAL 5.75 AZL 89.08 HCA 205.35 SMA 130.35 ECC .16670 INC .9243 V1 30.145
 RP 108.70 LAP -.40 LOP 263.08 VP 37.732 GAP -.84 AZP 90.84 TAL 148.80 TAP 354.15 RCA 108.62 APO 152.08 V2 34.862
 RC 70.456 GL 6.46 GP 29.75 ZAL 37.82 ZAP 77.53 ETS 354.10 ZAE 151.21 ETE 110.77 ZAC 93.12 ETC 163.03 CLP -75.60

PLANETOCENTRIC CONIC

C3 15.846 VHL 3.981 DLA 13.94 RAL 16.33 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 3.364 DPA 26.93 RAP 354.85 ECC 1.2608
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 40 23 2608.62 -26.77 68.02 238.36 99.58 7 23 52 2008.6 -25.18 59.71
 90.00 22 17 16 4355.90 5.05 180.70 233.20 62.10 23 29 52 3755.9 1.28 174.05
 100.00 8 9 6 2322.51 -27.95 46.73 238.12 101.06 8 47 48 1722.5 -26.14 38.40
 100.00 23 31 15 4117.24 6.10 162.58 232.63 60.68 24 39 52 3517.2 2.15 156.02
 110.00 9 33 53 2057.23 -31.04 25.76 237.29 105.09 10 8 10 1457.2 -28.66 17.37
 110.00 0 26 53 3955.28 8.81 148.63 230.97 56.84 1 32 48 3355.3 4.39 142.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.0159 TRA -.0341 TC3 -.6150 BAU .2451 SGT 492.8 SGR 2880.3 SCS 1648.0 ST 31.2 SR 1291.5 SS 2763.7
 ROE -.7193 RRA-1.7344 RC3 .9797 FAU .11730 RRT -.1607 RRF -.9974 RTF .1573 CRT .8720 CRS .9957 CST .8738
 FOE 5.6406 FRA11.1182 FC3-6.4084 BSP 9224 SGB 2922.1 R23 .0078 R13 -.9974 LSA 3048.7 MSA 109.0 SSA 15.1
 BOE .7195 BRA 1.7347 BC3 1.1567 FSP -5235 SGI 2881.4 SG2 486.2 TMA 91.62 EL1 1291.8 EL2 15.3 ALF 88.79

LAUNCH DATE NOV 20 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.895 GAL 5.76 AZL 88.78 MCA 208.52 SMA 130.41 ECC .16635 INC 1.2183 V1 30.145
 RP 108.73 LAP -.58 LOP 266.25 VP 37.729 GAP -.40 AZP 91.07 TAL 148.68 TAP 357.20 RCA 108.71 APO 152.10 V2 34.853
 RC 72.672 GL 8.49 GP 27.48 ZAL 38.08 ZAP 82.38 ETS 357.19 ZAE 151.65 ETE 119.55 ZAC 91.61 ETC 164.22 CLP -81.40

PLANETOCENTRIC CONIC

C3 15.989 VHL 3.999 DLA 15.85 RAL 15.60 RAD 6567.6 VEL 11.721 PTH 2.07 VHP 3.244 DPA 23.85 RAP 353.73 ECC 1.2631
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 20 5 2678.54 -27.47 73.02 238.56 97.17 7 4 44 2078.5 -26.19 64.58
 90.00 22 31 44 4290.05 2.94 177.01 232.86 61.82 23 43 14 3690.0 -8.5 170.38
 100.00 7 50 12 2387.93 -28.71 51.44 238.36 98.69 8 30 0 1787.9 -27.21 42.96
 100.00 23 44 18 4055.90 4.04 159.18 232.25 60.36 24 51 54 3455.9 .07 152.65
 110.00 9 17 56 2113.43 -31.97 29.88 237.65 102.81 9 53 9 1513.4 -29.87 21.29
 110.00 0 37 0 3903.16 6.86 145.86 230.51 56.43 1 42 3 3303.2 2.40 139.61

DIFFERENTIAL CORRECTIONS

TOE .1625 TRA .2810 TC3 -.7817 BAU .2579
 RDE -.6890 RRA-1.6082 RC3 .9187 FAU .12464
 FDE 6.2828 FRA11.6882 FC3-6.7488 BSP 8628
 BDE .7079 BRA 1.6326 BC3 1.2063 FSP -5650

MID-COURSE EXECUTION ACCURACY

SGT 787.5 SGR 2693.0 SG3 1756.4
 RRT -.7977 RRF -.9965 RTF .7968
 SGB 2805.8 R23 .0368 R13 -.9958
 SG1 2767.5 SG2 462.2 THA 103.51

ORBIT DETERMINATION ACCURACY

ST 265.2 SR 1221.3 SS 2917.6
 CRT -.9896 CRS .9946 CST -.9980
 LSA 3171.8 MSA 117.1 SSA 14.7
 EL1 1249.2 EL2 37.3 ALF 102.14

LAUNCH DATE NOV 20 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.901 GAL 5.77 AZL 88.54 MCA 211.69 SMA 130.45 ECC .16626 INC 1.4579 V1 30.145
 RP 108.76 LAP -.77 LOP 269.42 VP 37.725 GAP .03 AZP 91.24 TAL 148.54 TAP .23 RCA 108.76 APO 152.14 V2 34.844
 RC 74.919 GL 10.11 GP 25.44 ZAL 38.31 ZAP 87.52 ETS 359.82 ZAE 151.19 ETE 128.35 ZAC 89.88 ETC 165.27 CLP -87.26

PLANETOCENTRIC CONIC

C3 16.191 VHL 4.024 DLA 17.38 RAL 15.05 RAD 6567.6 VEL 11.729 PTH 2.07 VHP 3.167 DPA 20.96 RAP 352.39 ECC 1.2665
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 3 0 2738.56 -27.90 77.35 238.86 95.04 6 48 38 2138.6 -26.91 68.83
 90.00 22 44 25 4235.74 1.19 173.97 232.78 61.71 23 55 1 3635.7 -2.60 167.35
 100.00 7 34 24 2443.77 -29.22 55.52 238.71 96.60 8 15 8 1843.8 -28.00 46.93
 100.00 23 55 41 4005.75 2.35 156.42 232.14 60.19 25 2 27 3405.8 -1.63 149.90
 110.00 9 4 47 2161.00 -32.63 33.43 238.10 100.81 9 40 48 1561.0 -30.79 24.69
 110.00 0 45 44 3861.29 5.28 143.65 230.32 56.18 1 50 5 3261.3 .80 137.42

DIFFERENTIAL CORRECTIONS

TOE .3564 TRA .5994 TC3 -.9543 BAU .2764
 RDE -.6481 RRA-1.4865 RC3 .8487 FAU .12862
 FDE 6.7919 FRA12.0450 FC3-6.8771 BSP 8307
 BDE .7396 BRA 1.6028 BC3 1.2771 FSP -5923

MID-COURSE EXECUTION ACCURACY

SGT 1283.5 SGR 2497.6 SG3 1827.0
 RRT -.9286 RRF -.9953 RTF .9297
 SGB 2808.0 R23 .0608 R13 -.9936
 SG1 2775.1 SG2 428.6 THA 116.18

ORBIT DETERMINATION ACCURACY

ST 574.5 SR 1137.9 SS 3030.3
 CRT -.9902 CRS .9933 CST -.9994
 LSA 3285.1 MSA 125.2 SSA 14.4
 EL1 1272.7 EL2 71.7 ALF 116.66

LAUNCH DATE NOV 20 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.905 GAL 5.81 AZL 88.34 MCA 214.86 SMA 130.47 ECC .16642 INC 1.6579 V1 30.145
 RP 108.78 LAP -.95 LOP 272.59 VP 37.720 GAP .46 AZP 91.36 TAL 148.36 TAP 3.22 RCA 108.76 APO 152.19 V2 34.835
 RC 77.134 GL 11.42 GP 23.56 ZAL 38.50 ZAP 92.83 ETS 2.06 ZAE 149.96 ETE 136.56 ZAC 88.04 ETC 166.15 CLP -93.09

PLANETOCENTRIC CONIC

C3 16.444 VHL 4.055 DLA 18.65 RAL 14.64 RAD 6567.7 VEL 11.740 PTH 2.07 VHP 3.128 DPA 18.21 RAP 350.95 ECC 1.2706
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 23 2791.16 -28.16 81.18 239.25 93.13 6 34 54 2191.2 -27.43 72.59
 90.00 22 55 45 4190.22 -.28 171.44 232.89 61.68 24 5 35 3590.2 -4.06 164.80
 100.00 7 21 1 2492.46 -29.55 59.10 239.14 94.74 8 2 33 1892.5 -28.58 50.43
 100.00 0 9 44 3964.15 .94 154.14 232.22 60.12 1 15 49 3364.1 -3.04 147.62
 110.00 8 53 48 2202.15 -33.11 36.55 238.64 99.02 9 30 30 1602.2 -31.51 27.69
 110.00 0 53 26 3827.22 3.99 141.86 230.32 56.02 1 57 14 3227.2 -.50 135.65

DIFFERENTIAL CORRECTIONS

TOE .5602 TRA .9148 TC3-1.1238 BAU .3015
 RDE -.5942 RRA-1.3639 RC3 .7858 FAU .13147
 FDE 7.1133 FRA12.1470 FC3-6.9215 BSP 8475
 BDE .8167 BRA 1.6423 BC3 1.3713 FSP -6149

MID-COURSE EXECUTION ACCURACY

SGT 1821.6 SGR 2290.7 SG3 1854.3
 RRT -.9634 RRF -.9937 RTF .9664
 SGB 2926.7 R23 .0699 R13 -.9918
 SG1 2901.2 SG2 385.8 THA 128.25

ORBIT DETERMINATION ACCURACY

ST 891.5 SR 1038.1 SS 3088.0
 CRT -.9885 CRS .9912 CST -.9997
 LSA 3374.9 MSA 133.2 SSA 13.9
 EL1 1364.5 EL2 102.5 ALF 130.61

LAUNCH DATE NOV 20 1968

FLIGHT TIME 188.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

RL 147.80 LAL .00 LOL 57.74 VL 27.907 GAL 5.86 AZL 88.17 MCA 218.03 SMA 130.49 ECC .16682 INC 1.8282 V1 30.145
 RP 108.81 LAP -.113 LOP 275.75 VP 37.714 GAP .88 AZP 91.44 TAL 148.15 TAP 6.18 RCA 108.72 APO 152.26 V2 34.827
 RC 79.493 GL 12.50 GP 21.81 ZAL 38.62 ZAP 98.17 ETS 3.95 ZAE 148.14 ETE 143.77 ZAC 86.19 ETC 166.85 CLP -98.80

PLANETOCENTRIC CONIC

C3 16.747 VHL 4.092 DLA 19.70 RAL 14.35 RAD 6567.7 VEL 11.753 PTH 2.07 VHP 3.122 DPA 15.62 RAP 349.51 ECC 1.2756
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 47 2838.07 -28.28 84.61 239.71 91.42 6 23 5 2238.1 -27.79 75.97
 90.00 23 6 3 4151.67 -1.52 169.29 233.17 61.72 24 15 15 3551.7 -5.29 162.63
 100.00 7 9 34 2535.65 -29.75 62.29 239.65 93.07 7 51 50 1935.7 -29.00 53.57
 100.00 0 18 53 3929.32 -.24 152.23 232.45 60.11 1 24 23 3329.3 -4.22 145.70
 110.00 8 44 35 2238.41 -33.46 38.32 239.25 97.42 9 21 53 1638.4 -32.08 30.36
 110.00 1 0 22 3799.33 2.92 140.40 230.48 55.93 2 3 41 3199.3 -1.57 134.19

DIFFERENTIAL CORRECTIONS

TOE .7698 TRA 1.2243 TC3-1.2855 BAU .3291
 RDE -.5358 RRA-1.2474 RC3 .7127 FAU .13013
 FDE 7.2960 FRA12.0640 FC3-6.7274 BSP 8955
 BDE .9379 BRA 1.7479 BC3 1.4699 FSP -6184

MID-COURSE EXECUTION ACCURACY

SGT 2362.9 SGR 2084.3 SG3 1846.1
 RRT -.9746 RRF -.9915 RTF .9798
 SGB 3150.8 R23 .0662 R13 -.9911
 SG1 3131.1 SG2 352.6 THA 138.68

ORBIT DETERMINATION ACCURACY

ST 1208.7 SR 934.2 SS 3114.9
 CRT -.9857 CRS .9883 CST -.9998
 LSA 3466.4 MSA 140.5 SSA 13.6
 EL1 1522.5 EL2 125.0 ALF 142.40

LAUNCH DATE NOV 20 1968

FLIGHT TIME 190.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 510.072

RL 147.80 LAL .00 LOL 57.74 VL 27.907 GAL 5.92 AZL 88.02 MCA 221.19 SMA 130.49 ECC .16747 INC 1.9761 V1 30.145
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.707 GAP 1.30 AZP 91.49 TAL 147.92 TAP 9.11 RCA 108.64 APO 152.34 V2 34.820
 RC 81.813 GL 13.38 GP 20.16 ZAL 38.69 ZAP 103.44 ETS 5.54 ZAE 145.92 ETE 149.83 ZAC 84.43 ETC 167.37 CLP-104.33

PLANETOCENTRIC CONIC

C3 17.100 VHL 4.135 CLA 20.59 RAL 14.17 RAD 6567.7 VEL 11.768 PTH 2.08 VHP 3.147 DPA 13.20 RAP 348.16 ECC 1.2814
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 52 2880.46 -28.32 87.71 240.25 89.87 6 12 52 2280.5 -28.04 79.05
 90.00 23 15 31 4118.88 -2.58 167.45 233.57 61.79 24 24 10 3518.9 -6.33 160.78
 100.00 6 59 45 2574.49 -29.86 65.17 240.23 91.56 7 42 39 1974.5 -29.32 56.41
 100.00 0 27 15 3900.08 -1.23 150.63 232.82 60.13 1 52 15 3300.1 -5.20 144.08
 110.00 8 36 49 2270.82 -33.72 41.81 239.93 95.96 9 14 39 1670.8 -32.53 32.78
 110.00 1 6 41 3776.51 2.05 139.21 230.77 55.87 2 9 37 3176.5 -2.44 133.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9781 TRA 1.5214 TC3-1.4350 BAU .3595 SGT 2883.7 SGR 1879.0 SG3 1802.4 ST 1514.7 SR 825.1 SS 3100.1
 RDE -.4714 RRA-1.1347 RC3 .6435 FAU .12694 RRT -.9779 RRF -.9884 RTF .9861 CRT -.9811 CRS .9838 CST -.9999
 FDE 7.3104 FRA11.7861 FC3-6.4270 BSP 9786 SGB 3441.9 R23 .0540 R13 -.9913 LSA 3544.5 MSA 147.4 SSA 13.3
 BDE 1.0858 BRA 1.8980 BC3 1.5726 FSP -6132 SG1 3426.0 SG2 330.7 THA 147.15 EL1 1719.1 EL2 140.6 ALF 151.67

LAUNCH DATE NOV 20 1968

FLIGHT TIME 192.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 516.333

RL 147.80 LAL .00 LOL 57.74 VL 27.905 GAL 6.00 AZL 87.89 MCA 224.36 SMA 130.48 ECC .16837 INC 2.1063 V1 30.145
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.700 GAP 1.72 AZP 91.51 TAL 147.65 TAP 12.01 RCA 108.51 APO 152.45 V2 34.813
 RC 84.153 GL 14.11 GP 18.61 ZAL 38.70 ZAP 108.55 ETS 6.86 ZAE 143.48 ETE 154.80 ZAC 82.83 ETC 167.73 CLP-109.62

PLANETOCENTRIC CONIC

C3 17.505 VHL 4.184 CLA 21.34 RAL 14.08 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 3.199 DPA 10.97 RAP 346.95 ECC 1.2881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 15 22 2919.18 -28.28 90.54 240.87 88.45 6 4 1 2319.2 -28.19 81.87
 90.00 23 24 18 4090.98 -3.47 165.89 234.10 61.88 24 32 29 3491.0 -7.21 159.21
 100.00 6 51 19 2609.80 -29.89 67.80 240.89 90.18 7 34 49 2009.8 -29.55 59.01
 100.00 0 34 58 3875.60 -2.06 149.28 233.31 60.17 1 39 33 3275.6 -6.02 142.73
 110.00 8 30 17 2300.18 -33.91 44.09 240.69 94.63 9 8 37 1700.2 -32.89 34.99
 110.00 1 12 29 3757.98 1.35 138.24 231.18 55.84 2 15 7 3158.0 -3.15 132.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1819 TRA 1.8045 TC3-1.5675 BAU .3909 SGT 3373.3 SGR 1682.2 SG3 1731.5 ST 1804.0 SR 716.9 SS 3054.9
 RDE -.4051 RRA-1.0290 RC3 .5768 FAU .12175 RRT -.9772 RRF -.9842 RTF .9894 CRT -.9740 CRS .9770 CST -.9999
 FDE 7.1912 FRA11.3652 FC3-6.0216 BSP 10825 SGB 3769.4 R23 .0401 R13 -.9919 LSA 3616.2 MSA 153.9 SSA 13.0
 BDE 1.2493 BRA 2.0773 BC3 1.6703 FSP -5983 SG1 3755.8 SG2 321.0 THA 153.81 EL1 1935.3 EL2 151.5 ALF 158.71

LAUNCH DATE NOV 20 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 522.570

RL 147.80 LAL .00 LOL 57.74 VL 27.902 GAL 6.09 AZL 87.78 MCA 227.52 SMA 130.46 ECC .16950 INC 2.2225 V1 30.145
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.692 GAP 2.14 AZP 91.50 TAL 147.35 TAP 14.87 RCA 108.34 APO 152.57 V2 34.807
 RC 86.508 GL 14.71 GP 17.17 ZAL 38.65 ZAP 113.45 ETS 7.97 ZAE 140.96 ETE 158.81 ZAC 81.44 ETC 167.93 CLP-114.62

PLANETOCENTRIC CONIC

C3 17.965 VHL 4.238 CLA 21.99 RAL 14.07 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 3.277 DPA 8.95 RAP 345.92 ECC 1.2957
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 7 8 2954.85 -28.18 93.14 241.56 87.14 5 56 23 2354.9 -28.28 84.48
 90.00 23 32 29 4067.37 -4.23 164.57 234.72 61.97 24 40 16 3467.4 -7.95 157.86
 100.00 6 44 6 2642.19 -29.87 70.21 241.62 88.91 7 28 9 2042.2 -29.71 61.41
 100.00 0 42 8 3855.26 -2.75 148.16 233.91 60.22 1 46 23 3255.3 -6.69 141.60
 110.00 8 24 50 2327.05 -34.03 46.17 241.52 93.40 9 3 37 1727.0 -33.19 37.04
 110.00 1 17 53 3743.17 .78 137.47 231.70 55.82 2 20 16 3143.2 -3.71 131.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.3783 TRA 2.0729 TC3-1.6804 BAU .4220 SGT 3825.4 SGR 1499.0 SG3 1641.5 ST 2072.5 SR 613.8 SS 2987.0
 RDE -.3393 RRA -.9322 RC3 .5139 FAU .11493 RRT -.9735 RRF -.9783 RTF .9912 CRT -.9628 CRS .9664 CST -.9999
 FDE 6.9696 FRA10.8490 FC3-5.5387 BSP 11960 SGB 4108.6 R23 .0286 R13 -.9925 LSA 3683.5 MSA 160.1 SSA 12.8
 BDE 1.4194 BRA 2.2729 BC3 1.7573 FSP -5749 SG1 4096.1 SG2 320.3 THA 158.99 EL1 2155.6 EL2 159.5 ALF 163.99

LAUNCH DATE NOV 20 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 528.782

RL 147.80 LAL .00 LOL 57.74 VL 27.898 GAL 6.20 AZL 87.67 MCA 230.69 SMA 130.42 ECC .17089 INC 2.3275 V1 30.145
 RP 108.89 LAP -1.80 LOP 288.40 VP 37.684 GAP 2.56 AZP 91.48 TAL 147.01 TAP 17.70 RCA 108.14 APO 152.71 V2 34.802
 RC 88.877 GL 15.19 GP 15.84 ZAL 38.55 ZAP 118.09 ETS 8.88 ZAE 138.46 ETE 162.02 ZAC 80.29 ETC 168.01 CLP-119.31

PLANETOCENTRIC CONIC

C3 18.484 VHL 4.299 CLA 22.55 RAL 14.14 RAD 6567.7 VEL 11.826 PTH 2.09 VHP 3.377 DPA 7.14 RAP 345.10 ECC 1.3042
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 0 3 2987.93 -28.05 95.55 242.33 85.94 5 49 51 2387.9 -28.32 86.90
 90.00 23 40 8 4047.61 -4.86 163.46 235.45 62.07 24 47 36 3447.6 -8.56 156.74
 100.00 6 37 59 2672.14 -29.82 72.43 242.44 87.74 7 22 31 2072.1 -29.81 63.63
 100.00 0 48 49 3838.64 -3.31 147.25 234.60 60.27 1 52 47 3238.6 -7.24 140.67
 110.00 8 20 21 2351.87 -34.12 48.11 242.44 92.26 8 59 33 1751.9 -33.43 38.93
 110.00 1 22 56 3731.66 .34 136.87 232.32 55.82 2 25 8 3131.7 -4.15 130.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5656 TRA 2.3268 TC3-1.7724 BAU .4523 SGT 4236.6 SGR 1332.2 SG3 1539.6 ST 2317.4 SR 518.6 SS 2902.2
 RDE -.2758 RRA -.8447 RC3 .4564 FAU .10712 RRT -.9669 RRF -.9703 RTF .9923 CRT -.9451 CRS .9495 CST -.9999
 FDE 6.6742 FRA10.2743 FC3-5.0171 BSP 13127 SGB 4441.1 R23 .0201 R13 -.9930 LSA 3746.2 MSA 165.8 SSA 12.7
 BDE 1.5897 BRA 2.4754 BC3 1.8302 FSP -5461 SG1 4429.2 SG2 325.0 THA 162.99 EL1 2368.9 EL2 165.8 ALF 168.00

LAUNCH DATE NOV 20 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 534.970

RL 147.80 LAL .00 LOL 57.74 VL 27.892 GAL 6.32 AZL 87.58 HCA 233.85 SMA 130.38 ECC .17252 INC 2.4234 V1 30.145
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.675 GAP 2.98 AZP 91.43 TAL 146.65 TAP 20.50 RCA 107.89 APO 152.88 V2 34.797
 RC 91.256 GL 15.57 GP 14.62 ZAL 38.39 ZAP 122.45 ETS 9.64 ZAE 136.07 ETE 164.58 ZAC 79.41 ETC 168.00 CLP-123.68

PLANETOCENTRIC CONIC

C3 19.066 VHL 4.366 DLA 23.02 RAL 14.28 RAD 6567.8 VEL 11.851 PTH 2.10 VHP 3.498 DPA 5.56 RAP 344.51 ECC 1.3138
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 59 3018.75 -27.88 97.79 243.18 84.83 5 44 18 2418.8 -28.30 89.15
 90.00 23 47 19 4031.38 -5.38 162.55 236.27 62.16 24 54 30 3431.4 -9.06 155.81
 100.00 6 32 51 2699.98 -29.72 74.50 243.33 86.66 7 17 51 2100.0 -29.87 65.69
 100.00 0 55 4 3825.39 -3.76 146.52 235.38 60.32 1 58 49 3225.4 -7.68 139.93
 110.00 8 16 44 2375.00 -34.16 49.91 243.43 91.19 8 56 19 1775.0 -33.62 40.71
 110.00 1 27 41 3723.13 .01 136.42 233.03 55.82 2 29 44 3123.1 -4.47 130.21

DIFFERENTIAL CORRECTIONS

TDE 1.7458 TRA 2.5705 TC3-1.8383 BAU .4797
 RDE -.2165 RRA -.7676 RC3 .4026 FAU .09814
 FDE 6.3448 FRA 9.6873 FC3-4.4563 BSP 14213
 BDE 1.7591 BRA 2.6826 BC3 1.8819 FSP -5111

MID-COURSE EXECUTION ACCURACY

SGT 4610.4 SGR 1184.1 SG3 1433.3
 RRT -.9573 RRF -.9595 RTF .9928
 SGB 4760.0 R23 .0143 R13 -.9932
 SG1 4748.4 SG2 332.4 THA 166.12

ORBIT DETERMINATION ACCURACY

ST 2541.4 SR 434.3 SS 2811.2
 CRT -.9171 CRS .9226 CST -.9999
 LSA 3810.6 MSA 171.2 SSA 12.6
 EL1 2572.5 EL2 171.0 ALF 171.05

LAUNCH DATE NOV 20 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 541.131

RL 147.80 LAL .00 LOL 57.74 VL 27.885 GAL 6.47 AZL 87.49 HCA 237.01 SMA 130.33 ECC .17441 INC 2.5118 V1 30.145
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.666 GAP 3.40 AZP 91.37 TAL 146.25 TAP 23.26 RCA 107.60 APO 153.06 V2 34.793
 RC 93.644 GL 15.87 GP 13.50 ZAL 38.18 ZAP 126.53 ETS 10.28 ZAE 133.82 ETE 166.63 ZAC 78.79 ETC 167.91 CLP-127.74

PLANETOCENTRIC CONIC

C3 19.717 VHL 4.440 DLA 23.43 RAL 14.49 RAD 6567.8 VEL 11.878 PTH 2.11 VHP 3.638 DPA 4.19 RAP 344.14 ECC 1.3245
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 54 3047.57 -27.69 99.88 244.11 83.80 5 39 41 2447.6 -28.26 91.26
 90.00 23 54 2 4018.45 -5.79 161.82 237.18 62.23 25 1 1 3418.5 -9.46 155.07
 100.00 6 28 38 2725.98 -29.60 76.42 244.31 85.65 7 14 4 2126.0 -29.89 67.63
 100.00 1 0 55 3815.28 -4.10 145.96 236.25 60.36 2 4 30 3215.3 -8.02 139.36
 110.00 8 13 53 2396.70 -34.18 51.61 244.50 90.19 8 53 50 1796.7 -33.78 42.39
 110.00 1 32 9 3717.32 -.21 136.12 233.82 55.82 2 34 6 3117.3 -4.69 129.90

DIFFERENTIAL CORRECTIONS

TDE 1.9139 TRA 2.8009 TC3-1.8876 BAU .5064
 RDE -.1601 RRA -.6991 RC3 .3568 FAU .08962
 FDE 5.9803 FRA 9.0919 FC3-3.9352 BSP 15297
 BDE 1.9205 BRA 2.8868 BC3 1.9210 FSP -4772

MID-COURSE EXECUTION ACCURACY

SGT 4941.9 SGR 1053.3 SG3 1325.1
 RRT -.9439 RRF -.9453 RTF .9931
 SGB 5052.9 R23 .0102 R13 -.9934
 SG1 5041.4 SG2 340.9 THA 168.57

ORBIT DETERMINATION ACCURACY

ST 2738.1 SR 360.2 SS 2708.9
 CRT -.8711 CRS .8783 CST -.9999
 LSA 3864.5 MSA 176.3 SSA 12.5
 EL1 2756.1 EL2 175.7 ALF 173.44

LAUNCH DATE NOV 20 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 547.266

RL 147.80 LAL .00 LOL 57.74 VL 27.877 GAL 6.63 AZL 87.41 HCA 240.17 SMA 130.27 ECC .17656 INC 2.5940 V1 30.145
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.657 GAP 3.82 AZP 91.29 TAL 145.82 TAP 26.00 RCA 107.27 APO 153.27 V2 34.789
 RC 96.038 GL 16.09 GP 12.49 ZAL 37.93 ZAP 130.32 ETS 10.84 ZAE 131.73 ETE 168.27 ZAC 78.43 ETC 167.79 CLP-131.50

PLANETOCENTRIC CONIC

C3 20.443 VHL 4.521 DLA 23.78 RAL 14.75 RAD 6567.8 VEL 11.909 PTH 2.12 VHP 3.795 DPA 3.03 RAP 343.99 ECC 1.3364
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 44 43 3074.60 -27.47 101.83 245.12 82.85 5 35 57 2474.6 -28.18 93.23
 90.00 0 4 16 4008.65 -6.10 161.27 238.16 62.29 1 11 5 3408.6 -9.76 154.50
 100.00 6 25 16 2750.37 -29.46 78.22 245.37 84.72 7 11 6 2150.4 -29.88 69.44
 100.00 1 6 24 3808.10 -4.34 145.57 237.19 60.40 2 9 52 3208.1 -8.25 138.96
 110.00 8 11 46 2417.19 -34.18 53.21 245.66 89.24 8 52 3 1817.2 -33.90 43.97
 110.00 1 36 23 3714.05 -.33 135.95 234.70 55.82 2 38 17 3114.1 -4.82 129.73

DIFFERENTIAL CORRECTIONS

TDE 2.0736 TRA 3.0235 TC3-1.9163 BAU .5308
 RDE -.1080 RRA -.6391 RC3 .3162 FAU .08113
 FDE 5.6127 FRA 8.5186 FC3-3.4357 BSP 16296
 BDE 2.0764 BRA 3.0904 BC3 1.9422 FSP -4426

MID-COURSE EXECUTION ACCURACY

SGT 5238.1 SGR 940.1 SG3 1220.0
 RRT -.9262 RRF -.9267 RTF .9932
 SGB 5321.8 R23 .0072 R13 -.9933
 SG1 5310.3 SG2 349.7 THA 170.52

ORBIT DETERMINATION ACCURACY

ST 2912.9 SR 298.8 SS 2604.9
 CRT -.7968 CRS .8061 CST -.9999
 LSA 3915.0 MSA 181.1 SSA 12.5
 EL1 2922.7 EL2 180.0 ALF 175.31

LAUNCH DATE NOV 20 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 553.374

RL 147.80 LAL .00 LOL 57.74 VL 27.868 GAL 6.80 AZL 87.33 HCA 243.34 SMA 130.21 ECC .17897 INC 2.6713 V1 30.145
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.647 GAP 4.25 AZP 91.20 TAL 145.37 TAP 28.70 RCA 106.90 APO 153.51 V2 34.787
 RC 98.436 GL 16.25 GP 11.58 ZAL 37.63 ZAP 133.84 ETS 11.33 ZAE 129.82 ETE 169.60 ZAC 78.32 ETC 167.64 CLP-134.99

PLANETOCENTRIC CONIC

C3 21.250 VHL 4.610 DLA 24.07 RAL 15.07 RAD 6567.9 VEL 11.943 PTH 2.13 VHP 3.967 DPA 2.07 RAP 344.05 ECC 1.3497
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 23 3099.98 -27.24 103.65 246.21 81.96 5 33 3 2500.0 -28.07 95.08
 90.00 0 10 9 4001.85 -6.32 160.88 239.22 62.34 1 16 51 3401.8 -9.97 154.11
 100.00 6 22 41 2773.33 -29.31 79.91 246.50 83.84 7 8 55 2173.3 -29.85 71.15
 100.00 1 11 31 3803.73 -4.49 145.33 238.22 60.42 2 14 55 3203.7 -8.39 138.72
 110.00 8 10 18 2436.66 -34.15 54.73 246.89 88.34 8 50 55 1836.7 -34.00 45.49
 110.00 1 40 24 3713.16 -.37 135.90 235.66 55.82 2 42 17 3113.2 -4.85 129.68

DIFFERENTIAL CORRECTIONS

TDE 2.2244 TRA 3.2397 TC3-1.9277 BAU .5534
 RDE -.0597 RRA -.5867 RC3 .2808 FAU .07304
 FDE 5.2502 FRA 7.9758 FC3-2.9755 BSP 17233
 BDE 2.2252 BRA 3.2924 BC3 1.9480 FSP -4093

MID-COURSE EXECUTION ACCURACY

SGT 5500.2 SGR 842.9 SG3 1119.8
 RRT -.9033 RRF -.9031 RTF .9931
 SGB 5564.4 R23 .0051 R13 -.9932
 SG1 5552.8 SG2 358.2 THA 172.09

ORBIT DETERMINATION ACCURACY

ST 3065.5 SR 250.9 SS 2500.1
 CRT -.6792 CRS .6912 CST -.9998
 LSA 3959.3 MSA 185.7 SSA 12.6
 EL1 3070.2 EL2 183.9 ALF 176.81

LAUNCH DATE NOV 20 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 27.857 GAL 7.00 AZL 87.26 HCA 246.50 SMA 130.13 ECC .18167 INC 2.7443 V1 30.145
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.638 GAP 4.68 AZP 91.10 TAL 144.88 TAP 31.38 RCA 106.49 APO 153.78 V2 34.785
 RC 100.837 GL 16.34 GP 10.76 ZAL 37.29 ZAP 137.10 ETS 11.78 ZAE 128.09 ETE 170.68 ZAC 78.43 ETC 167.48 CLP-138.22

DISTANCE 559.453

PLANETOCENTRIC CONIC
 C3 22.148 VHL 4.706 CLA 24.32 RAL 15.44 RAD 6567.9 VEL 11.980 PTH 2.14 VHP 4.154 OPA 1.29 RAP 344.31 ECC 1.3645
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 52 3123.84 -27.00 105.36 247.39 81.14 5 30 56 2523.8 -27.95 96.82
 90.00 0 15 36 3997.95 -6.44 160.66 240.35 62.37 1 22 14 3398.0 -10.09 153.89
 100.00 6 20 51 2795.00 -29.14 81.50 247.72 83.02 7 7 26 2195.0 -29.80 72.76
 100.00 1 16 18 3802.02 -4.55 145.23 239.32 60.42 2 19 40 3202.0 -8.45 138.62
 110.00 8 9 27 2455.27 -34.10 56.18 248.21 87.48 8 50 22 1855.3 -34.07 46.93
 110.00 1 44 12 3714.52 -1.32 135.97 236.69 55.82 2 46 6 3114.5 -4.80 129.76

DIFFERENTIAL CORRECTIONS
 TOE 2.3691 TRA 3.4536 TC3-1.9207 BAU .5735
 RDE -.0151 RRA -.5411 RC3 .2496 FAU .06528
 FDE 4.9055 FRA 7.4738 FC3-2.5519 BSP 18067
 BDE 2.3692 BRA 3.4957 BC3 1.9369 FSP -3769

MID-COURSE EXECUTION ACCURACY
 SGT 5733.9 SGR 760.3 SG3 1026.5
 RRT -.8746 RRF -.8737 RTF .9930
 SGB 5784.1 R23 .0034 R13 -.9930
 SGI 5772.5 SG2 366.1 THA 173.36

ORBIT DETERMINATION ACCURACY
 ST 3199.8 SR 217.8 SS 2398.3
 CRT -.5074 CRS .5222 CST -.9998
 LSA 4000.2 MSA 189.8 SSA 12.6
 EL1 3201.7 EL2 187.5 ALF 178.02

LAUNCH DATE NOV 20 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 27.846 GAL 7.21 AZL 87.19 HCA 249.66 SMA 130.05 ECC .18466 INC 2.8139 V1 30.145
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.628 GAP 5.12 AZP 90.98 TAL 144.37 TAP 34.02 RCA 106.04 APO 154.07 V2 34.784
 RC 103.240 GL 16.37 GP 10.02 ZAL 36.91 ZAP 140.14 ETS 12.20 ZAE 126.51 ETE 171.56 ZAC 78.75 ETC 167.32 CLP-141.21

DISTANCE 565.502

PLANETOCENTRIC CONIC
 C3 23.144 VHL 4.811 CLA 24.52 RAL 15.86 RAD 6567.9 VEL 12.022 PTH 2.15 VHP 4.355 OPA .67 RAP 344.75 ECC 1.3809
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 37 8 3146.28 -26.76 106.95 248.64 80.37 5 29 34 2546.3 -27.82 98.45
 90.00 0 20 39 3996.90 -6.47 160.61 241.55 62.37 1 27 16 3396.9 -10.12 153.83
 100.00 6 19 44 2815.51 -28.96 83.00 249.02 82.25 7 6 39 2215.5 -29.73 74.28
 100.00 1 20 45 3802.90 -4.52 145.28 240.48 60.42 2 24 8 3202.9 -8.42 138.67
 110.00 8 9 10 2473.14 -34.04 57.57 249.60 86.66 8 50 23 1873.1 -34.13 48.33
 110.00 1 47 48 3718.04 -1.18 136.16 237.79 55.82 2 49 46 3118.0 -4.67 129.94

DIFFERENTIAL CORRECTIONS
 TOE 2.5106 TRA 3.6690 TC3-1.8941 BAU .5901
 RDE .0260 RRA -.5013 RC3 .2215 FAU .05775
 FDE 4.5863 FRA 7.0169 FC3-2.1602 BSP 18765
 BDE 2.5108 BRA 3.7031 BC3 1.9070 FSP -3450

MID-COURSE EXECUTION ACCURACY
 SGT 5943.9 SGR 690.7 SG3 940.6
 RRT -.8398 RRF -.8380 RTF .9927
 SGB 5983.9 R23 .0020 R13 -.9927
 SGI 5972.2 SG2 373.2 THA 174.40

ORBIT DETERMINATION ACCURACY
 ST 3319.6 SR 199.4 SS 2302.4
 CRT -.2890 CRS .3062 CST -.9998
 LSA 4040.2 MSA 193.6 SSA 12.7
 EL1 3320.1 EL2 190.9 ALF 179.00

LAUNCH DATE NOV 20 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 27.834 GAL 7.45 AZL 87.12 HCA 252.82 SMA 129.97 ECC .18795 INC 2.8807 V1 30.145
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.619 GAP 5.57 AZP 90.85 TAL 143.83 TAP 36.65 RCA 105.54 APO 154.39 V2 34.783
 RC 105.643 GL 16.36 GP 9.35 ZAL 36.49 ZAP 142.96 ETS 12.62 ZAE 125.09 ETE 172.29 ZAC 79.26 ETC 167.17 CLP-143.99

DISTANCE 571.519

PLANETOCENTRIC CONIC
 C3 24.250 VHL 4.924 CLA 24.69 RAL 16.31 RAD 6568.0 VEL 12.068 PTH 2.16 VHP 4.570 OPA .20 RAP 345.35 ECC 1.3991
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 10 3167.39 -26.51 108.45 249.98 79.66 5 28 57 2567.4 -27.67 99.97
 90.00 0 25 17 3998.63 -6.42 160.70 242.82 62.36 1 31 56 3398.6 -10.07 153.93
 100.00 6 19 16 2834.97 -28.77 84.41 250.41 81.53 7 6 31 2235.0 -29.65 75.72
 100.00 1 24 52 3806.28 -4.40 145.47 241.72 60.40 2 28 18 3206.3 -8.31 138.86
 110.00 8 9 24 2490.40 -33.96 58.91 251.08 85.87 8 50 54 1890.4 -34.16 49.67
 110.00 1 51 13 3723.62 .03 136.45 238.96 55.82 2 53 17 3123.6 -4.45 130.23

DIFFERENTIAL CORRECTIONS
 TOE 2.6440 TRA 3.8828 TC3-1.8598 BAU .6064
 RDE .0648 RRA -.4659 RC3 .1976 FAU .05120
 FDE 4.2820 FRA 6.5947 FC3-1.8280 BSP 19472
 BDE 2.6448 BRA 3.9107 BC3 1.8703 FSP -3172

MID-COURSE EXECUTION ACCURACY
 SGT 6127.0 SGR 632.0 SG3 861.3
 RRT -.7981 RRF -.7955 RTF .9924
 SGB 6159.6 R23 .0008 R13 -.9924
 SGI 6147.9 SG2 379.5 THA 175.28

ORBIT DETERMINATION ACCURACY
 ST 3419.3 SR 194.3 SS 2207.0
 CRT -.0530 CRS .0717 CST -.9998
 LSA 4069.6 MSA 197.1 SSA 12.6
 EL1 3419.3 EL2 194.0 ALF 179.83

LAUNCH DATE NOV 20 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 147.80 LAL .00 LOL 57.74 VL 27.821 GAL 7.71 AZL 87.05 HCA 255.98 SMA 129.88 ECC .19157 INC 2.9453 V1 30.145
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.610 GAP 6.02 AZP 90.71 TAL 143.27 TAP 39.25 RCA 104.99 APO 154.76 V2 34.783
 RC 108.045 GL 16.30 GP 8.76 ZAL 36.04 ZAP 145.59 ETS 13.05 ZAE 123.81 ETE 172.90 ZAC 79.94 ETC 167.03 CLP-146.59

DISTANCE 577.502

PLANETOCENTRIC CONIC
 C3 25.479 VHL 5.048 CLA 24.82 RAL 16.81 RAD 6568.0 VEL 12.118 PTH 2.17 VHP 4.798 OPA -.13 RAP 346.10 ECC 1.4193
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 35 54 3187.25 -26.26 109.85 251.40 79.01 5 29 2 2587.3 -27.51 101.40
 90.00 0 29 30 4003.09 -6.28 160.95 244.15 62.33 1 36 13 3403.1 -9.93 154.18
 100.00 6 19 26 2853.48 -28.58 85.76 251.87 80.85 7 6 59 2253.5 -29.55 77.09
 100.00 1 28 39 3812.09 -4.21 145.79 243.01 60.38 2 32 11 3212.1 -8.12 139.19
 110.00 8 10 8 2507.14 -33.87 60.21 252.63 85.11 8 51 55 1907.1 -34.18 50.98
 110.00 1 54 27 3731.19 .32 136.84 240.19 55.82 2 56 38 3131.2 -4.17 130.63

DIFFERENTIAL CORRECTIONS
 TOE 2.7738 TRA 4.1002 TC3-1.8125 BAU .6203
 RDE .1013 RRA -.4343 RC3 .1763 FAU .04513
 FDE 4.0014 FRA 6.2120 FC3-1.5334 BSP 20104
 BDE 2.7756 BRA 4.1231 BC3 1.8211 FSP -2914

MID-COURSE EXECUTION ACCURACY
 SGT 6289.1 SGR 583.0 SG3 788.9
 RRT -.7496 RRF -.7462 RTF .9920
 SGB 6316.1 R23 -.0003 R13 -.9920
 SGI 6304.4 SG2 384.9 THA 176.01

ORBIT DETERMINATION ACCURACY
 ST 3504.6 SR 199.5 SS 2116.4
 CRT -.1590 CRS -.1398 CST -.9998
 LSA 4094.0 MSA 200.2 SSA 12.8
 EL1 3504.8 EL2 197.0 ALF .52

LAUNCH DATE NOV 20 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 583.449

RL 147.80 LAL .00 LOL 57.74 VL 27.807 GAL 7.99 AZL 86.99 HCA 259.14 SMA 129.78 ECC .19553 INC 3.0081 V1 30.145
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.600 GAP 6.49 AZP 90.57 TAL 142.69 TAP 41.83 RCA 104.40 APO 155.15 V2 34.784
 RC 110.446 GL 16.20 GP 8.23 ZAL 35.56 ZAP 148.04 ETS 13.49 ZAE 122.66 ETE 173.41 ZAC 80.77 ETC 166.91 CLP-149.01

PLANETOCENTRIC CONIC

C3 26.844 VHL 5.181 DLA 24.91 RAL 17.34 RAD 6568.1 VEL 12.175 PTH 2.18 VHP 5.039 DPA -.54 RAP 346.97 ECC 1.4418
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 21 3205.95 -26.01 111.16 252.90 78.39 5 29 47 2605.9 -27.35 102.75
 90.00 0 33 17 4010.23 -6.05 161.36 245.53 62.28 1 40 7 3410.2 -9.71 154.60
 100.00 6 20 11 2871.14 -28.38 87.03 253.41 80.20 7 8 3 2271.1 -29.44 78.39
 100.00 1 32 8 3820.27 -3.93 146.24 244.37 60.34 2 35 48 3220.3 -7.85 139.64
 110.00 8 11 19 2523.46 -33.77 61.48 254.26 84.37 8 53 23 1923.5 -34.18 52.26
 110.00 1 57 29 3740.71 .68 137.34 241.49 55.82 2 59 50 3140.7 -3.80 131.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.9008 TRA 4.3230 TC3-1.7544 BAU .6321 SGT 6432.7 SGR 542.1 SG3 723.2 ST 3576.9 SR 211.2 SS 2030.5
 ROE .1358 RRA -.4058 RC3 .1572 FAU .03955 RRT -.6946 RRF -.6904 RTF .9916 CRT .3268 CRS -.3078 CST -.9998
 FOE 3.7438 FRA 5.8669 FC3-1.2756 BSP 20673 SGB 6455.5 R23 -.0013 R13 -.9916 LSA 4113.4 MSA 203.1 SSA 12.8
 BOE 2.9040 BRA 4.3420 BC3 1.7615 FSP -2677 SG1 6443.8 SG2 389.4 THA 176.64 EL1 3577.6 EL2 199.6 ALF 1.11

LAUNCH DATE NOV 20 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 589.355

RL 147.80 LAL .00 LOL 57.74 VL 27.793 GAL 8.29 AZL 86.93 HCA 262.30 SMA 129.68 ECC .19986 INC 3.0696 V1 30.145
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.591 GAP 6.97 AZP 90.41 TAL 142.09 TAP 44.39 RCA 103.76 APO 155.59 V2 34.786
 RC 112.844 GL 16.05 GP 7.75 ZAL 35.05 ZAP 150.35 ETS 13.97 ZAE 121.62 ETE 173.84 ZAC 81.73 ETC 166.80 CLP-151.29

PLANETOCENTRIC CONIC

C3 28.362 VHL 5.326 DLA 24.98 RAL 17.90 RAD 6568.1 VEL 12.237 PTH 2.20 VHP 5.295 DPA -.44 RAP 347.97 ECC 1.4668
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 37 28 3223.56 -25.76 112.39 254.48 77.82 5 31 10 2623.6 -27.18 104.01
 90.00 0 36 40 4020.01 -5.74 161.91 246.97 62.22 1 43 40 3420.0 -9.41 155.16
 100.00 6 21 31 2888.04 -28.18 88.25 255.02 79.60 7 9 39 2288.0 -29.33 79.63
 100.00 1 35 17 3830.76 -3.58 146.82 245.78 60.30 2 39 8 3230.8 -7.50 140.23
 110.00 8 12 56 2539.45 -33.66 62.71 255.96 83.64 8 55 15 1939.5 -34.17 53.51
 110.00 2 0 21 3752.11 1.12 137.93 242.85 55.83 3 2 53 3152.1 -3.37 131.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 3.0264 TRA 4.5536 TC3-1.6867 BAU .6417 SGT 6560.2 SGR 508.2 SG3 663.6 ST 3637.7 SR 226.4 SS 1949.9
 ROE .1688 RRA -.3797 RC3 .1400 FAU .03444 RRT -.6335 RRF -.6285 RTF .9912 CRT .4514 CRS -.4330 CST -.9998
 FOE 3.5091 FRA 5.5566 FC3-1.0514 BSP 21185 SGB 6579.9 R23 -.0022 R13 -.9912 LSA 4128.4 MSA 205.5 SSA 12.8
 BOE 3.0311 BRA 4.5694 BC3 1.6925 FSP -2459 SG1 6568.2 SG2 392.8 THA 177.18 EL1 3639.2 EL2 202.0 ALF 1.61

LAUNCH DATE NOV 20 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 595.220

RL 147.80 LAL .00 LOL 57.74 VL 27.777 GAL 8.63 AZL 86.87 HCA 265.46 SMA 129.57 ECC .20458 INC 3.1301 V1 30.145
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.582 GAP 7.47 AZP 90.25 TAL 141.47 TAP 46.93 RCA 103.06 APO 156.08 V2 34.789
 RC 115.239 GL 15.88 GP 7.32 ZAL 34.52 ZAP 152.52 ETS 14.49 ZAE 120.69 ETE 174.22 ZAC 82.81 ETC 166.70 CLP-153.43

PLANETOCENTRIC CONIC

C3 30.052 VHL 5.482 DLA 25.01 RAL 18.49 RAD 6568.2 VEL 12.306 PTH 2.22 VHP 5.564 DPA -.44 RAP 349.06 ECC 1.4946
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 10 3240.17 -25.52 113.55 256.14 77.29 5 33 10 2640.2 -27.02 105.20
 90.00 0 39 37 4032.36 -5.35 162.61 248.46 62.15 1 46 50 3432.4 -9.03 155.87
 100.00 6 23 21 2904.26 -27.98 89.41 256.72 79.02 7 11 45 2304.3 -29.21 80.82
 100.00 1 38 7 3843.51 -3.15 147.52 247.25 60.26 2 42 11 3243.5 -7.08 140.94
 110.00 8 14 56 2555.18 -33.53 63.92 257.74 82.94 8 57 31 1955.2 -34.15 54.73
 110.00 2 3 2 3765.36 1.63 138.62 244.27 55.85 3 5 47 3165.4 -2.86 132.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 3.1542 TRA 4.7960 TC3-1.6071 BAU .6476 SGT 6675.9 SGR 480.1 SG3 610.1 ST 3691.1 SR 242.8 SS 1876.0
 ROE .2003 RRA -.3555 RC3 .1242 FAU .02959 RRT -.5672 RRF -.5613 RTF .9908 CRT .5419 CRS -.5243 CST -.9998
 FOE 3.2989 FRA 5.2811 FC3 -.8525 BSP 21570 SGB 6693.1 R23 -.0031 R13 -.9907 LSA 4142.4 MSA 207.5 SSA 12.7
 BOE 3.1605 BRA 4.8092 BC3 1.6118 FSP -2252 SG1 6681.5 SG2 395.1 THA 177.66 EL1 3693.5 EL2 204.0 ALF 2.05

LAUNCH DATE NOV 20 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 601.036

RL 147.80 LAL .00 LOL 57.74 VL 27.762 GAL 8.99 AZL 86.81 HCA 268.62 SMA 129.46 ECC .20972 INC 3.1902 V1 30.145
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.574 GAP 7.98 AZP 90.08 TAL 140.84 TAP 49.46 RCA 102.31 APO 156.61 V2 34.792
 RC 117.630 GL 15.67 GP 6.93 ZAL 33.97 ZAP 154.56 ETS 15.07 ZAE 119.84 ETE 174.55 ZAC 84.00 ETC 166.61 CLP-155.46

PLANETOCENTRIC CONIC

C3 31.938 VHL 5.651 DLA 25.02 RAL 19.10 RAD 6568.3 VEL 12.382 PTH 2.24 VHP 5.849 DPA -.35 RAP 350.25 ECC 1.5256
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 28 3255.87 -25.28 114.63 257.87 76.80 5 35 44 2655.9 -26.85 106.32
 90.00 0 42 10 4047.24 -4.87 163.44 250.00 62.07 1 49 38 3447.2 -8.57 156.72
 100.00 6 25 41 2919.88 -27.77 90.52 258.48 78.46 7 14 21 2319.9 -29.08 81.96
 100.00 1 40 39 3858.46 -2.64 148.34 248.76 60.21 2 44 57 3258.5 -6.59 141.77
 110.00 8 17 18 2570.70 -33.40 65.11 259.59 82.25 9 0 8 1970.7 -34.11 55.94
 110.00 2 5 32 3780.41 2.20 139.41 245.74 55.88 3 8 32 3180.4 -2.29 133.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 3.2784 TRA 5.0459 TC3-1.5252 BAU .6529 SGT 6774.2 SGR 456.9 SG3 561.1 ST 3730.8 SR 259.5 SS 1804.4
 ROE .2310 RRA -.3325 RC3 .1102 FAU .02537 RRT -.4963 RRF -.4898 RTF .9903 CRT .6088 CRS -.5919 CST -.9997
 FOE 3.1033 FRA 5.0303 FC3 -.6878 BSP 22000 SGB 6789.6 R23 -.0039 R13 -.9903 LSA 4147.0 MSA 209.2 SSA 12.7
 BOE 3.2865 BRA 5.0569 BC3 1.5292 FSP -2073 SG1 6778.0 SG2 396.4 THA 178.08 EL1 3734.1 EL2 205.7 ALF 2.43

LAUNCH DATE NOV 21 1968

FLIGHT TIME 70.00

ARRIVAL DATE JAN 30 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 14.250 GAL 37.97 AZL 88.65 HCA 28.59 SMA 83.30 ECC .86646 INC 1.3466 VI 30.151
 RP 107.68 LAP .64 LOP 87.33 VP 29.527 GAP -58.53 AZP 88.82 TAL 172.73 TAP 201.32 RCA 11.12 APO 155.48 V2 35.193
 RC 99.759 GL .72 GP -1.04 ZAL 64.29 ZAP 38.35 ETS 176.47 ZAE 128.58 ETE 183.78 ZAC 42.71 ETC 155.33 CLP 38.34

PLANETOCENTRIC CONIC

C3 441.002 VHL 21.000 DLA -1.54 RAL 354.63 RAD 6572.2 VEL 23.713 PTH 3.30 VHP 31.903 OPA -22.37 RAP 308.92 ECC 8.2578
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 10 43 2781.35 -28.12 80.46 260.12 93.49 7 57 4 2181.3 -27.34 71.89
 90.00 18 45 58 5520.63 28.32 256.38 261.76 89.99 20 17 59 4920.6 28.02 247.72
 100.00 8 31 21 2521.26 -29.69 61.23 260.01 93.63 9 13 22 1921.3 -28.87 52.52
 100.00 20 8 2 5255.94 29.89 236.91 261.76 89.90 21 35 38 4655.9 29.56 228.12
 110.00 9 37 57 2312.77 -33.97 45.06 259.67 94.06 10 16 30 1712.8 -33.04 35.95
 110.00 21 17 55 5037.20 34.18 220.29 261.74 89.65 22 41 52 4437.2 33.75 211.07

DIFFERENTIAL CORRECTIONS

TDE-1.0023 TRA-2.3511 TC3 -.1049 BAU .6191
 RDE-1.4855 RRA .7933 RC3 -.0050 FAU .01026
 FDE .3852 FRA .7774 FC3 -.0201 BSP 1949
 BDE 1.7920 BRA 2.4814 BC3 .1050 FSP -44

MID-COURSE EXECUTION ACCURACY

SGT 825.0 SGR 460.0 SG3 21.7
 RRT -.0496 RRF .0444 RTF -.6153
 SGB 944.6 R23 -.0002 R13 .6155
 SG1 825.5 SG2 459.2 THA 177.70

ORBIT DETERMINATION ACCURACY

ST 334.7 SR 410.5 SS 338.7
 CRT .7158 CRS .7623 CST .9958
 LSA 587.2 MSA 224.2 SSA 14.2
 EL1 492.5 EL2 194.8 ALF 53.01

LAUNCH DATE NOV 21 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 1 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 15.086 GAL 35.98 AZL 88.42 HCA 31.82 SMA 84.61 ECC .84270 INC 1.5768 VI 30.151
 RP 107.65 LAP .83 LOP 90.56 VP 29.950 GAP -55.98 AZP 88.66 TAL 171.78 TAP 203.60 RCA 13.31 APO 155.90 V2 35.202
 RC 97.535 GL .95 GP -1.06 ZAL 62.85 ZAP 36.81 ETS 176.44 ZAE 128.28 ETE 184.10 ZAC 44.29 ETC 156.09 CLP 36.80

PLANETOCENTRIC CONIC

C3 406.892 VHL 20.172 DLA -.75 RAL 355.87 RAD 6572.1 VEL 22.982 PTH 3.27 VHP 30.812 OPA -22.02 RAP 310.71 ECC 7.6964
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 9 48 2798.23 -28.18 81.70 261.19 92.88 7 56 26 2198.2 -27.49 73.10
 90.00 18 56 43 5488.75 28.29 254.05 261.99 88.82 20 28 12 4888.8 27.83 245.41
 100.00 8 30 48 2536.97 -29.75 62.39 261.10 93.02 9 13 5 1937.0 -29.02 53.66
 100.00 20 18 24 5225.25 29.87 234.63 261.95 88.70 21 45 30 4625.2 29.37 225.86
 110.00 9 38 14 2325.85 -34.03 46.08 260.81 93.46 10 17 0 1725.9 -33.18 36.94
 110.00 21 27 27 5009.13 34.15 218.09 261.83 88.35 22 50 56 4409.1 33.54 208.90

DIFFERENTIAL CORRECTIONS

TDE-1.0134 TRA-2.3804 TC3 -.1123 BAU .6115
 RDE-1.4437 RRA .7770 RC3 -.0059 FAU .01022
 FDE .4022 FRA .8064 FC3 -.0217 BSP 2062
 BDE 1.7638 BRA 2.5040 BC3 .1124 FSP -48

MID-COURSE EXECUTION ACCURACY

SGT 863.3 SGR 466.3 SG3 23.4
 RRT -.0509 RRF .0459 RTF -.6338
 SGB 981.1 R23 -.0004 R13 .6339
 SG1 863.7 SG2 465.4 THA 177.78

ORBIT DETERMINATION ACCURACY

ST 352.4 SR 415.4 SS 355.0
 CRT .7147 CRS .7636 CST .9957
 LSA 607.9 MSA 230.3 SSA 14.4
 EL1 505.7 EL2 202.5 ALF 51.51

LAUNCH DATE NOV 21 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 3 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 15.877 GAL 34.17 AZL 88.23 HCA 35.06 SMA 85.95 ECC .81835 INC 1.7686 VI 30.151
 RP 107.63 LAP 1.02 LOP 93.80 VP 30.366 GAP -53.56 AZP 88.55 TAL 170.83 TAP 205.89 RCA 15.61 APO 156.28 V2 35.210
 RC 95.312 GL 1.20 GP -1.09 ZAL 61.45 ZAP 35.30 ETS 176.41 ZAE 128.04 ETE 184.43 ZAC 45.90 ETC 156.80 CLP 35.28

PLANETOCENTRIC CONIC

C3 375.628 VHL 19.381 DLA .03 RAL 357.05 RAD 6572.0 VEL 22.292 PTH 3.25 VHP 29.756 OPA -21.65 RAP 312.52 ECC 7.1819
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 45 2814.45 -28.23 82.88 262.18 92.28 7 55 40 2214.4 -27.62 74.27
 90.00 19 7 13 5456.73 28.23 251.71 262.15 87.65 20 38 9 4856.7 27.60 243.09
 100.00 8 30 7 2552.02 -29.80 63.51 262.11 92.44 9 12 39 1952.0 -29.15 54.76
 100.00 20 28 32 5194.38 29.80 232.34 262.07 87.50 21 55 7 4594.4 29.13 223.60
 110.00 9 38 23 2338.31 -34.08 47.05 261.87 92.88 10 17 22 1738.3 -33.30 37.90
 110.00 21 36 45 4980.86 34.07 215.89 261.83 87.05 22 59 46 4380.9 33.29 206.74

DIFFERENTIAL CORRECTIONS

TDE-1.0214 TRA-2.4072 TC3 -.1196 BAU .6015
 RDE-1.4017 RRA .7595 RC3 -.0068 FAU .01021
 FDE .4191 FRA .8353 FC3 -.0235 BSP 2256
 BDE 1.7343 BRA 2.5241 BC3 .1198 FSP -53

MID-COURSE EXECUTION ACCURACY

SGT 901.3 SGR 472.0 SG3 25.1
 RRT -.0526 RRF .0475 RTF -.6516
 SGB 1017.5 R23 -.0003 R13 .6517
 SG1 901.8 SG2 471.1 THA 177.83

ORBIT DETERMINATION ACCURACY

ST 370.1 SR 419.8 SS 371.2
 CRT .7129 CRS .7646 CST .9955
 LSA 628.5 MSA 236.2 SSA 14.6
 EL1 518.7 EL2 210.0 ALF 50.03

LAUNCH DATE NOV 21 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 5 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 16.624 GAL 32.53 AZL 88.07 HCA 38.30 SMA 87.32 ECC .79362 INC 1.9319 VI 30.151
 RP 107.60 LAP 1.20 LOP 97.03 VP 30.772 GAP -51.28 AZP 88.48 TAL 169.87 TAP 208.17 RCA 18.02 APO 156.62 V2 35.218
 RC 93.090 GL 1.45 GP -1.11 ZAL 60.10 ZAP 33.81 ETS 176.36 ZAE 127.86 ETE 184.78 ZAC 47.54 ETC 157.48 CLP 33.79

PLANETOCENTRIC CONIC

C3 346.933 VHL 18.626 DLA .80 RAL 358.19 RAD 6571.9 VEL 21.639 PTH 3.22 VHP 28.734 OPA -21.26 RAP 314.35 ECC 6.7096
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 7 35 2830.00 -28.27 84.02 263.09 91.72 7 54 45 2230.0 -27.73 75.39
 90.00 19 17 28 5424.51 28.12 249.35 262.23 86.48 20 47 52 4824.5 27.33 240.78
 100.00 8 29 18 2566.42 -29.84 64.58 263.03 91.88 9 12 5 1966.4 -29.26 55.82
 100.00 20 38 26 5163.32 29.68 230.03 262.12 86.29 22 4 29 4563.3 28.85 221.33
 110.00 9 38 24 2350.14 -34.11 47.97 262.85 92.34 10 17 34 1750.1 -33.41 38.80
 110.00 21 45 49 4952.36 33.95 213.67 261.77 85.74 23 8 22 4352.4 32.99 204.57

DIFFERENTIAL CORRECTIONS

TDE-1.0321 TRA-2.4371 TC3 -.1274 BAU .5921
 RDE-1.3594 RRA .7410 RC3 -.0079 FAU .01019
 FDE .4366 FRA .8650 FC3 -.0254 BSP 2391
 BDE 1.7068 BRA 2.5473 BC3 .1277 FSP -58

MID-COURSE EXECUTION ACCURACY

SGT 942.5 SGR 477.2 SG3 27.0
 RRT -.0538 RRF .0488 RTF -.6690
 SGB 1056.4 R23 -.0005 R13 .6691
 SG1 942.9 SG2 476.3 THA 177.91

ORBIT DETERMINATION ACCURACY

ST 389.3 SR 423.7 SS 388.0
 CRT .7116 CRS .7657 CST .9953
 LSA 650.4 MSA 241.8 SSA 14.8
 EL1 532.7 EL2 217.6 ALF 48.40

LAUNCH DATE NOV 21 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 7 1969

HELIOCENTRIC CONIC

DISTANCE 144.713

RL 147.77 LAL .00 LOL 58.75 VL 17.331 GAL 31.02 AZL 87.93 HCA 41.54 SMA 88.72 ECC .76868 INC 2.0734 V1 30.151
 RP 107.58 LAP 1.37 LOP 100.27 VP 31.168 GAP -49.11 AZP 88.45 TAL 168.92 TAP 210.46 RCA 20.52 APO 156.92 V2 35.225
 RC 90.872 GL 1.72 GP -1.14 ZAL 58.80 ZAP 32.34 ETS 176.31 ZAE 127.74 ETE 185.14 ZAC 49.22 ETC 158.12 CLP 32.32

PLANETOCENTRIC CONIC

C3 320.559 VHL 17.904 CLA 1.56 RAL 359.28 RAD 6571.8 VEL 21.021 PTH 3.19 VHP 27.744 DPA -20.84 RAP 316.20 ECC 6.2756
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 6 17 2844.89 -28.29 85.10 263.91 91.17 7 53 42 2244.9 -27.83 76.47
 90.00 19 27 29 5392.05 27.96 246.99 262.25 85.31 20 57 21 4792.1 27.01 238.45
 100.00 8 28 21 2580.17 -29.87 65.60 263.87 91.34 9 11 21 1980.2 -29.36 56.83
 100.00 20 48 6 5132.00 29.52 227.72 262.10 85.08 22 13 38 4532.0 28.53 219.06
 110.00 9 38 16 2361.34 -34.14 48.85 263.73 91.82 10 17 37 1761.3 -33.51 39.66
 110.00 21 54 40 4923.60 33.78 211.44 261.64 84.43 23 16 44 4323.6 32.64 202.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0428 TRA-2.4674 TC3 -.1355 BAU .5821 SGT 985.3 SGR 481.7 SG3 29.0 ST 409.5 SR 427.1 SS 405.1
 RDE-1.3170 RRA .7216 RC3 -.0091 FAU .01018 RRT -.0549 RRF .0501 RTF -.6858 CRT .7102 CRS .7667 CST .9951
 FDE .4545 FRA .8953 FC3 -.0275 BSP 2531 SGB 1096.7 R23 -.0007 R13 .6859 LSA 673.0 MSA 247.1 SSA 15.0
 BOE 1.6798 BRA 2.5707 BC3 .1358 FSP -63 SGI 985.8 SG2 480.8 THA 177.98 EL1 547.3 EL2 225.0 ALF 46.69

LAUNCH DATE NOV 21 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 9 1969

HELIOCENTRIC CONIC

DISTANCE 150.333

RL 147.77 LAL .00 LOL 58.75 VL 17.998 GAL 29.61 AZL 87.80 HCA 44.78 SMA 90.14 ECC .74368 INC 2.1980 V1 30.151
 RP 107.56 LAP 1.55 LOP 103.51 VP 31.551 GAP -47.05 AZP 88.44 TAL 167.98 TAP 212.75 RCA 23.10 APO 157.18 V2 35.232
 RC 88.659 GL 2.00 GP -1.17 ZAL 57.55 ZAP 30.89 ETS 176.24 ZAE 127.69 ETE 185.52 ZAC 50.92 ETC 158.73 CLP 30.87

PLANETOCENTRIC CONIC

C3 296.291 VHL 17.213 CLA 2.32 RAL .33 RAD 6571.7 VEL 20.435 PTH 3.16 VHP 26.783 DPA -20.40 RAP 318.06 ECC 5.8762
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 50 2859.14 -28.31 86.15 264.65 90.65 7 52 29 2259.1 -27.92 77.50
 90.00 19 37 17 5359.32 27.75 244.62 262.20 84.13 21 6 36 4759.3 26.65 236.13
 100.00 8 27 16 2593.28 -29.88 66.57 264.63 90.83 9 10 29 1993.3 -29.45 57.79
 100.00 20 57 33 5100.41 29.32 225.39 262.01 83.88 22 22 33 4500.4 28.16 216.78
 110.00 9 37 59 2371.92 -34.16 49.67 264.53 91.33 10 17 31 1771.9 -33.60 40.47
 110.00 22 3 18 4894.54 33.57 209.20 261.44 83.12 23 24 53 4294.5 32.25 200.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0532 TRA-2.4972 TC3 -.1438 BAU .5713 SGT 1029.6 SGR 485.6 SG3 31.2 ST 430.6 SR 429.9 SS 422.5
 RDE-1.2744 RRA .7013 RC3 -.0104 FAU .01019 RRT -.0559 RRF .0513 RTF -.7019 CRT .7089 CRS .7677 CST .9949
 FDE .4728 FRA .9260 FC3 -.0298 BSP 2686 SGB 1138.4 R23 -.0009 R13 .7020 LSA 696.4 MSA 252.1 SSA 15.2
 BOE 1.6533 BRA 2.5938 BC3 .1442 FSP -69 SGI 1030.1 SG2 484.6 THA 178.06 EL1 562.5 EL2 232.2 ALF 44.94

LAUNCH DATE NOV 21 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 11 1969

HELIOCENTRIC CONIC

DISTANCE 156.069

RL 147.77 LAL .00 LOL 58.75 VL 18.628 GAL 28.30 AZL 87.69 HCA 48.02 SMA 91.58 ECC .71877 INC 2.3091 V1 30.151
 RP 107.54 LAP 1.72 LOP 106.75 VP 31.921 GAP -45.08 AZP 88.46 TAL 167.03 TAP 215.06 RCA 25.75 APO 157.40 V2 35.238
 RC 86.453 GL 2.29 GP -1.21 ZAL 56.34 ZAP 29.47 ETS 176.15 ZAE 127.69 ETE 185.92 ZAC 52.64 ETC 159.31 CLP 29.45

PLANETOCENTRIC CONIC

C3 273.939 VHL 16.551 CLA 3.07 RAL 1.33 RAD 6571.6 VEL 19.881 PTH 3.13 VHP 25.851 DPA -19.94 RAP 319.93 ECC 5.5083
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 3 14 2872.77 -28.32 87.14 265.30 90.15 7 51 7 2272.8 -28.00 78.49
 90.00 19 46 52 5326.26 27.50 242.23 262.08 82.96 21 15 39 4726.3 26.24 233.79
 100.00 8 26 1 2605.78 -29.89 67.50 265.30 90.34 9 9 27 2005.8 -29.52 58.71
 100.00 21 6 47 5068.48 29.06 223.06 261.85 82.67 22 31 15 4468.5 27.74 214.50
 110.00 9 37 33 2381.88 -34.17 50.45 265.24 90.87 10 17 15 1781.9 -33.67 41.24
 110.00 22 11 44 4865.14 33.30 206.95 261.18 81.81 23 32 49 4265.1 31.81 198.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0636 TRA-2.5269 TC3 -.1524 BAU .5598 SGT 1075.8 SGR 488.8 SG3 33.5 ST 452.6 SR 432.2 SS 440.4
 RDE-1.2317 RRA .6803 RC3 -.0119 FAU .01022 RRT -.0567 RRF .0524 RTF -.7174 CRT .7075 CRS .7686 CST .9947
 FDE .4915 FRA .9574 FC3 -.0323 BSP 2845 SGB 1181.7 R23 -.0012 R13 .7175 LSA 720.7 MSA 256.7 SSA 15.4
 BOE 1.6273 BRA 2.6169 BC3 .1529 FSP -75 SGI 1076.3 SG2 487.8 THA 178.14 EL1 578.4 EL2 239.0 ALF 43.13

LAUNCH DATE NOV 21 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC

DISTANCE 161.913

RL 147.77 LAL .00 LOL 58.75 VL 19.223 GAL 27.06 AZL 87.59 HCA 51.26 SMA 93.02 ECC .69404 INC 2.4095 V1 30.151
 RP 107.53 LAP 1.88 LOP 109.99 VP 32.277 GAP -43.21 AZP 88.49 TAL 166.10 TAP 217.37 RCA 28.46 APO 157.58 V2 35.243
 RC 84.254 GL 2.59 GP -1.24 ZAL 55.17 ZAP 28.06 ETS 176.05 ZAE 127.76 ETE 186.34 ZAC 54.39 ETC 159.85 CLP 28.04

PLANETOCENTRIC CONIC

C3 253.337 VHL 15.917 CLA 3.82 RAL 2.29 RAD 6571.5 VEL 19.356 PTH 3.10 VHP 24.947 DPA -19.46 RAP 321.81 ECC 5.1693
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 1 29 2885.79 -28.32 88.10 265.87 89.67 7 49 35 2285.8 -28.06 79.44
 90.00 19 56 16 5292.83 27.20 239.83 261.89 81.80 21 24 29 4692.8 25.78 231.45
 100.00 8 24 37 2617.66 -29.89 68.38 265.88 89.87 9 8 15 2017.7 -29.59 59.59
 100.00 21 15 49 5036.19 28.76 220.70 261.63 81.47 22 39 45 4436.2 27.28 212.21
 110.00 9 36 58 2391.24 -34.18 51.18 265.87 90.44 10 16 49 1791.2 -33.74 41.96
 110.00 22 19 58 4835.37 32.99 204.68 260.85 80.50 23 40 33 4235.4 31.33 195.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0740 TRA-2.5563 TC3 -.1612 BAU .5478 SGT 1124.0 SGR 491.4 SG3 36.0 ST 475.7 SR 433.9 SS 458.6
 RDE-1.1889 RRA .6587 RC3 -.0135 FAU .01026 RRT -.0574 RRF .0534 RTF -.7323 CRT .7063 CRS .7695 CST .9945
 FDE .5107 FRA .9895 FC3 -.0351 BSP 3006 SGB 1226.7 R23 -.0015 R13 .7324 LSA 746.0 MSA 260.9 SSA 15.6
 BOE 1.6022 BRA 2.6398 BC3 .1617 FSP -82 SGI 1124.4 SG2 490.4 THA 178.22 EL1 595.2 EL2 245.5 ALF 41.29

LAUNCH DATE NOV 21 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

DISTANCE 167.858

RL 147.77 LAL .00 LOL 58.75 VL 19.785 GAL 25.90 AZL 87.50 HCA 54.51 SMA 94.47 ECC .66959 INC 2.5012 V1 30.151
 RP 107.51 LAP 2.04 LOP 113.23 VP 32.620 GAP -41.42 AZP 88.55 TAL 165.18 TAP 219.69 RCA 31.22 APO 157.73 V2 35.247
 RC 82.065 GL 2.91 GP -1.28 ZAL 54.05 ZAP 26.67 ETS 175.92 ZAE 127.89 ETE 186.78 ZAC 56.16 ETC 160.37 CLP 26.65

PLANETOCENTRIC CONIC

C3 234.335 VHL 15.308 CLA 4.56 RAL 3.20 RAD 6571.4 VEL 18.859 PTH 3.07 VHP 24.068 DPA -18.96 RAP 323.70 ECC 4.8566
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 59 34 2898.24 -28.31 89.01 266.35 89.21 7 47 53 2298.2 -28.12 80.35
 90.00 20 5 28 5258.99 26.85 237.42 261.64 80.63 21 33 7 4659.0 25.28 229.10
 100.00 8 23 3 2628.96 -29.89 69.22 266.38 89.43 9 6 52 2029.0 -29.65 60.43
 100.00 21 24 40 5003.49 28.40 218.34 261.35 80.27 22 48 4 4403.5 26.77 209.92
 110.00 9 36 12 2400.02 -34.18 51.87 266.40 90.04 10 16 13 1800.0 -33.80 42.64
 110.00 22 28 1 4805.20 32.63 202.40 260.46 79.20 23 48 6 4205.2 30.80 193.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0836 TRA-2.5842 TC3 -.1701 BAU .5349 SGT 1173.5 SGR 493.3 SG3 38.7 ST 499.5 SR 434.9 SS 477.3
 RDE-1.1461 RRA .6365 RC3 -.0152 FAU .01032 RRT -.0581 RRF .0543 RTF -.7466 CRT .7049 CRS .7704 CST .9942
 FDE .5305 FRA 1.0222 FC3 -.0381 BSP 3193 SGB 1272.9 R23 -.0017 R13 .7467 LSA 772.2 MSA 264.6 SSA 15.8
 BOE 1.5773 BRA 2.6614 BC3 .1707 FSP -89 SGI 1173.9 SG2 492.3 THA 178.30 EL1 612.7 EL2 251.5 ALF 39.43

LAUNCH DATE NOV 21 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

DISTANCE 173.899

RL 147.77 LAL .00 LOL 58.75 VL 20.315 GAL 24.80 AZL 87.41 HCA 57.76 SMA 95.92 ECC .64551 INC 2.5858 V1 30.151
 RP 107.50 LAP 2.19 LOP 116.48 VP 32.948 GAP -39.70 AZP 88.62 TAL 164.27 TAP 222.03 RCA 34.00 APO 157.85 V2 35.251
 RC 79.887 GL 3.24 GP -1.33 ZAL 52.98 ZAP 25.30 ETS 175.77 ZAE 128.09 ETE 187.24 ZAC 57.96 ETC 160.86 CLP 25.27

PLANETOCENTRIC CONIC

C3 216.801 VHL 14.724 DLA 5.29 RAL 4.07 RAD 6571.2 VEL 18.388 PTH 3.04 VHP 23.215 DPA -18.44 RAP 325.60 ECC 4.5680
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 57 29 2910.13 -28.29 89.88 266.75 88.78 7 45 59 2310.1 -28.16 81.21
 90.00 20 14 30 5224.69 26.44 234.99 261.34 79.48 21 41 35 4624.7 24.72 226.74
 100.00 8 21 19 2639.71 -29.88 70.02 266.78 89.01 9 5 19 2039.7 -29.70 61.22
 100.00 21 33 21 4970.34 28.00 215.96 261.00 79.08 22 56 11 4370.3 26.21 207.61
 110.00 9 35 17 2408.22 -34.18 52.51 266.84 89.66 10 15 25 1808.2 -33.85 43.28
 110.00 22 35 52 4774.60 32.22 200.11 260.01 77.90 23 55 27 4174.6 30.22 191.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0935 TRA-2.6115 TC3 -.1791 BAU .5216 SGT 1225.1 SGR 494.4 SG3 41.5 ST 524.4 SR 435.4 SS 496.6
 RDE-1.1034 RRA .6138 RC3 -.0172 FAU .01039 RRT -.0585 RRF .0551 RTF -.7604 CRT .7038 CRS .7713 CST .9940
 FDE .5509 FRA 1.0558 FC3 -.0415 BSP 3376 SGB 1321.1 R23 -.0021 R13 .7604 LSA 799.5 MSA 267.9 SSA 15.9
 BOE 1.5535 BRA 2.6827 BC3 .1800 FSP -97 SGI 1225.5 SG2 493.4 THA 178.39 EL1 631.3 EL2 256.9 ALF 37.55

LAUNCH DATE NOV 21 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 180.029

RL 147.77 LAL .00 LOL 58.75 VL 20.815 GAL 23.76 AZL 87.34 HCA 61.00 SMA 97.37 ECC .62188 INC 2.6645 V1 30.151
 RP 107.49 LAP 2.33 LOP 119.73 VP 33.262 GAP -38.06 AZP 88.71 TAL 163.38 TAP 224.38 RCA 36.82 APO 157.93 V2 35.254
 RC 77.721 GL 3.59 GP -1.38 ZAL 51.95 ZAP 23.95 ETS 175.58 ZAE 128.37 ETE 187.72 ZAC 59.77 ETC 161.32 CLP 23.91

PLANETOCENTRIC CONIC

C3 200.618 VHL 14.164 DLA 6.03 RAL 4.90 RAD 6571.1 VEL 17.943 PTH 3.00 VHP 22.385 DPA -17.90 RAP 327.50 ECC 4.3017
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 55 12 2921.50 -28.27 90.71 267.06 88.36 7 43 54 2321.5 -28.20 82.04
 90.00 20 23 22 5189.90 25.99 232.54 260.97 78.34 21 49 52 4589.9 24.12 224.37
 100.00 8 19 24 2649.92 -29.86 70.78 267.10 88.61 9 3 34 2049.9 -29.74 61.98
 100.00 21 41 51 4936.71 27.54 213.56 260.60 77.90 23 4 8 4336.7 25.60 205.30
 110.00 9 34 11 2415.87 -34.18 53.10 267.20 89.30 10 14 27 1815.9 -33.90 43.87
 110.00 22 43 34 4743.52 31.75 197.80 259.51 76.61 24 2 37 4143.5 29.58 189.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1057 TRA-2.6404 TC3 -.1889 BAU .5092 SGT 1280.6 SGR 494.9 SG3 44.6 ST 551.5 SR 435.1 SS 516.6
 RDE-1.0608 RRA .5908 RC3 -.0193 FAU .01047 RRT -.0583 RRF .0551 RTF -.7734 CRT .7032 CRS .7723 CST .9938
 FDE .5725 FRA 1.0906 FC3 -.0452 BSP 3504 SGB 1372.8 R23 -.0028 R13 .7735 LSA 828.8 MSA 270.6 SSA 16.1
 BOE 1.5323 BRA 2.7057 BC3 .1899 FSP -105 SGI 1280.9 SG2 493.9 THA 178.49 EL1 651.9 EL2 261.7 ALF 35.61

LAUNCH DATE NOV 21 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 186.241

RL 147.77 LAL .00 LOL 58.75 VL 21.287 GAL 22.77 AZL 87.26 HCA 64.25 SMA 98.81 ECC .59874 INC 2.7385 V1 30.151
 RP 107.48 LAP 2.47 LOP 122.97 VP 33.561 GAP -36.48 AZP 88.81 TAL 162.50 TAP 226.75 RCA 39.65 APO 157.97 V2 35.256
 RC 75.571 GL 3.95 GP -1.43 ZAL 50.97 ZAP 22.60 ETS 175.35 ZAE 128.71 ETE 188.23 ZAC 61.60 ETC 161.76 CLP 22.56

PLANETOCENTRIC CONIC

C3 185.678 VHL 13.626 DLA 6.76 RAL 5.68 RAD 6571.0 VEL 17.521 PTH 2.97 VHP 21.579 DPA -17.34 RAP 329.41 ECC 4.0558
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 52 44 2932.40 -28.25 91.50 267.28 87.96 7 41 36 2332.4 -28.23 82.84
 90.00 20 32 5 5154.56 25.48 230.08 260.54 77.20 21 58 0 4554.6 23.46 221.99
 100.00 8 17 18 2659.65 -29.84 71.50 267.34 88.23 9 1 37 2059.6 -29.77 62.70
 100.00 21 50 13 4902.55 27.03 211.15 260.14 76.73 23 11 55 4302.6 24.94 202.98
 110.00 9 32 54 2423.01 -34.17 53.66 267.46 88.97 10 13 17 1823.0 -33.93 44.42
 110.00 22 51 5 4711.95 31.23 195.49 258.95 75.34 24 9 37 4112.0 28.90 187.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1193 TRA-2.6693 TC3 -.1991 BAU .4971 SGT 1339.1 SGR 494.5 SG3 48.0 ST 580.3 SR 434.2 SS 537.5
 RDE-1.0183 RRA .5676 RC3 -.0216 FAU .01056 RRT -.0576 RRF .0561 RTF -.7858 CRT .7029 CRS .7734 CST .9936
 FDE .5951 FRA 1.1266 FC3 -.0492 BSP 3604 SGB 1427.5 R23 -.0038 R13 .7858 LSA 859.9 MSA 272.8 SSA 16.2
 BOE 1.5132 BRA 2.7289 BC3 .2003 FSP -113 SGI 1339.5 SG2 493.6 THA 178.59 EL1 674.3 EL2 265.8 ALF 33.65

LAUNCH DATE NOV 21 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 192.530

RL 147.77 LAL .00 LOL 58.75 VL 21.731 GAL 21.82 AZL 87.19 HCA 67.50 SMA 100.24 ECC .57615 INC 2.8085 V1 30.151
 RP 107.48 LAP 2.59 LOP 126.22 VP 33.847 GAP -34.97 AZP 88.92 TAL 161.64 TAP 229.14 RCA 42.49 APO 157.99 V2 35.258
 RC 73.439 GL 4.32 GP -1.49 ZAL 50.03 ZAP 21.28 ETS 175.08 ZAE 129.13 ETE 188.77 ZAC 63.44 ETC 162.17 CLP 21.23

PLANETOCENTRIC CONIC

C3 171.887 VHL 13.111 OLA 7.48 RAL 6.42 RAD 6570.9 VEL 17.123 PTH 2.93 VHP 20.795 DPA -16.77 RAP 331.32 ECC 3.8288
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 50 3 2942.87 -28.22 92.27 267.41 87.58 7 39 6 2342.9 -28.26 83.60
 90.00 20 40 40 5118.66 24.91 227.60 260.07 76.08 22 5 59 4518.7 22.75 219.60
 100.00 8 14 59 2668.92 -29.82 72.19 267.49 87.87 8 59 28 2068.9 -29.80 63.39
 100.00 21 58 25 4867.84 26.47 208.73 259.63 75.57 23 19 33 4267.8 24.22 200.65
 110.00 9 31 26 2429.67 -34.16 54.18 267.64 88.67 10 11 56 1829.7 -33.97 44.94
 110.00 22 58 27 4679.86 30.65 193.17 258.34 74.07 24 16 27 4079.9 28.17 184.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1425 TRA-2.7064 TC3 -.2117 BAU .4897 SGT 1407.3 SGR 493.4 SG3 51.6 ST 614.5 SR 432.6 SS 560.0
 RDE -.9760 RRA .5442 RC3 -.0241 FAU .01061 RRT -.0548 RRF .0559 RTF -.7972 CRT .7044 CRS .7748 CST .9937
 FDE .6200 FRA 1.1651 FC3 -.0534 BSP 3476 SGB 1491.3 R23 -.0061 R13 .7973 LSA 896.1 MSA 274.1 SSA 16.5
 BDE 1.5026 BRA 2.7606 BC3 .2131 FSP -119 SG1 1407.6 SG2 492.6 THA 178.74 EL1 701.8 EL2 268.9 ALF 31.52

LAUNCH DATE NOV 21 1968

FLIGHT TIME 96.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 198.881

RL 147.77 LAL .00 LOL 58.75 VL 22.151 GAL 20.92 AZL 87.12 HCA 70.74 SMA 101.65 ECC .55411 INC 2.8754 V1 30.151
 RP 107.48 LAP 2.71 LOP 129.47 VP 34.119 GAP -33.51 AZP 89.05 TAL 160.80 TAP 231.55 RCA 45.33 APO 157.98 V2 35.259
 RC 71.328 GL 4.72 GP -1.55 ZAL 49.14 ZAP 19.96 ETS 174.74 ZAE 129.64 ETE 189.35 ZAC 65.30 ETC 162.57 CLP 19.90

PLANETOCENTRIC CONIC

C3 159.109 VHL 12.614 OLA 8.21 RAL 7.11 RAD 6570.7 VEL 16.746 PTH 2.90 VHP 20.031 DPA -16.18 RAP 333.22 ECC 3.6185
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 8 2952.88 -28.19 93.00 267.46 87.21 7 36 21 2352.9 -28.28 84.33
 90.00 20 49 6 5082.12 24.29 225.11 259.53 74.98 22 13 48 4482.1 21.99 217.19
 100.00 8 12 27 2677.72 -29.80 72.85 267.54 87.53 8 57 4 2077.7 -29.82 64.04
 100.00 22 6 28 4832.52 25.84 206.29 259.06 74.43 23 27 0 4232.5 23.46 198.30
 110.00 9 29 45 2435.80 -34.15 54.66 267.72 88.38 10 10 21 1835.8 -34.00 45.42
 110.00 23 5 39 4647.20 30.02 190.84 257.67 72.83 24 23 6 4047.2 27.38 182.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0539 TRA-2.6298 TC3 -.1969 BAU .4228 SGT 1390.2 SGR 491.7 SG3 54.9 ST 600.4 SR 430.5 SS 571.1
 RDE -.9346 RRA .5198 RC3 -.0270 FAU .01139 RRT -.0743 RRF .0617 RTF -.8125 CRT .6861 CRS .7734 CST .9910
 FDE .6306 FRA 1.1895 FC3 -.0620 BSP 6026 SGB 1474.6 R23 .0073 R13 .8125 LSA 891.2 MSA 278.4 SSA 15.9
 BDE 1.4086 BRA 2.6807 BC3 .1988 FSP -158 SG1 1390.7 SG2 490.2 THA 178.28 EL1 686.1 EL2 274.1 ALF 31.86

LAUNCH DATE NOV 21 1968

FLIGHT TIME 98.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 205.309

RL 147.77 LAL .00 LOL 58.75 VL 22.546 GAL 20.06 AZL 87.06 HCA 73.99 SMA 103.05 ECC .53275 INC 2.9396 V1 30.151
 RP 107.48 LAP 2.83 LOP 132.72 VP 34.377 GAP -32.11 AZP 89.19 TAL 159.98 TAP 233.97 RCA 48.15 APO 157.95 V2 35.259
 RC 69.241 GL 5.13 GP -1.62 ZAL 48.30 ZAP 18.65 ETS 174.32 ZAE 130.22 ETE 189.96 ZAC 67.17 ETC 162.94 CLP 18.58

PLANETOCENTRIC CONIC

C3 147.371 VHL 12.140 OLA 8.94 RAL 7.76 RAD 6570.6 VEL 16.392 PTH 2.86 VHP 19.291 DPA -15.58 RAP 335.13 ECC 3.4254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 44 0 2962.69 -28.16 93.71 267.43 86.86 7 33 22 2362.7 -28.30 85.05
 90.00 20 57 26 5044.96 23.61 222.60 258.95 73.90 22 21 31 4445.0 21.18 214.77
 100.00 8 9 42 2686.28 -29.77 73.48 267.52 87.19 8 54 28 2086.3 -29.84 64.68
 100.00 22 14 25 4796.60 25.16 203.83 258.45 73.31 23 34 22 4196.6 22.64 195.95
 110.00 9 27 52 2441.64 -34.14 55.12 267.73 88.11 10 8 34 1841.6 -34.02 45.87
 110.00 23 12 44 4614.00 29.33 188.50 256.97 71.60 24 29 38 4014.0 26.54 180.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1175 TRA-2.7042 TC3 -.2194 BAU .4362 SGT 1493.7 SGR 489.0 SG3 59.4 ST 654.7 SR 427.3 SS 599.7
 RDE -.8927 RRA .4968 RC3 -.0299 FAU .01122 RRT -.0627 RRF .0591 RTF -.8210 CRT .6958 CRS .7760 CST .9922
 FDE .6634 FRA 1.2360 FC3 -.0659 BSP 4937 SGB 1571.7 R23 -.0015 R13 .8210 LSA 945.4 MSA 277.1 SSA 16.4
 BDE 1.4303 BRA 2.7494 BC3 .2214 FSP -154 SG1 1494.0 SG2 487.9 THA 178.68 EL1 732.1 EL2 274.5 ALF 28.85

LAUNCH DATE NOV 21 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 211.794

RL 147.77 LAL .00 LOL 58.75 VL 22.919 GAL 19.23 AZL 87.00 HCA 77.24 SMA 104.42 ECC .51202 INC 3.0017 V1 30.151
 RP 107.48 LAP 2.93 LOP 135.97 VP 34.621 GAP -30.76 AZP 89.34 TAL 159.19 TAP 236.43 RCA 50.96 APO 157.89 V2 35.258
 RC 67.184 GL 5.57 GP -1.69 ZAL 47.50 ZAP 17.35 ETS 173.81 ZAE 130.90 ETE 190.62 ZAC 69.06 ETC 163.29 CLP 17.27

PLANETOCENTRIC CONIC

C3 136.520 VHL 11.684 OLA 9.67 RAL 8.37 RAD 6570.5 VEL 16.058 PTH 2.83 VHP 18.571 DPA -14.97 RAP 337.04 ECC 3.2468
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 40 36 2972.21 -28.12 94.41 267.31 86.51 7 30 8 2372.2 -28.31 85.75
 90.00 21 5 40 5007.10 22.87 220.07 258.33 72.84 22 29 8 4407.1 20.31 212.33
 100.00 8 6 42 2694.52 -29.74 74.09 267.42 86.87 8 51 36 2094.5 -29.86 65.29
 100.00 22 22 16 4760.02 24.43 201.37 257.80 72.21 23 41 36 4160.0 21.76 193.58
 110.00 9 25 45 2447.11 -34.12 55.54 267.65 87.86 10 6 33 1847.1 -34.04 46.30
 110.00 23 19 41 4580.20 28.58 186.15 256.23 70.40 24 36 1 3980.2 25.64 178.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1370 TRA-2.7323 TC3 -.2311 BAU .4260 SGT 1565.1 SGR 485.5 SG3 63.9 ST 690.9 SR 423.4 SS 624.3
 RDE -.8514 RRA .4734 RC3 -.0330 FAU .01136 RRT -.0600 RRF .0588 RTF -.8309 CRT .6973 CRS .7775 CST .9923
 FDE .6916 FRA 1.2780 FC3 -.0720 BSP 4907 SGB 1638.7 R23 -.0037 R13 .8309 LSA 984.7 MSA 276.6 SSA 16.6
 BDE 1.4205 BRA 2.7730 BC3 .2334 FSP -164 SG1 1565.4 SG2 484.6 THA 178.82 EL1 762.2 EL2 275.1 ALF 26.92

LAUNCH DATE NOV 21 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 218.331

RL 147.77 LAL .00 LOL 58.75 VL 23.270 GAL 18.45 AZL 86.94 MCA 80.48 SMA 105.77 ECC .49196 INC 3.0623 VI 30.151
 RP 107.48 LAP 3.02 LOP 139.22 VP 34.853 GAP -29.46 AZP 89.49 TAL 158.42 TAP 238.90 RCA 53.74 APO 157.80 V2 35.257
 RC 65.159 GL 6.02 GP -1.77 ZAL 46.75 ZAP 16.06 ETS 173.17 ZAE 131.67 ETE 191.32 ZAC 70.95 ETC 163.63 CLP 15.97

PLANETOCENTRIC CONIC

C3 126.504 VHL 11.247 CLA 10.40 RAL 8.93 RAD 6570.3 VEL 15.743 PTH 2.79 VHP 17.871 DPA -14.35 RAP 338.94 ECC 3.0819
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 36 56 2981.55 -28.08 95.09 267.11 86.17 7 26 37 2381.6 -28.31 86.43
 90.00 21 13 49 4968.52 22.08 217.52 257.66 71.80 22 36 38 4368.5 19.38 209.88
 100.00 8 3 26 2702.54 -29.71 74.69 267.23 86.56 8 48 29 2102.5 -29.87 65.89
 100.00 22 30 0 4722.77 23.63 198.89 257.10 71.14 23 48 43 4122.8 20.83 191.20
 110.00 9 23 25 2452.29 -34.11 55.95 267.49 87.62 10 4 17 1852.3 -34.06 46.70
 110.00 23 26 31 4545.79 27.77 183.80 255.44 69.22 24 42 16 3945.8 24.69 175.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1475 TRA -2.7494 TC3 -.2401 BAU .4107 SGT 1631.3 SGR 481.3 SG3 68.8 ST 724.2 SR 418.8 SS 648.9
 RDE -.8106 RRA .4502 RC3 -.0365 FAU .01159 RRT -.0591 RRF .0591 RTF -.8406 CRT .6974 CRS .7788 CST .9921
 FDE .7200 FRA 1.3204 FC3 -.0793 BSP 5095 SGB 1700.8 R23 -.0047 R13 .8406 LSA 1022.1 MSA 275.9 SSA 16.7
 BDE 1.4049 BRA 2.7860 BC3 .2428 FSP -178 SG1 1631.6 SG2 480.3 THA 178.91 EL1 790.0 EL2 275.1 ALF 25.24

LAUNCH DATE NOV 21 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 224.917

RL 147.77 LAL .00 LOL 58.75 VL 23.600 GAL 17.69 AZL 86.88 MCA 83.73 SMA 107.09 ECC .47258 INC 3.1218 VI 30.151
 RP 107.49 LAP 3.10 LOP 142.47 VP 35.072 GAP -28.20 AZP 89.66 TAL 157.67 TAP 241.40 RCA 56.48 APO 157.70 V2 35.254
 RC 63.173 GL 6.49 GP -1.86 ZAL 46.05 ZAP 14.78 ETS 172.38 ZAE 132.53 ETE 192.08 ZAC 72.85 ETC 163.95 CLP 14.67

PLANETOCENTRIC CONIC

C3 117.263 VHL 10.829 CLA 11.13 RAL 9.45 RAD 6570.2 VEL 15.447 PTH 2.76 VHP 17.190 DPA -13.72 RAP 340.85 ECC 2.9299
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 58 2990.82 -28.03 95.76 266.83 85.84 7 22 49 2390.8 -28.32 87.11
 90.00 21 21 54 4929.20 21.22 214.96 256.96 70.79 22 44 3 4329.2 18.40 207.41
 100.00 7 59 54 2710.44 -29.68 75.27 266.96 86.26 8 45 5 2110.4 -29.88 66.47
 100.00 22 37 39 4684.81 22.77 196.39 256.37 70.09 23 55 44 4084.8 19.85 188.81
 110.00 9 20 49 2457.25 -34.10 56.33 267.25 87.39 10 1 46 1857.2 -34.08 47.09
 110.00 23 33 13 4510.77 26.90 181.45 254.63 68.07 24 48 24 3910.8 23.69 173.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1552 TRA -2.7612 TC3 -.2479 BAU .3937 SGT 1696.7 SGR 476.2 SG3 74.0 ST 757.2 SR 413.4 SS 674.3
 RDE -.7703 RRA .4273 RC3 -.0401 FAU .01187 RRT -.0586 RRF .0596 RTF -.8499 CRT .6973 CRS .7801 CST .9918
 FDE .7498 FRA 1.3641 FC3 -.0876 BSP 5360 SGB 1762.3 R23 -.0055 R13 .8500 LSA 1059.9 MSA 274.5 SSA 16.7
 BDE 1.3884 BRA 2.7941 BC3 .2511 FSP -193 SG1 1697.0 SG2 475.3 THA 178.98 EL1 817.9 EL2 274.3 ALF 23.66

LAUNCH DATE NOV 21 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 231.548

RL 147.77 LAL .00 LOL 58.75 VL 23.911 GAL 16.97 AZL 86.82 MCA 86.98 SMA 108.38 ECC .45389 INC 3.1804 VI 30.151
 RP 107.50 LAP 3.18 LOP 145.72 VP 35.279 GAP -26.99 AZP 89.83 TAL 156.95 TAP 243.93 RCA 59.19 APO 157.58 V2 35.251
 RC 61.231 GL 6.99 GP -1.96 ZAL 45.39 ZAP 13.51 ETS 171.38 ZAE 133.50 ETE 192.89 ZAC 74.75 ETC 164.25 CLP 13.37

PLANETOCENTRIC CONIC

C3 108.744 VHL 10.428 CLA 11.87 RAL 9.92 RAD 6570.1 VEL 15.168 PTH 2.72 VHP 16.528 DPA -13.09 RAP 342.74 ECC 2.7897
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 28 42 3000.11 -27.99 96.44 266.47 85.50 7 18 42 2400.1 -28.32 87.79
 90.00 21 29 56 4889.08 20.30 212.37 256.22 69.82 22 51 25 4289.1 17.37 204.93
 100.00 7 56 4 2718.30 -29.64 75.85 266.61 85.95 8 41 23 2118.3 -29.89 67.06
 100.00 22 45 14 4646.12 21.85 193.89 255.60 69.08 24 2 40 4046.1 18.81 186.41
 110.00 9 17 58 2462.07 -34.08 56.71 266.93 87.17 9 59 0 1862.1 -34.10 47.46
 110.00 23 39 50 4475.12 25.97 179.09 253.78 66.95 24 54 25 3875.1 22.63 171.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1664 TRA -2.7742 TC3 -.2565 BAU .3783 SGT 1767.2 SGR 470.3 SG3 79.8 ST 793.3 SR 407.1 SS 701.3
 RDE -.7305 RRA .4048 RC3 -.0440 FAU .01215 RRT -.0574 RRF .0599 RTF -.8586 CRT .6979 CRS .7816 CST .9917
 FDE .7822 FRA 1.4104 FC3 -.0967 BSP 5541 SGB 1828.7 R23 -.0069 R13 .8587 LSA 1101.1 MSA 272.4 SSA 16.8
 BDE 1.3763 BRA 2.8035 BC3 .2602 FSP -209 SG1 1767.4 SG2 469.5 THA 179.06 EL1 849.0 EL2 272.4 ALF 22.10

LAUNCH DATE NOV 21 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 238.217

RL 147.77 LAL .00 LOL 58.75 VL 24.203 GAL 16.28 AZL 86.76 MCA 90.22 SMA 109.64 ECC .43591 INC 3.2388 VI 30.151
 RP 107.51 LAP 3.24 LOP 148.97 VP 35.474 GAP -25.82 AZP 90.01 TAL 156.26 TAP 246.48 RCA 61.85 APO 157.44 V2 35.248
 RC 59.338 GL 7.51 GP -2.07 ZAL 44.79 ZAP 12.25 ETS 170.10 ZAE 134.57 ETE 193.79 ZAC 76.66 ETC 164.54 CLP 12.07

PLANETOCENTRIC CONIC

C3 100.893 VHL 10.045 CLA 12.62 RAL 10.34 RAD 6570.0 VEL 14.908 PTH 2.69 VHP 15.885 DPA -12.46 RAP 344.63 ECC 2.6604
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 5 3009.53 -27.93 97.12 266.04 85.16 7 14 15 2409.5 -28.31 88.48
 90.00 21 37 55 4848.16 19.31 209.77 255.46 68.88 22 58 43 4248.2 16.27 202.42
 100.00 7 51 56 2726.23 -29.60 76.44 266.19 85.65 8 37 22 2126.2 -29.89 67.65
 100.00 22 52 46 4606.68 20.87 191.37 254.80 68.10 24 9 33 4006.7 17.72 183.99
 110.00 9 14 49 2466.85 -34.06 57.08 266.53 86.95 9 55 56 1866.8 -34.11 47.84
 110.00 23 46 22 4438.83 24.99 176.74 252.91 65.88 25 0 20 3838.8 21.51 169.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1742 TRA -2.7810 TC3 -.2632 BAU .3609 SGT 1835.9 SGR 463.6 SG3 86.0 ST 828.7 SR 400.0 SS 729.1
 RDE -.6912 RRA .3829 RC3 -.0482 FAU .01249 RRT -.0571 RRF .0608 RTF -.8671 CRT .6981 CRS .7831 CST .9914
 FDE .8163 FRA 1.4583 FC3 -.1072 BSP 5814 SGB 1893.5 R23 -.0079 R13 .8671 LSA 1142.5 MSA 269.8 SSA 16.9
 BDE 1.3625 BRA 2.8073 BC3 .2675 FSP -228 SG1 1836.1 SG2 462.8 THA 179.12 EL1 879.7 EL2 269.7 ALF 20.65

LAUNCH DATE NOV 21 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 244.921

RL 147.77 LAL .00 LOL 58.75 VL 24.478 GAL 15.62 AZL 86.70 MCA 93.47 SMA 110.87 ECC .41862 INC 3.2971 VI 30.151
 RP 107.52 LAP 3.29 LOP 152.22 VP 35.658 GAP -24.69 AZP 90.20 TAL 155.59 TAP 249.06 RCA 64.46 APO 157.28 V2 35.243
 RC 57.501 GL 8.05 GP -2.19 ZAL 44.24 ZAP 10.99 ETS 168.44 ZAE 135.75 ETE 194.76 ZAC 78.57 ETC 164.81 CLP 10.77

PLANETOCENTRIC CONIC

C3 93.661 VML 9.678 DLA 13.37 RAL 10.72 RAD 6569.8 VEL 14.663 PTH 2.66 VHP 15.261 DPA -11.82 RAP 346.52 ECC 2.5414
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 7 3019.21 -27.88 97.83 265.54 84.81 7 9 26 2419.2 -28.30 89.19
 90.00 21 45 54 4806.37 18.27 207.15 254.66 67.98 23 6 1 4206.4 15.12 199.89
 100.00 7 47 26 2734.35 -29.56 77.04 265.70 85.33 8 33 1 2134.4 -29.89 68.25
 100.00 23 0 16 4566.47 19.83 188.84 253.98 67.16 24 16 22 3966.5 16.56 181.56
 110.00 9 11 23 2471.68 -34.05 57.46 266.07 86.73 9 52 35 1871.7 -34.12 48.21
 110.00 23 52 48 4401.91 23.94 174.38 252.01 64.84 25 6 10 3801.9 20.35 167.08

DIFFERENTIAL CORRECTIONS

TDE-1.1826 TRA-2.7860 TC3 -.2694 BAU .3437
 RDE -.6525 RRA .3615 RC3 -.0526 FAU .01287
 FDE .8930 FRA 1.5087 FC3 -.1190 BSP 6075
 BDE 1.3507 BRA 2.8093 BC3 .2745 FSP -248

MID-COURSE EXECUTION ACCURACY

SGT 1906.8 SGR 456.0 SG3 92.7
 RRT -.0568 RRF .0620 RTF -.8750
 SGB 1960.6 R23 -.0092 R13 .8750
 SG1 1907.0 SG2 455.3 THA 179.17

ORBIT DETERMINATION ACCURACY

ST 865.5 SR 391.9 SS 758.5
 CRT .6986 CRS .7846 CST .9913
 LSA 1186.0 MSA 266.6 SSA 16.9
 EL1 912.1 EL2 266.1 ALF 19.26

LAUNCH DATE NOV 21 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 251.654

RL 147.77 LAL .00 LOL 58.75 VL 24.736 GAL 14.98 AZL 86.64 MCA 96.71 SMA 112.06 ECC .40204 INC 3.3558 VI 30.151
 RP 107.54 LAP 3.33 LOP 153.47 VP 35.831 GAP -23.60 AZP 90.39 TAL 154.96 TAP 251.67 RCA 67.01 APO 157.11 V2 35.238
 RC 55.726 GL 8.62 GP -2.32 ZAL 43.74 ZAP 9.75 ETS 166.26 ZAE 137.04 ETE 195.84 ZAC 80.48 ETC 165.07 CLP 9.47

PLANETOCENTRIC CONIC

C3 87.005 VML 9.328 DLA 14.13 RAL 11.05 RAD 6569.7 VEL 14.434 PTH 2.62 VHP 14.654 DPA -11.19 RAP 348.40 ECC 2.4319
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 44 3029.31 -27.81 98.56 264.96 84.45 7 4 14 2429.3 -28.29 89.92
 90.00 21 53 54 4763.69 17.16 204.51 253.85 67.12 23 13 18 4163.7 13.91 197.34
 100.00 7 42 35 2742.79 -29.51 77.66 265.14 85.01 8 28 18 2142.8 -29.89 68.88
 100.00 23 7 45 4525.45 18.72 186.29 253.14 66.26 24 23 10 3925.4 15.36 179.11
 110.00 9 7 30 2476.66 -34.03 57.85 265.54 86.50 9 48 55 1876.7 -34.14 48.60
 110.00 0 3 7 4364.34 22.83 172.03 251.10 63.84 1 15 51 3764.3 19.13 164.85

DIFFERENTIAL CORRECTIONS

TDE-1.1912 TRA-2.7880 TC3 -.2746 BAU .3262
 RDE -.6144 RRA .3409 RC3 -.0572 FAU .01329
 FDE .8926 FRA 1.5618 FC3 -.1322 BSP 6346
 BDE 1.3403 BRA 2.8088 BC3 .2804 FSP -270

MID-COURSE EXECUTION ACCURACY

SGT 1979.0 SGR 447.7 SG3 100.0
 RRT -.0570 RRF .0637 RTF -.8825
 SGB 2029.0 R23 -.0107 R13 .8826
 SG1 1979.1 SG2 446.9 THA 179.22

ORBIT DETERMINATION ACCURACY

ST 903.5 SR 382.9 SS 789.4
 CRT .6991 CRS .7861 CST .9911
 LSA 1231.6 MSA 262.7 SSA 17.0
 EL1 945.8 EL2 261.5 ALF 17.92

LAUNCH DATE NOV 21 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 258.414

RL 147.77 LAL .00 LOL 58.75 VL 24.979 GAL 14.38 AZL 86.58 MCA 99.96 SMA 113.21 ECC .38615 INC 3.4153 VI 30.151
 RP 107.56 LAP 3.36 LOP 158.72 VP 35.993 GAP -22.54 AZP 90.59 TAL 154.36 TAP 254.31 RCA 69.49 APO 156.93 V2 35.232
 RC 54.021 GL 9.22 GP -2.47 ZAL 43.29 ZAP 8.53 ETS 163.30 ZAE 138.45 ETE 197.04 ZAC 82.39 ETC 165.32 CLP 8.16

PLANETOCENTRIC CONIC

C3 80.884 VML 8.994 DLA 14.89 RAL 11.33 RAD 6569.6 VEL 14.221 PTH 2.59 VHP 14.065 DPA -10.57 RAP 350.27 ECC 2.3311
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 56 3039.97 -27.74 99.33 264.33 84.07 6 58 36 2440.0 -28.27 90.70
 90.00 22 1 57 4720.07 15.98 201.85 253.02 66.31 23 20 37 4120.1 12.65 194.76
 100.00 7 37 20 2751.68 -29.46 78.32 264.52 84.67 8 23 12 2151.7 -29.88 69.54
 100.00 23 15 15 4483.59 17.56 183.73 252.29 65.41 24 29 58 3883.6 14.09 176.65
 110.00 9 3 33 2481.92 -34.00 58.25 264.94 86.26 9 44 55 1881.9 -34.15 49.01
 110.00 0 9 27 4326.12 21.66 169.67 250.18 62.89 1 21 33 3726.1 17.85 162.61

DIFFERENTIAL CORRECTIONS

TDE-1.2004 TRA-2.7875 TC3 -.2788 BAU .3089
 RDE -.5769 RRA .3210 RC3 -.0621 FAU .01375
 FDE .9355 FRA 1.6178 FC3 -.1472 BSP 6611
 BDE 1.3318 BRA 2.8059 BC3 .2856 FSP -294

MID-COURSE EXECUTION ACCURACY

SGT 2052.6 SGR 438.5 SG3 108.0
 RRT -.0576 RRF .0661 RTF -.8896
 SGB 2098.9 R23 -.0125 R13 .8897
 SG1 2052.7 SG2 437.8 THA 179.26

ORBIT DETERMINATION ACCURACY

ST 942.8 SR 373.0 SS 822.0
 CRT .6998 CRS .7875 CST .9909
 LSA 1279.4 MSA 258.2 SSA 17.0
 EL1 981.1 EL2 256.0 ALF 16.64

LAUNCH DATE NOV 21 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 265.195

RL 147.77 LAL .00 LOL 58.75 VL 25.206 GAL 13.80 AZL 86.52 MCA 103.20 SMA 114.32 ECC .37096 INC 3.4760 VI 30.151
 RP 107.58 LAP 3.38 LOP 161.97 VP 36.145 GAP -21.52 AZP 90.79 TAL 153.79 TAP 256.99 RCA 71.91 APO 156.73 V2 35.226
 RC 52.393 GL 9.85 GP -2.64 ZAL 42.90 ZAP 7.33 ETS 159.19 ZAE 139.98 ETE 198.37 ZAC 84.29 ETC 165.56 CLP 6.85

PLANETOCENTRIC CONIC

C3 75.259 VML 8.675 DLA 15.67 RAL 11.56 RAD 6569.5 VEL 14.022 PTH 2.56 VHP 13.493 DPA -9.96 RAP 352.13 ECC 2.2386
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 40 3051.39 -27.66 100.15 263.63 83.67 6 52 31 2451.4 -28.25 91.54
 90.00 22 10 5 4675.44 14.74 199.16 252.18 65.55 23 28 0 4075.4 11.32 192.15
 100.00 7 31 39 2761.20 -29.39 79.02 263.83 84.30 8 17 40 2161.2 -29.87 70.25
 100.00 23 22 47 4440.85 16.33 181.15 251.42 64.61 24 36 48 3840.9 12.78 174.16
 110.00 8 59 6 2487.58 -33.98 58.70 264.29 86.00 9 40 34 1887.6 -34.16 49.45
 110.00 0 15 45 4287.24 20.44 167.32 249.24 61.98 1 27 13 3687.2 16.53 160.38

DIFFERENTIAL CORRECTIONS

TDE-1.2105 TRA-2.7845 TC3 -.2820 BAU .2917
 RDE -.5399 RRA .3022 RC3 -.0672 FAU .01426
 FDE .9823 FRA 1.6772 FC3 -.1641 BSP 6874
 BDE 1.3254 BRA 2.8009 BC3 .2899 FSP -320

MID-COURSE EXECUTION ACCURACY

SGT 2127.7 SGR 428.6 SG3 116.7
 RRT -.0590 RRF .0696 RTF -.8964
 SGB 2170.4 R23 -.0145 R13 .8964
 SG1 2127.8 SG2 427.8 THA 179.29

ORBIT DETERMINATION ACCURACY

ST 983.7 SR 362.0 SS 856.7
 CRT .7007 CRS .7888 CST .9908
 LSA 1329.8 MSA 253.2 SSA 17.0
 EL1 1018.1 EL2 249.6 ALF 15.41

LAUNCH DATE NOV 21 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 271.993

RL 147.77 LAL .00 LOL 58.75 VL 25.420 GAL 13.24 AZL 86.46 HCA 106.44 SMA 115.40 ECC .35645 INC 3.5383 V1 30.151
 RP 107.60 LAP 3.39 LOP 165.22 VP 36.287 GAP -20.54 AZP 91.00 TAL 153.25 TAP 259.69 RCA 74.26 APO 156.53 V2 35.219
 RC 50.852 GL 10.51 GP -2.82 ZAL 42.56 ZAP 6.20 ETS 153.29 ZAE 141.61 ETE 199.88 ZAC 86.19 ETC 165.79 CLP 5.52

PLANETOCENTRIC CONIC

C3 70.096 VHL 8.372 DLA 16.47 RAL 11.75 RAD 6569.4 VEL 13.837 PTH 2.53 VHP 12.938 DPA -9.36 RAP 353.98 ECC 2.1536
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 54 52 3063.77 -27.56 101.05 262.87 83.23 6 45 56 2463.8 -28.21 92.44
 90.00 22 18 20 4629.73 13.44 196.44 251.34 64.84 23 35 29 4029.7 9.94 189.51
 100.00 7 25 30 2771.54 -29.32 79.78 263.09 83.91 8 11 41 2171.5 -29.86 71.01
 100.00 23 30 24 4397.19 15.04 178.55 250.55 63.86 24 43 41 3797.2 11.40 171.65
 110.00 8 54 16 2493.80 -33.95 59.18 263.59 85.72 9 35 49 1893.8 -34.17 49.94
 110.00 0 22 3 4247.69 19.15 164.97 248.30 61.13 1 32 51 3647.7 15.16 158.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2238 TRA-2.7819 TC3 -.2856 BAU .2762 SGT 2207.1 SGR 417.9 SG3 126.3 ST 1027.8 SR 350.0 SS 894.1
 RDE -.5036 RRA .2843 RC3 -.0726 FAU .01479 RRT -.0608 RRF .0742 RTF -.9026 CRT .7018 CRS .7900 CST .9908
 FDE 1.0341 FRA 1.7410 FC3 -.1827 BSP 7061 SGB 2246.3 R23 -.0174 R13 .9026 LSA 1384.5 MSA 247.4 SSA 17.0
 BDE 1.3234 BRA 2.7964 BC3 .2947 FSP -346 SG1 2207.3 SG2 417.1 THA 179.32 EL1 1058.4 EL2 242.1 ALF 14.20

LAUNCH DATE NOV 21 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 278.806

RL 147.77 LAL .00 LOL 58.75 VL 25.619 GAL 12.71 AZL 86.40 HCA 109.68 SMA 116.43 ECC .34261 INC 3.6026 V1 30.151
 RP 107.62 LAP 3.39 LOP 168.46 VP 36.420 GAP -19.58 AZP 91.21 TAL 152.75 TAP 262.43 RCA 76.54 APO 156.32 V2 35.211
 RC 49.405 GL 11.20 GP -3.03 ZAL 42.28 ZAP 5.16 ETS 144.54 ZAE 143.36 ETE 201.60 ZAC 88.08 ETC 166.01 CLP 4.18

PLANETOCENTRIC CONIC

C3 65.361 VHL 8.085 DLA 17.27 RAL 11.88 RAD 6569.2 VEL 13.664 PTH 2.50 VHP 12.399 DPA -8.78 RAP 355.83 ECC 2.0757
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 30 3077.35 -27.45 102.03 262.05 82.75 6 38 47 2477.4 -28.17 93.43
 90.00 22 26 45 4582.84 12.06 193.68 250.49 64.19 23 43 7 3982.8 8.49 186.82
 100.00 7 18 49 2782.89 -29.24 80.61 262.30 83.48 8 5 12 2182.9 -29.83 71.86
 100.00 23 38 7 4352.54 13.68 175.93 249.67 63.16 24 50 40 3752.5 9.97 169.10
 110.00 8 49 0 2500.73 -33.91 59.72 262.83 85.40 9 30 40 1900.7 -34.17 50.48
 110.00 0 28 21 4207.45 17.82 162.62 247.37 60.33 1 38 29 3607.5 13.73 155.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2310 TRA-2.7692 TC3 -.2836 BAU .2570 SGT 2279.4 SGR 406.5 SG3 136.7 ST 1068.4 SR 336.7 SS 932.6
 RDE -.4676 RRA .2677 RC3 -.0781 FAU .01546 RRT -.0662 RRF .0816 RTF -.9088 CRT .7016 CRS .7907 CST .9906
 FDE 1.0891 FRA 1.8071 FC3 -.2048 BSP 7421 SGB 2315.3 R23 -.0195 R13 .9089 LSA 1437.3 MSA 241.6 SSA 16.9
 BDE 1.3169 BRA 2.7821 BC3 .2941 FSP -380 SG1 2279.5 SG2 405.6 THA 179.30 EL1 1095.5 EL2 234.0 ALF 13.08

LAUNCH DATE NOV 21 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 285.629

RL 147.77 LAL .00 LOL 58.75 VL 25.807 GAL 12.21 AZL 86.33 HCA 112.92 SMA 117.42 ECC .32943 INC 3.6696 V1 30.151
 RP 107.65 LAP 3.38 LOP 171.71 VP 36.544 GAP -18.65 AZP 91.43 TAL 152.28 TAP 265.19 RCA 78.74 APO 156.10 V2 35.202
 RC 48.064 GL 11.93 GP -3.26 ZAL 42.06 ZAP 4.31 ETS 131.46 ZAE 145.21 ETE 203.58 ZAC 89.96 ETC 166.23 CLP 2.83

PLANETOCENTRIC CONIC

C3 61.025 VHL 7.812 DLA 18.10 RAL 11.95 RAD 6569.1 VEL 13.505 PTH 2.47 VHP 11.877 DPA -8.23 RAP 357.66 ECC 2.0043
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 39 29 3092.43 -27.31 103.11 261.19 82.22 6 31 1 2492.4 -28.11 94.53
 90.00 22 35 23 4534.63 10.62 190.88 249.66 63.60 23 50 58 3934.6 6.99 184.08
 100.00 7 11 34 2795.50 -29.14 81.53 261.46 83.00 7 58 9 2195.5 -29.80 72.79
 100.00 23 46 0 4306.80 12.26 173.28 248.81 62.52 24 57 47 3706.8 8.48 166.52
 110.00 8 43 16 2508.55 -33.87 60.32 262.04 85.04 9 25 5 1908.6 -34.18 51.09
 110.00 0 34 42 4166.50 16.42 160.26 246.43 59.59 1 44 9 3566.5 12.26 153.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2434 TRA-2.7583 TC3 -.2825 BAU .2404 SGT 2357.2 SGR 394.4 SG3 148.2 ST 1113.4 SR 322.3 SS 974.5
 RDE -.4321 RRA .2525 RC3 -.0839 FAU .01614 RRT -.0729 RRF .0913 RTF -.9145 CRT .7016 CRS .7909 CST .9906
 FDE 1.1509 FRA 1.8788 FC3 -.2290 BSP 7666 SGB 2390.0 R23 -.0228 R13 .9145 LSA 1495.8 MSA 235.1 SSA 16.9
 BDE 1.3164 BRA 2.7698 BC3 .2947 FSP -414 SG1 2357.4 SG2 393.3 THA 179.28 EL1 1137.0 EL2 224.9 ALF 11.96

LAUNCH DATE NOV 21 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 292.459

RL 147.77 LAL .00 LOL 58.75 VL 25.982 GAL 11.72 AZL 86.26 HCA 116.15 SMA 118.37 ECC .31689 INC 3.7399 V1 30.151
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.659 GAP -17.76 AZP 91.65 TAL 151.84 TAP 268.00 RCA 80.86 APO 155.88 V2 35.194
 RC 46.839 GL 12.69 GP -3.52 ZAL 41.90 ZAP 3.81 ETS 113.03 ZAE 147.15 ETE 205.87 ZAC 91.83 ETC 166.45 CLP 1.45

PLANETOCENTRIC CONIC

C3 57.060 VHL 7.554 DLA 18.94 RAL 11.98 RAD 6569.0 VEL 13.357 PTH 2.44 VHP 11.370 DPA -7.71 RAP 359.48 ECC 1.9391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 43 3109.33 -27.15 104.32 260.28 81.64 6 22 33 2509.3 -28.03 95.76
 90.00 22 44 21 4484.93 9.10 188.01 248.83 63.07 23 59 6 3884.9 5.42 181.27
 100.00 7 3 39 2809.65 -29.01 82.57 260.57 82.47 7 50 29 2209.6 -29.75 73.84
 100.00 23 54 6 4259.86 10.77 170.59 247.95 61.95 25 5 6 3659.9 6.93 163.90
 110.00 8 37 3 2517.47 -33.81 61.01 261.21 84.64 9 19 0 1917.5 -34.18 51.79
 110.00 0 41 8 4124.79 14.97 157.90 245.51 58.90 1 49 52 3524.8 10.74 151.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2567 TRA-2.7438 TC3 -.2794 BAU .2239 SGT 2434.7 SGR 381.8 SG3 160.8 ST 1159.5 SR 306.6 SS 1019.3
 RDE -.3970 RRA .2387 RC3 -.0898 FAU .01689 RRT -.0828 RRF .1046 RTF -.9198 CRT .7009 CRS .7903 CST .9907
 FDE 1.2192 FRA 1.9555 FC3 -.2563 BSP 7940 SGB 2464.5 R23 -.0267 R13 .9199 LSA 1557.3 MSA 228.1 SSA 16.8
 BDE 1.3179 BRA 2.7541 BC3 .2935 FSP -452 SG1 2435.0 SG2 380.4 THA 179.24 EL1 1180.0 EL2 214.9 ALF 10.86

LAUNCH DATE NOV 21 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 299.293

RL 147.77 LAL .00 LOL 58.75 VL 26.145 GAL 11.26 AZL 86.19 HCA 119.39 SMA 119.28 ECC .30500 INC 3.8141 V1 30.151
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.766 GAP -16.89 AZP 91.87 TAL 151.45 TAP 270.83 RCA 82.90 APO 155.66 V2 35.184
 RC 45.742 GL 13.49 GP -3.02 ZAL 41.80 ZAP 3.02 ETS 91.55 ZAE 149.15 ETE 208.56 ZAC 93.68 ETC 166.67 CLP .06

PLANETOCENTRIC CONIC

C3 53.440 VHL 7.310 DLA 19.80 RAL 11.95 RAD 6568.9 VEL 13.221 PTH 2.42 VHP 10.879 DPA -7.23 RAP 1.29 ECC 1.8795
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 7 3128.48 -26.96 105.69 259.31 80.98 6 13 15 2528.5 -27.93 97.15
 90.00 22 53 42 4433.49 7.50 185.08 248.03 62.62 24 7 36 3833.5 3.77 178.38
 100.00 6 55 1 2025.67 -28.87 83.74 259.64 81.87 7 42 7 2225.7 -29.69 75.03
 100.00 0 6 25 4211.53 9.21 167.85 247.11 61.44 1 16 36 3611.5 5.32 161.22
 110.00 8 30 16 2527.70 -33.74 61.80 260.34 84.17 9 12 23 1927.7 -34.18 52.59
 110.00 0 47 40 4082.25 13.46 155.53 244.60 58.28 1 55 42 3482.3 9.17 149.06

DIFFERENTIAL CORRECTIONS

TDE-1.2652 TRA-2.7190 TC3 -.2711 BAU .2054
 RDE -.3618 RRA .2269 RC3 -.0960 FAU .01779
 FDE 1.2937 FRA 2.0362 FC3 -.2881 BSP 8311
 BDE 1.3160 BRA 2.7293 BC3 .2876 FSP -496

MID-COURSE EXECUTION ACCURACY

SGT 2504.8 SGR 368.6 SG3 174.6
 RRT -.0989 RRF .1238 RTF -.9250
 SGB 2531.7 R23 -.0304 R13 .9251
 SG1 2505.0 SG2 366.7 THA 179.15

ORBIT DETERMINATION ACCURACY

ST 1202.3 SR 289.2 SS 1066.4
 CRT .6980 CRS .7882 CST .9906
 LSA 1617.8 MSA 221.3 SSA 16.6
 EL1 1219.6 EL2 204.2 ALF 9.81

LAUNCH DATE NOV 21 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 306.129

RL 147.77 LAL .00 LOL 58.75 VL 26.298 GAL 10.82 AZL 86.11 HCA 122.62 SMA 120.15 ECC .29372 INC 3.8931 V1 30.151
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.865 GAP -16.05 AZP 92.10 TAL 151.08 TAP 273.70 RCA 84.86 APO 155.43 V2 35.174
 RC 44.782 GL 14.34 GP -4.16 ZAL 41.76 ZAP 4.38 ETS 72.64 ZAE 151.19 ETE 211.74 ZAC 95.51 ETC 166.89 CLP -1.36

PLANETOCENTRIC CONIC

C3 50.144 VHL 7.081 DLA 20.69 RAL 11.86 RAD 6568.8 VEL 13.096 PTH 2.39 VHP 10.404 DPA -6.79 RAP 3.09 ECC 1.8252
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 31 3150.38 -26.71 107.24 258.31 80.24 6 3 2 2550.4 -27.79 98.74
 90.00 23 3 36 4379.95 5.81 182.05 247.26 62.24 24 16 36 3780.0 2.05 175.39
 100.00 6 45 33 2843.98 -28.68 85.07 258.67 81.20 7 32 57 2244.0 -29.60 76.38
 100.00 0 15 11 4161.60 7.57 165.05 246.30 61.00 1 24 33 3561.6 3.65 158.46
 110.00 6 22 51 2539.54 -33.66 62.72 259.44 83.64 9 5 11 1939.5 -34.17 53.51
 110.00 0 54 22 4038.80 11.89 153.14 243.71 57.71 2 1 41 3438.8 7.54 146.74

DIFFERENTIAL CORRECTIONS

TDE-1.2816 TRA-2.7017 TC3 -.2833 BAU .1894
 RDE -.3288 RRA .2168 RC3 -.1024 FAU .01870
 FDE 1.3781 FRA 2.1243 FC3 -.3229 BSP 8549
 BDE 1.3226 BRA 2.7104 BC3 .2825 FSP -542

MID-COURSE EXECUTION ACCURACY

SGT 2583.5 SGR 355.1 SG3 189.9
 RRT -.1197 RRF .1486 RTF -.9299
 SGB 2607.8 R23 -.0354 R13 .9300
 SG1 2583.9 SG2 352.5 THA 179.04

ORBIT DETERMINATION ACCURACY

ST 1251.7 SR 270.4 SS 1118.2
 CRT .6938 CRS .7843 CST .9907
 LSA 1686.5 MSA 214.0 SSA 16.4
 EL1 1266.0 EL2 192.5 ALF 8.73

LAUNCH DATE NOV 21 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 312.963

RL 147.77 LAL .00 LOL 58.75 VL 26.441 GAL 10.41 AZL 86.02 HCA 125.85 SMA 120.97 ECC .28304 INC 3.9780 V1 30.151
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.957 GAP -15.23 AZP 92.33 TAL 150.75 TAP 276.60 RCA 86.73 APO 155.21 V2 35.164
 RC 43.971 GL 15.23 GP -4.56 ZAL 41.79 ZAP 5.36 ETS 59.14 ZAE 153.22 ETE 215.53 ZAC 97.33 ETC 167.13 CLP -2.82

PLANETOCENTRIC CONIC

C3 47.150 VHL 6.867 DLA 21.61 RAL 11.71 RAD 6568.8 VEL 12.981 PTH 2.37 VHP 9.944 DPA -6.42 RAP 4.88 ECC 1.7760
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 44 3175.74 -26.41 109.04 257.25 79.39 5 51 40 2575.7 -27.60 100.57
 90.00 23 14 12 4323.83 4.03 178.90 246.53 61.95 24 26 16 3723.8 .24 172.26
 100.00 6 35 5 2865.08 -28.45 86.59 257.66 80.42 7 22 50 2265.1 -29.48 77.94
 100.00 0 24 28 4109.72 5.85 162.16 245.52 60.63 1 32 58 3509.7 1.89 155.61
 110.00 8 14 44 2553.27 -33.55 63.78 258.53 83.02 8 57 18 1953.3 -34.15 54.58
 110.00 1 1 18 3994.29 10.26 150.73 242.84 57.21 2 7 52 3394.3 5.87 144.39

DIFFERENTIAL CORRECTIONS

TDE-1.2940 TRA-2.6738 TC3 -.2497 BAU .1717
 RDE -.2914 RRA .2090 RC3 -.1090 FAU .01980
 FDE 1.4708 FRA 2.2173 FC3 -.3636 BSP 8907
 BDE 1.3264 BRA 2.6820 BC3 .2724 FSP -596

MID-COURSE EXECUTION ACCURACY

SGT 2653.6 SGR 341.6 SG3 206.6
 RRT -.1503 RRF .1832 RTF -.9346
 SGB 2675.5 R23 -.0409 R13 .9347
 SG1 2654.1 SG2 337.7 THA 178.87

ORBIT DETERMINATION ACCURACY

ST 1297.7 SR 249.6 SS 1172.6
 CRT .6855 CRS .7771 CST .9907
 LSA 1754.6 MSA 206.9 SSA 16.1
 EL1 1309.2 EL2 180.1 ALF 7.66

LAUNCH DATE NOV 21 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 319.793

RL 147.77 LAL .00 LOL 58.75 VL 26.574 GAL 10.01 AZL 85.93 HCA 129.08 SMA 121.75 ECC .27295 INC 4.0701 V1 30.151
 RP 107.80 LAP 3.16 LOP 187.90 VP 37.042 GAP -14.44 AZP 92.57 TAL 150.46 TAP 279.54 RCA 88.52 APO 154.98 V2 35.153
 RC 43.319 GL 16.18 GP -5.01 ZAL 41.90 ZAP 6.60 ETS 50.27 ZAE 155.18 ETE 220.07 ZAC 99.13 ETC 167.38 CLP -4.30

PLANETOCENTRIC CONIC

C3 44.440 VHL 6.666 DLA 22.55 RAL 11.50 RAD 6568.7 VEL 12.877 PTH 2.35 VHP 9.499 DPA -6.11 RAP 6.66 ECC 1.7314
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 28 3205.49 -26.02 111.13 256.14 78.41 5 38 54 2605.5 -27.35 102.72
 90.00 23 25 47 4264.35 2.12 175.57 245.85 61.76 24 36 51 3664.4 -1.68 168.94
 100.00 6 23 25 2889.65 -28.16 88.36 256.61 79.54 7 11 35 2289.6 -29.32 79.75
 100.00 0 34 27 4055.42 4.03 159.16 244.79 60.36 1 42 2 3455.4 .05 152.63
 110.00 8 5 49 2569.30 -33.41 65.01 257.59 82.31 8 48 38 1969.3 -34.11 55.84
 110.00 1 8 33 3948.53 8.56 148.27 242.01 56.78 2 14 21 3348.5 4.13 141.98

DIFFERENTIAL CORRECTIONS

TDE-1.3077 TRA-2.6425 TC3 -.2332 BAU .1547
 RDE -.2553 RRA .2038 RC3 -.1159 FAU .02101
 FDE 1.5751 FRA 2.3170 FC3 -.4093 BSP 9261
 BDE 1.3323 BRA 2.6504 BC3 .2604 FSP -657

MID-COURSE EXECUTION ACCURACY

SGT 2721.7 SGR 328.7 SG3 225.0
 RRT -.1921 RRF .2295 RTF -.9390
 SGB 2741.5 R23 -.0474 R13 .9391
 SG1 2722.5 SG2 322.5 THA 178.65

ORBIT DETERMINATION ACCURACY

ST 1344.5 SR 226.7 SS 1231.5
 CRT .6714 CRS .7647 CST .9907
 LSA 1826.3 MSA 199.8 SSA 15.7
 EL1 1353.2 EL2 166.9 ALF 6.56

LAUNCH DATE NOV 21 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 326.617

RL 147.77 LAL .00 LOL 58.75 VL 26.697 GAL 9.63 AZL 85.83 HCA 132.30 SMA 122.49 ECC .26343 INC 4.1709 V1 30.151
 RP 107.84 LAP 3.08 LOP 191.13 VP 37.120 GAP -13.67 AZP 92.81 TAL 150.20 TAP 282.51 RCA 90.22 APO 154.76 V2 35.141
 RC 42.834 GL 17.18 GP -5.54 ZAL 42.07 ZAP 8.03 ETS 44.52 ZAE 156.99 ETE 225.48 ZAC 100.90 ETC 167.65 CLP -5.83

PLANETOCENTRIC CONIC

C3 41.998 VHL 6.481 DLA 23.54 RAL 11.22 RAD 6568.6 VEL 12.781 PTH 2.33 VHP 9.070 DPA -5.89 RAP 8.43 ECC 1.6912
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 19 3241.01 -25.51 113.60 254.97 77.27 5 24 20 2641.0 -27.01 105.26
 90.00 23 38 44 4200.36 .05 172.00 245.26 61.68 24 48 44 3600.4 -3.74 165.37
 100.00 6 10 18 2918.61 -27.79 90.43 255.51 78.51 6 58 57 2318.6 -29.09 81.87
 100.00 0 45 21 3997.99 2.09 156.00 244.13 60.17 1 51 59 3398.0 -1.90 149.48
 110.00 7 55 57 2588.12 -33.23 66.45 256.63 81.47 8 39 5 1988.1 -34.05 57.30
 110.00 1 16 12 3901.25 6.79 145.76 241.22 56.42 2 21 14 3301.3 2.33 139.51

DIFFERENTIAL CORRECTIONS

TDE -1.3255 TRA -2.6100 TC3 -.2159 BAU .1396
 RDE -.2181 RRA .2016 RC3 -.1233 FAU .02230
 FDE 1.6937 FRA 2.4252 FC3 -.4597 BSP 9567
 BDE 1.3433 BRA 2.6178 BC3 .2486 FSP -722

MID-COURSE EXECUTION ACCURACY

SGT 2790.5 SGR 317.0 SG3 245.4
 RRT -.2473 RRF .2901 RTF -.9431
 SGB 2808.4 R23 -.0558 R13 .9433
 SGI 2791.6 SG2 307.1 THA 178.37

ORBIT DETERMINATION ACCURACY

ST 1394.1 SR 201.5 SS 1296.0
 CRT .6477 CRS .7433 CST .9909
 LSA 1904.3 MSA 192.8 SSA 15.3
 EL1 1400.3 EL2 152.8 ALF 5.41

LAUNCH DATE NOV 21 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 333.420

RL 147.77 LAL .00 LOL 58.75 VL 26.812 GAL 9.27 AZL 85.72 HCA 135.53 SMA 123.19 ECC .25442 INC 4.2826 V1 30.151
 RP 107.87 LAP 3.00 LOP 194.36 VP 37.192 GAP -12.93 AZP 93.06 TAL 149.99 TAP 285.52 RCA 91.85 APO 154.53 V2 35.129
 RC 42.524 GL 18.26 GP -6.16 ZAL 42.34 ZAP 9.62 ETS 40.78 ZAE 158.55 ETE 231.86 ZAC 102.64 ETC 167.96 CLP -7.40

PLANETOCENTRIC CONIC

C3 39.792 VHL 6.308 DLA 24.57 RAL 10.87 RAD 6568.5 VEL 12.695 PTH 2.31 VHP 8.654 DPA -5.77 RAP 10.20 ECC 1.6549
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 12 31 3284.46 -24.82 116.60 253.68 75.91 5 7 15 2684.5 -26.52 108.34
 90.00 23 53 40 4129.67 -2.23 168.06 244.77 61.76 25 2 29 3529.7 -5.99 161.39
 100.00 5 55 15 2953.23 -27.29 92.89 254.34 77.31 6 44 28 2353.2 -28.77 84.39
 100.00 0 57 33 3936.13 -.01 152.60 243.53 60.11 2 3 9 3336.1 -3.99 146.07
 110.00 7 44 53 2810.25 -32.99 68.13 255.63 80.50 8 28 23 2010.3 -33.95 59.02
 110.00 1 24 24 3851.87 4.92 143.15 240.46 56.13 2 28 36 3251.9 .44 136.93

DIFFERENTIAL CORRECTIONS

TDE -1.1819 TRA -2.4100 TC3 -.0317 BAU .0711
 RDE -.1779 RRA .2040 RC3 -.1299 FAU .02746
 FDE 1.7452 FRA 2.4561 FC3 -.5975 BSP 13777
 BDE 1.1952 BRA 2.4186 BC3 .1337 FSP -962

MID-COURSE EXECUTION ACCURACY

SGT 2635.7 SGR 307.3 SG3 260.6
 RRT -.3831 RRF .3961 RTF -.9529
 SGB 2653.6 R23 -.0289 R13 .9530
 SGI 2638.4 SG2 283.6 THA 177.41

ORBIT DETERMINATION ACCURACY

ST 1293.8 SR 172.8 SS 1306.8
 CRT .5784 CRS .6986 CST .9875
 LSA 1836.5 MSA 196.1 SSA 12.7
 EL1 1297.7 EL2 140.5 ALF 4.47

LAUNCH DATE NOV 21 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 340.243

RL 147.77 LAL .00 LOL 58.75 VL 26.919 GAL 8.94 AZL 85.59 HCA 138.75 SMA 123.85 ECC .24605 INC 4.4078 V1 30.151
 RP 107.91 LAP 2.90 LOP 197.59 VP 37.257 GAP -12.21 AZP 93.32 TAL 149.78 TAP 288.53 RCA 93.38 APO 154.32 V2 35.117
 RC 42.392 GL 19.39 GP -6.90 ZAL 42.66 ZAP 11.33 ETS 38.42 ZAE 159.77 ETE 239.22 ZAC 104.36 ETC 168.32 CLP -9.01

PLANETOCENTRIC CONIC

C3 37.878 VHL 6.155 DLA 25.65 RAL 10.45 RAD 6568.5 VEL 12.619 PTH 2.29 VHP 8.258 DPA -5.77 RAP 11.97 ECC 1.6234
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 51 1 3340.09 -23.85 120.39 252.31 74.26 4 46 41 2740.1 -25.78 112.25
 90.00 0 15 49 4049.13 -4.81 163.55 244.49 62.06 1 23 18 3449.1 -8.52 156.82
 100.00 5 37 47 2995.90 -26.62 95.88 253.13 75.87 6 27 43 2395.9 -28.30 87.48
 100.00 1 11 44 3868.55 -2.30 148.89 243.10 60.19 2 16 13 3268.6 -6.25 142.34
 110.00 7 32 32 2636.88 -32.68 70.14 254.66 79.35 8 16 29 2036.9 -33.80 61.09
 110.00 1 33 29 3800.34 2.96 140.45 239.82 55.93 2 36 49 3200.3 -1.53 134.25

DIFFERENTIAL CORRECTIONS

TDE -1.4097 TRA -2.5768 TC3 -.2179 BAU .1311
 RDE -.1374 RRA .2085 RC3 -.1398 FAU .02422
 FDE 2.0054 FRA 2.6897 FC3 -.5537 BSP 9148
 BDE 1.4163 BRA 2.5853 BC3 .2589 FSP -829

MID-COURSE EXECUTION ACCURACY

SGT 2979.3 SGR 303.8 SG3 295.1
 RRT -.3966 RRF .4592 RTF -.9493
 SGB 2994.7 R23 -.0865 R13 .9496
 SGI 2981.7 SG2 278.7 THA 177.66

ORBIT DETERMINATION ACCURACY

ST 1536.1 SR 143.4 SS 1458.7
 CRT .5281 CRS .6305 CST .9919
 LSA 2115.7 MSA 177.9 SSA 14.6
 EL1 1538.0 EL2 121.6 ALF 2.84

LAUNCH DATE NOV 21 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 347.036

RL 147.77 LAL .00 LOL 58.75 VL 27.018 GAL 8.62 AZL 85.45 HCA 141.97 SMA 124.47 ECC .23815 INC 4.5501 V1 30.151
 RP 107.95 LAP 2.80 LOP 200.81 VP 37.317 GAP -11.51 AZP 93.59 TAL 149.62 TAP 291.59 RCA 94.83 APO 154.11 V2 35.105
 RC 42.442 GL 20.63 GP -7.78 ZAL 43.09 ZAP 13.19 ETS 37.02 ZAE 160.52 ETE 247.35 ZAC 106.06 ETC 168.75 CLP -10.69

PLANETOCENTRIC CONIC

C3 36.179 VHL 6.015 DLA 26.80 RAL 9.94 RAD 6568.4 VEL 12.552 PTH 2.27 VHP 7.875 DPA -5.93 RAP 13.74 ECC 1.5954
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 40 3416.99 -22.33 125.51 250.66 72.12 4 19 37 2817.0 -24.57 117.56
 90.00 0 40 5 3949.04 -7.97 157.89 244.49 62.74 1 45 54 3349.0 -11.57 151.05
 100.00 5 16 29 3050.10 -25.66 99.62 251.76 74.12 6 7 19 2450.1 -27.59 91.35
 100.00 1 28 57 3791.16 -4.91 144.63 242.83 60.48 2 32 8 3191.2 -8.81 138.01
 110.00 7 18 19 2668.88 -32.25 72.54 253.63 77.99 8 2 48 2068.9 -33.56 63.56
 110.00 1 43 37 3745.14 .85 137.57 239.25 55.83 2 46 2 3145.1 -3.63 131.36

DIFFERENTIAL CORRECTIONS

TDE -1.4334 TRA -2.5318 TC3 -.1934 BAU .1181
 RDE -.0913 RRA .2194 RC3 -.1490 FAU .02587
 FDE 2.1828 FRA 2.8235 FC3 -.6189 BSP 9469
 BDE 1.4363 BRA 2.5413 BC3 .2442 FSP -916

MID-COURSE EXECUTION ACCURACY

SGT 3038.2 SGR 307.4 SG3 322.8
 RRT -.5057 RRF .5729 RTF -.9527
 SGB 3051.8 R23 -.1013 R13 .9532
 SGI 3040.2 SG2 264.9 THA 177.05

ORBIT DETERMINATION ACCURACY

ST 1587.9 SR 111.9 SS 1542.8
 CRT .3482 CRS .4621 CST .9920
 LSA 2210.0 MSA 172.7 SSA 13.8
 EL1 1588.3 EL2 104.9 ALF 1.41

LAUNCH DATE NOV 21 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 353.816

RL 147.77 LAL .00 LOL 58.75 VL 27.110 GAL 8.32 AZL 85.29 HCA 145.19 SMA 125.05 ECC .23075 INC 4.7142 VI 30.151
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.372 GAP -10.83 AZP 93.87 TAL 149.49 TAP 294.68 RCA 36.20 APO 153.91 V2 35.092
 RC 42.671 GL 21.97 GP -8.84 ZAL 43.62 ZAP 15.21 ETS 36.37 ZAE 160.70 ETE 255.80 ZAC 107.72 ETC 169.27 CLP -12.43

PLANETOCENTRIC CONIC

C3 34.722 VHL 5.892 CLA 28.03 RAL 9.33 RAD 6568.4 VEL 12.434 PTH 2.26 VHP 7.510 DPA -6.29 RAP 15.52 ECC 1.5714
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 34 3556.90 -19.13 134.52 248.19 68.72 3 33 51 2956.9 -21.85 126.91
 90.00 1 23 18 3788.35 -12.84 148.60 245.37 64.55 2 26 27 3188.4 -16.17 141.50
 100.00 4 48 47 3124.24 -24.19 104.63 250.14 71.88 5 40 51 2524.2 -26.44 96.56
 100.00 1 51 47 3696.25 -8.07 139.35 242.88 61.12 2 53 23 3096.3 -11.86 132.62
 110.00 7 1 41 2708.25 -31.65 75.46 252.54 76.36 7 46 50 2108.3 -33.20 66.57
 110.00 1 55 22 3685.00 -1.45 134.43 238.81 55.84 2 56 47 3085.0 -5.92 128.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4605 TRA -2.4817 TC3 -.1660 BAU .1068 SGT 3086.7 SGR 323.7 SG3 353.1 ST 1639.9 SR 87.3 SS 1634.6
 RDE -.0394 RRA .2367 RC3 -.1595 FAU .02766 RRT -.6221 RRF .6917 RTF -.9560 CRT -.0681 CRS .0551 CST .9922
 FDE 2.3868 FRA 2.9638 FC3 -.6897 BSP 9806 SGB 3103.6 R23 -.1187 R13 .9567 LSA 2310.9 MSA 168.5 SSA 12.8
 BDE 1.4610 BRA 2.4929 BC3 .2302 FSP -1013 SG1 3093.3 SG2 252.9 THA 176.24 EL1 1639.9 EL2 87.1 ALF 179.79

LAUNCH DATE NOV 21 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 360.581

RL 147.77 LAL .00 LOL 58.75 VL 27.195 GAL 8.04 AZL 85.09 HCA 148.40 SMA 125.60 ECC .22384 INC 4.9071 VI 30.151
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.421 GAP -10.17 AZP 94.18 TAL 149.39 TAP 297.79 RCA 37.48 APO 153.71 V2 35.080
 RC 43.078 GL 23.45 GP -10.15 ZAL 44.27 ZAP 17.42 ETS 36.35 ZAE 160.26 ETE 263.97 ZAC 109.35 ETC 169.92 CLP -14.23

PLANETOCENTRIC CONIC

C3 33.514 VHL 5.789 CLA 29.36 RAL 8.60 RAD 6568.3 VEL 12.445 PTH 2.25 VHP 7.164 DPA -6.90 RAP 17.34 ECC 1.5516
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.92 0 49 40 3878.15 -16.93 157.14 245.85 65.66 1 54 18 3278.1 -20.08 149.80
 98.08 3 2 24 3449.25 -16.92 125.65 245.85 65.65 3 59 53 2849.2 -20.06 118.31
 100.00 4 4 57 3248.88 -21.31 112.77 247.81 68.52 4 59 6 2648.9 -24.03 105.04
 100.00 2 29 48 3553.75 -12.64 131.25 243.71 62.69 3 29 2 2953.7 -16.20 124.27
 110.00 6 41 37 2758.10 -30.79 79.09 251.35 74.37 7 27 35 2158.1 -32.63 70.35
 110.00 2 9 37 3617.29 -4.03 130.89 238.56 56.03 3 9 54 3017.3 -8.46 124.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4925 TRA -2.4269 TC3 -.1367 BAU .0983 SGT 3130.7 SGR 358.3 SG3 386.2 ST 1692.8 SR 91.8 SS 1735.2
 RDE .0212 RRA .2619 RC3 -.1717 FAU .02958 RRT -.7302 RRF .7993 RTF -.9591 CRT -.6739 CRS -.5794 CST .9924
 FDE 2.6226 FRA 3.1087 FC3 -.7640 BSP 10135 SGB 3151.1 R23 -.1386 R13 .9600 LSA 2420.2 MSA 165.4 SSA 11.6
 BDE 1.4926 BRA 2.4410 BC3 .2195 FSP -1121 SG1 3141.7 SG2 244.0 THA 175.19 EL1 1693.9 EL2 67.8 ALF 177.90

LAUNCH DATE NOV 21 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 367.330

RL 147.77 LAL .00 LOL 58.75 VL 27.273 GAL 7.77 AZL 84.86 HCA 151.61 SMA 126.10 ECC .21741 INC 5.1385 VI 30.151
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.466 GAP -9.52 AZP 94.52 TAL 149.31 TAP 300.93 RCA 38.69 APO 153.52 V2 35.067
 RC 43.658 GL 25.09 GP -11.77 ZAL 45.06 ZAP 19.86 ETS 36.88 ZAE 159.18 ETE 271.23 ZAC 110.95 ETC 170.75 CLP 16.11

PLANETOCENTRIC CONIC

C3 32.579 VHL 5.708 CLA 30.81 RAL 7.73 RAD 6568.3 VEL 12.408 PTH 2.24 VHP 6.839 DPA -7.84 RAP 19.22 ECC 1.5362
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.31 0 11 19 3982.16 -17.93 165.37 244.90 64.51 1 17 41 3382.2 -21.21 158.04
 102.69 3 33 47 3330.96 -17.91 117.33 244.90 64.50 4 29 18 2731.0 -21.20 110.00
 77.31 0 11 19 3982.16 -17.93 165.37 244.90 64.51 1 17 41 3382.2 -21.21 158.04
 102.69 3 33 47 3330.96 -17.91 117.33 244.90 64.50 4 29 18 2731.0 -21.20 110.00
 110.00 6 16 6 2824.36 -29.48 83.80 249.94 71.86 7 3 10 2224.4 -31.67 75.28
 110.00 2 28 10 3536.76 -7.08 126.65 238.63 56.47 3 27 7 2936.8 -11.44 120.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.5338 TRA -2.3695 TC3 -.1095 BAU .0940 SGT 3171.2 SGR 418.1 SG3 422.0 ST 1749.5 SR 141.2 SS 1846.9
 RDE .0947 RRA .2972 RC3 -.1861 FAU .03150 RRT -.8159 RRF .8820 RTF -.9619 CRT -.9429 CRS -.8967 CST .9926
 FDE 2.8986 FRA 3.2557 FC3 -.8370 BSP 10402 SGB 3198.6 R23 -.1603 R13 .9632 LSA 2542.6 MSA 163.5 SSA 10.3
 BDE 1.5367 BRA 2.3880 BC3 .2159 FSP -1235 SG1 3189.6 SG2 240.4 THA 173.82 EL1 1754.6 EL2 46.9 ALF 175.64

LAUNCH DATE NOV 21 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 374.061

RL 147.77 LAL .00 LOL 58.75 VL 27.345 GAL 7.52 AZL 84.58 HCA 154.82 SMA 126.58 ECC .21143 INC 5.4234 VI 30.151
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.506 GAP -8.90 AZP 94.91 TAL 149.26 TAP 304.08 RCA 39.81 APO 153.34 V2 35.053
 RC 44.405 GL 26.95 GP -13.83 ZAL 46.04 ZAP 22.61 ETS 37.97 ZAE 157.43 ETE 277.15 ZAC 112.53 ETC 171.83 CLP -18.06

PLANETOCENTRIC CONIC

C3 31.958 VHL 5.653 CLA 32.45 RAL 6.67 RAD 6568.3 VEL 12.383 PTH 2.24 VHP 6.540 DPA -9.20 RAP 21.22 ECC 1.5259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.46 23 36 35 4060.65 -18.96 171.85 243.99 63.16 24 44 16 3460.6 -22.40 164.55
 106.54 3 56 7 3242.79 -18.94 111.18 243.98 63.15 4 50 10 2642.8 -22.39 103.88
 73.46 23 36 35 4060.65 -18.96 171.85 243.99 63.16 24 44 16 3460.6 -22.40 164.55
 106.54 3 56 7 3242.79 -18.94 111.18 243.98 63.15 4 50 10 2642.8 -22.39 103.88
 110.00 5 40 3 2922.06 -27.22 90.51 248.02 68.48 6 28 45 2322.1 -29.90 82.33
 110.00 2 55 45 3429.37 -11.07 120.89 239.34 57.45 3 52 54 2829.4 -15.28 114.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.5887 TRA -2.3099 TC3 -.0868 BAU .0944 SGT 3209.1 SGR 511.2 SG3 460.1 ST 1812.6 SR 227.6 SS 1971.5
 RDE .1879 RRA .3456 RC3 -.2032 FAU .03325 RRT -.8751 RRF .9366 RTF -.9643 CRT -.9943 CRS -.9755 CST .9929
 FDE 3.2236 FRA 3.3977 FC3 -.9006 BSP 10588 SGB 3249.6 R23 -.1813 R13 .9663 LSA 2682.8 MSA 162.9 SSA 9.0
 BDE 1.5998 BRA 2.3356 BC3 .2210 FSP -1352 SG1 3240.4 SG2 245.1 THA 172.02 EL1 1826.7 EL2 24.1 ALF 172.88

LAUNCH DATE NOV 21 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 380.774

RL 147.77 LAL .00 LOL 58.75 VL 27.411 GAL 7.29 AZL 84.21 HCA 158.03 SMA 127.01 ECC .20589 INC 5.7850 V1 30.151
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.542 GAP -8.29 AZP 95.37 TAL 149.23 TAP 307.25 RCA 100.86 APO 153.17 V2 35.040
 RC 45.309 GL 29.11 GP -16.50 ZAL 47.25 ZAP 25.79 ETS 39.64 ZAE 154.95 ETE 281.54 ZAC 114.08 ETC 173.29 CLP -20.10

PLANETOCENTRIC CONIC

C3 31.732 VHL 5.633 CLA 34.31 RAL 5.35 RAD 6568.3 VEL 12.374 PTH 2.23 VHP 6.275 DPA -11.16 RAP 23.39 ECC 1.5222
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.76 23 8 12 4129.99 -20.01 177.80 243.11 61.53 24 17 2 3530.0 -23.66 170.54
 110.24 4 13 59 3169.88 -20.00 106.13 243.10 61.52 5 6 48 2569.9 -23.64 98.88
 69.76 23 8 12 4129.99 -20.01 177.80 243.11 61.53 24 17 2 3530.0 -23.66 170.54
 110.24 4 13 59 3169.88 -20.00 106.13 243.10 61.52 5 6 48 2569.9 -23.64 98.88
 69.76 23 8 12 4129.99 -20.01 177.80 243.11 61.53 24 17 2 3530.0 -23.66 170.54
 110.24 4 13 59 3169.88 -20.00 106.13 243.10 61.52 5 6 48 2569.9 -23.64 98.88

DIFFERENTIAL CORRECTIONS

TDE -1.6594 TRA -2.2441 TC3 -.0661 BAU .0989
 RDE .3115 RRA .4108 RC3 -.2235 FAU .03473
 FDE 3.6021 FRA 3.5156 FC3 -.9476 BSP 10781
 BDE 1.6884 BRA 2.2814 BC3 .2331 FSP -1471

MID-COURSE EXECUTION ACCURACY

SGT 3238.9 SGR 647.8 SG3 498.6
 RRT -.9121 RRF .9682 RTF -.9666
 SGB 3303.1 R23 -.1969 R13 .9696
 SG1 3292.7 SG2 261.2 THA 169.59

ORBIT DETERMINATION ACCURACY

ST 1880.4 SR 351.4 SS 2107.5
 CRT -.9997 CRS -.9943 CST .9932
 LSA 2841.5 MSA 164.1 SSA 7.6
 EL1 1913.0 EL2 8.5 ALF 169.42

LAUNCH DATE NOV 21 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 387.466

RL 147.77 LAL .00 LOL 58.75 VL 27.471 GAL 7.08 AZL 83.74 HCA 161.23 SMA 127.42 ECC .20078 INC 6.2628 V1 30.151
 RP 108.19 LAP 2.01 LOP 220.08 VP 37.574 GAP -7.70 AZP 95.93 TAL 149.21 TAP 310.44 RCA 101.84 APO 153.00 V2 35.027
 RC 46.364 GL 31.69 GP -20.04 ZAL 48.80 ZAP 29.56 ETS 41.95 ZAE 151.58 ETE 284.43 ZAC 115.59 ETC 175.30 CLP -22.20

PLANETOCENTRIC CONIC

C3 32.058 VHL 5.662 CLA 36.50 RAL 3.66 RAD 6568.3 VEL 12.387 PTH 2.24 VHP 6.061 DPA -13.94 RAP 25.89 ECC 1.5276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.95 22 39 54 4197.28 -21.08 183.78 242.28 59.49 23 49 52 3597.3 -24.97 176.60
 114.05 4 28 47 3107.72 -21.06 101.85 242.27 59.48 5 20 35 2507.7 -24.95 94.67
 65.95 22 39 54 4197.28 -21.08 183.78 242.28 59.49 23 49 52 3597.3 -24.97 176.60
 114.05 4 28 47 3107.72 -21.06 101.85 242.27 59.48 5 20 35 2507.7 -24.95 94.67
 65.95 22 39 54 4197.28 -21.08 183.78 242.28 59.49 23 49 52 3597.3 -24.97 176.60
 114.05 4 28 47 3107.72 -21.06 101.85 242.27 59.48 5 20 35 2507.7 -24.95 94.67

DIFFERENTIAL CORRECTIONS

TDE -1.7571 TRA -2.1719 TC3 -.0502 BAU .1078
 RDE .4849 RRA .4975 RC3 -.2466 FAU .03552
 FDE 4.0389 FRA 3.5801 FC3 -.9592 BSP 10983
 BDE 1.8228 BRA 2.2282 BC3 .2516 FSP -1580

MID-COURSE EXECUTION ACCURACY

SGT 3261.9 SGR 843.2 SG3 534.0
 RRT -.9340 RRF .9847 RTF -.9687
 SGB 3369.1 R23 -.2032 R13 .9732
 SG1 3356.4 SG2 292.7 THA 166.32

ORBIT DETERMINATION ACCURACY

ST 1958.2 SR 525.5 SS 2254.3
 CRT -.9976 CRS -.9989 CST .9936
 LSA 3027.3 MSA 167.0 SSA 6.1
 EL1 2027.2 EL2 34.8 ALF 165.01

LAUNCH DATE NOV 21 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 394.137

RL 147.77 LAL .00 LOL 58.75 VL 27.526 GAL 6.88 AZL 83.07 HCA 164.43 SMA 127.79 ECC .19609 INC 6.9282 V1 30.151
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.602 GAP -7.12 AZP 96.68 TAL 149.21 TAP 313.64 RCA 102.73 APO 152.85 V2 35.013
 RC 47.558 GL 34.86 GP -24.88 ZAL 50.83 ZAP 34.24 ETS 45.01 ZAE 146.97 ETE 286.00 ZAC 117.02 ETC 178.19 CLP -24.32

PLANETOCENTRIC CONIC

C3 33.258 VHL 5.767 CLA 39.14 RAL 1.38 RAD 6568.3 VEL 12.435 PTH 2.25 VHP 5.929 DPA -17.91 RAP 28.95 ECC 1.5473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.77 22 9 46 4267.85 -22.09 190.24 241.48 56.84 23 20 53 3667.9 -26.29 183.19
 118.23 4 40 46 3055.68 -22.08 98.26 241.47 56.83 5 31 41 2455.7 -26.28 91.21
 61.77 22 9 46 4267.85 -22.09 190.24 241.48 56.84 23 20 53 3667.9 -26.29 183.19
 118.23 4 40 46 3055.68 -22.08 98.26 241.47 56.83 5 31 41 2455.7 -26.28 91.21
 61.77 22 9 46 4267.85 -22.09 190.24 241.48 56.84 23 20 53 3667.9 -26.29 183.19
 118.23 4 40 46 3055.68 -22.08 98.26 241.47 56.83 5 31 41 2455.7 -26.28 91.21

DIFFERENTIAL CORRECTIONS

TDE -1.9014 TRA -2.0918 TC3 -.0400 BAU .1214
 RDE .7429 RRA .6096 RC3 -.2701 FAU .03496
 FDE 4.5201 FRA 3.5330 FC3 -.9101 BSP 11271
 BDE 2.0414 BRA 2.1788 BC3 .2731 FSP -1661

MID-COURSE EXECUTION ACCURACY

SGT 3278.7 SGR 1118.7 SG3 558.2
 RRT -.9466 RRF .9926 RTF -.9705
 SGB 3464.3 R23 -.1977 R13 .9775
 SG1 3447.2 SG2 343.1 THA 161.92

ORBIT DETERMINATION ACCURACY

ST 2053.0 SR 774.4 SS 2403.3
 CRT -.9954 CRS -.9999 CST .9941
 LSA 3249.8 MSA 171.8 SSA 4.7
 EL1 2193.1 EL2 69.4 ALF 159.40

LAUNCH DATE NOV 21 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 400.784

RL 147.77 LAL .00 LOL 58.75 VL 27.577 GAL 6.70 AZL 82.07 HCA 167.62 SMA 128.14 ECC .19179 INC 7.9262 V1 30.151
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.626 GAP -6.57 AZP 97.74 TAL 149.22 TAP 316.84 RCA 103.56 APO 152.71 V2 35.000
 RC 48.883 GL 38.95 GP -31.71 ZAL 53.63 ZAP 40.34 ETS 48.97 ZAE 140.46 ETE 286.68 ZAC 118.27 ETC 182.53 CLP -26.36

PLANETOCENTRIC CONIC

C3 36.089 VHL 6.007 CLA 42.43 RAL 358.10 RAD 6568.4 VEL 12.548 PTH 2.27 VHP 5.954 DPA -23.62 RAP 33.10 ECC 1.5939
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.98 21 35 21 4347.96 -22.87 197.69 240.64 53.23 22 47 49 3748.0 -27.49 190.89
 123.02 4 48 59 3016.81 -22.85 95.52 240.63 53.23 5 39 16 2416.8 -27.47 88.72
 56.98 21 35 21 4347.96 -22.87 197.69 240.64 53.23 22 47 49 3748.0 -27.49 190.89
 123.02 4 48 59 3016.81 -22.85 95.52 240.63 53.23 5 39 16 2416.8 -27.47 88.72
 56.98 21 35 21 4347.96 -22.87 197.69 240.64 53.23 22 47 49 3748.0 -27.49 190.89
 123.02 4 48 59 3016.81 -22.85 95.52 240.63 53.23 5 39 16 2416.8 -27.47 88.72

DIFFERENTIAL CORRECTIONS

TDE -2.1420 TRA -2.0035 TC3 -.0394 BAU .1388
 RDE 1.1545 RRA .7443 RC3 -.2851 FAU .03165
 FDE 4.9899 FRA 3.2744 FC3 -.7592 BSP 11726
 BDE 2.4333 BRA 2.1373 BC3 .2878 FSP -1666

MID-COURSE EXECUTION ACCURACY

SGT 3298.1 SGR 1501.6 SG3 555.8
 RRT -.9537 RRF .9961 RTF -.9725
 SGB 3623.8 R23 -.1788 R13 .9828
 SG1 3600.1 SG2 413.7 THA 156.20

ORBIT DETERMINATION ACCURACY

ST 2185.6 SR 1138.3 SS 2533.9
 CRT -.9942 CRS -1.0000 CST .9947
 LSA 3530.1 MSA 177.9 SSA 3.3
 EL1 2461.9 EL2 108.4 ALF 152.57

LAUNCH DATE NOV 21 1968

FLIGHT TIME 158.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 407.403

RL 147.77 LAL .00 LOL 58.75 VL 27.623 GAL 6.54 AZL 80.40 MCA 170.80 SMA 128.45 ECC .18789 INC 9.6017 V1 30.151
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.648 GAP -6.02 AZP 99.48 TAL 149.23 TAP 320.04 RCA 104.31 APO 152.58 V2 34.987
 RC 50.327 GL 44.48 GP -41.61 ZAL 57.72 ZAP 48.65 ETS 54.16 ZAE 130.95 ETE 287.36 ZAC 118.99 ETC 189.43 CLP -27.91

PLANETOCENTRIC CONIC

C3 42.681 VHL 6.533 CLA 46.62 RAL 352.89 RAD 6568.6 VEL 12.808 PTH 2.33 VHP 6.333 DPA -31.83 RAP 39.53 ECC 1.7024
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.27 20 52 33 4448.22 -22.84 206.81 239.45 48.18 22 6 41 3848.2 -28.03 200.48
 128.73 4 50 14 3001.29 -22.83 94.08 239.44 48.17 5 40 15 2401.3 -28.02 87.76
 51.27 20 52 33 4448.22 -22.84 206.81 239.45 48.18 22 6 41 3848.2 -28.03 200.48
 128.73 4 50 14 3001.29 -22.83 94.08 239.44 48.17 5 40 15 2401.3 -28.02 87.76
 51.27 20 52 33 4448.22 -22.84 206.81 239.45 48.18 22 6 41 3848.2 -28.03 200.48
 128.73 4 50 14 3001.29 -22.83 94.08 239.44 48.17 5 40 15 2401.3 -28.02 87.76

DIFFERENTIAL CORRECTIONS

TDE-2.6181 TRA-1.9099 TC3 -.0545 BAU .1549
 ROE 1.8612 RRA .8675 RC3 -.2659 FAU .02326
 FDE 5.2682 FRA 2.6558 FC3 -.4718 BSP 12485
 BDE 3.2122 BRA 2.0977 BC3 .2714 FSP -1509

MID-COURSE EXECUTION ACCURACY

SGT 3350.4 SGR 2003.1 SG3 498.0
 RRT -.9574 RRF .9971 RTF -.9753
 SGB 3903.5 R23 -.1451 R13 .9891
 SG1 3871.2 SG2 500.9 THA 149.65

ORBIT DETERMINATION ACCURACY

ST 2409.8 SR 1665.8 SS 2588.7
 CRT -.9942 CRS -.9999 CST .9958
 LSA 3905.1 MSA 184.5 SSA 2.0
 EL1 2925.8 EL2 147.7 ALF 145.40

LAUNCH DATE NOV 21 1968

FLIGHT TIME 160.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 413.982

RL 147.77 LAL .00 LOL 58.75 VL 27.664 GAL 6.39 AZL 76.98 MCA 173.97 SMA 128.73 ECC .18439 INC13.0208 V1 30.151
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.666 GAP -5.50 AZP 102.95 TAL 149.24 TAP 323.21 RCA 105.00 APO 152.47 V2 34.974
 RC 51.881 GL 52.22 GP -56.04 ZAL 64.09 ZAP 60.19 ETS 62.42 ZAE 116.79 ETE 291.01 ZAC 118.49 ETC 201.91 CLP -27.13

PLANETOCENTRIC CONIC

C3 61.411 VHL 7.837 CLA 51.74 RAL 343.49 RAD 6569.1 VEL 13.519 PTH 2.47 VHP 7.725 DPA -43.00 RAP 51.54 ECC 2.0107
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.70 19 53 16 4591.02 -20.23 218.23 236.60 41.30 21 9 47 3991.0 -26.14 212.77
 135.30 4 34 29 3039.10 -20.22 95.02 236.59 41.29 5 25 8 2439.1 -26.13 89.57
 44.70 19 53 16 4591.02 -20.23 218.23 236.60 41.30 21 9 47 3991.0 -26.14 212.77
 135.30 4 34 29 3039.10 -20.22 95.02 236.59 41.29 5 25 8 2439.1 -26.13 89.57
 44.70 19 53 16 4591.02 -20.23 218.23 236.60 41.30 21 9 47 3991.0 -26.14 212.77
 135.30 4 34 29 3039.10 -20.22 95.02 236.59 41.29 5 25 8 2439.1 -26.13 89.57

DIFFERENTIAL CORRECTIONS

TDE-3.8866 TRA-1.8152 TC3 -.0923 BAU .1538
 ROE 3.0928 RRA .7958 RC3 -.1630 FAU .00782
 FDE 4.9348 FRA 1.5754 FC3 -.1103 BSP 13832
 BDE 4.9670 BRA 1.9820 BC3 .1873 FSP -1104

MID-COURSE EXECUTION ACCURACY

SGT 3562.2 SGR 2462.0 SG3 351.0
 RRT -.9581 RRF .9948 RTF -.9821
 SGB 4330.2 R23 -.0962 R13 .9953
 SG1 4290.5 SG2 585.5 THA 145.76

ORBIT DETERMINATION ACCURACY

ST 2913.5 SR 2278.8 SS 2436.6
 CRT -.9951 CRS -.9996 CST .9976
 LSA 4425.3 MSA 188.3 SSA 1.1
 EL1 3694.6 EL2 176.9 ALF 142.00

LAUNCH DATE NOV 21 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 420.460

RL 147.77 LAL .00 LOL 58.75 VL 27.701 GAL 6.28 AZL 66.25 MCA 177.07 SMA 128.99 ECC .18139 INC23.7468 V1 30.151
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.681 GAP -5.00 AZP 113.72 TAL 149.20 TAP 326.27 RCA 105.59 APO 152.39 V2 34.961
 RC 53.536 GL 61.64 GP -75.03 ZAL 74.47 ZAP 75.06 ETS 99.78 ZAE 95.62 ETE 325.25 ZAC 116.65 ETC 247.38 CLP -3.12

PLANETOCENTRIC CONIC

C3 158.786 VHL 12.601 CLA 54.82 RAL 325.43 RAD 6570.7 VEL 16.737 PTH 2.90 VHP 13.631 DPA -53.42 RAP 80.34 ECC 3.6132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.88 18 29 58 4817.95 -10.09 229.80 228.24 35.81 19 50 15 4218.0 -16.53 225.35
 139.12 3 33 44 3216.34 -10.08 101.14 228.22 35.81 4 27 20 2616.3 -16.52 96.69
 40.88 18 29 58 4817.95 -10.09 229.80 228.24 35.81 19 50 15 4218.0 -16.53 225.35
 139.12 3 33 44 3216.34 -10.08 101.14 228.22 35.81 4 27 20 2616.3 -16.52 96.69
 40.88 18 29 58 4817.95 -10.09 229.80 228.24 35.81 19 50 15 4218.0 -16.53 225.35
 139.12 3 33 44 3216.34 -10.08 101.14 228.22 35.81 4 27 20 2616.3 -16.52 96.69

DIFFERENTIAL CORRECTIONS

TD-10.0652 TRA-1.4280 TC3 -.2210 BAU .4784
 ROE .3410 RRA -.6039 RC3 -.0440 FAU .01533
 FDE 3.7772 FRA .4353 FC3 .0836 BSP 14905
 BDE10.0710 BRA 1.5505 BC3 .2253 FSP -495

MID-COURSE EXECUTION ACCURACY

SGT 4746.1 SGR 513.4 SG3 152.4
 RRT -.0454 RRF .0875 RTF -.9990
 SGB 4773.8 R23 -.0416 R13 .9991
 SG1 4746.1 SG2 512.8 THA 179.72

ORBIT DETERMINATION ACCURACY

ST 4589.1 SR 211.0 SS 2026.3
 CRT -.6831 CRS -.6931 CST .9999
 LSA 5018.5 MSA 155.8 SSA .9
 EL1 4591.3 EL2 154.0 ALF 178.20

LAUNCH DATE NOV 21 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 428.059

RL 147.77 LAL .00 LOL 58.75 VL 27.735 GAL 5.98 AZL 153.34 MCA 181.12 SMA 129.22 ECC .17668 INC63.3462 V1 30.151
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.694 GAP -4.24 AZP 26.66 TAL 149.87 TAP 331.00 RCA 106.39 APO 152.05 V2 34.948
 RC 55.282 GL -53.76 GP 59.60 ZAL 83.93 ZAP 85.68 ETS 190.61 ZAE 75.74 ETE 325.42 ZAC 93.87 ETC 40.23 CLP 81.43

PLANETOCENTRIC CONIC

C3 934.125 VHL 30.563 CLA -55.50 RAL 12.96 RAD 6572.9 VEL 32.487 PTH 3.49 VHP 39.992 DPA 69.63 RAP 191.63 ECC16.3733
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.05 9 39 5 2363.63 -.17 67.96 283.06 145.50 10 18 28 1763.6 6.42 63.83
 139.95 18 43 48 751.77 -.16 298.16 283.08 145.50 18 56 19 151.8 6.43 294.03
 40.05 9 39 5 2363.63 -.17 67.96 283.06 145.50 10 18 28 1763.6 6.42 63.83
 139.95 18 43 48 751.77 -.16 298.16 283.08 145.50 18 56 19 151.8 6.43 294.03
 40.05 9 39 5 2363.63 -.17 67.96 283.06 145.50 10 18 28 1763.6 6.42 63.83
 139.95 18 43 48 751.77 -.16 298.16 283.08 145.50 18 56 19 151.8 6.43 294.03

DIFFERENTIAL CORRECTIONS

TDE 5.3968 TRA-4.5646 TC3 -.1600 BAU 4.0333
 RDE-3.2309 RRA10.0319 RC3 .2806 FAU-.07158
 FDE-1.0373 FRA 2.3184 FC3 .0663 BSP 14923
 BDE 6.2900 BRA11.0215 BC3 .3230 FSP -273

MID-COURSE EXECUTION ACCURACY

SGT 2064.4 SGR 3785.5 SG3 76.8
 RRT -.9348 RRF .9982 RTF -.9544
 SGB 4311.8 R23 -.0199 R13 .9998
 SG1 4262.3 SG2 651.4 THA 117.71

ORBIT DETERMINATION ACCURACY

ST 1109.0 SR 1166.8 SS 1042.0
 CRT -.8236 CRS -.9880 CST .9012
 LSA 1853.9 MSA 489.8 SSA .5
 EL1 1537.3 EL2 477.4 ALF 133.23

LAUNCH DATE NOV 21 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 27.764 GAL 5.98 AZL 102.54 MCA 183.78 SMA 129.43 ECC .17527 INC12.5402 V1 30.151
 RP 108.47 LAP .82 LOP 242.44 VP 37.704 GAP -3.90 AZP 77.49 TAL 149.50 TAP 333.28 RCA 106.75 APO 152.12 V2 34.936
 RC 57.109 GL -52.82 GP 73.39 ZAL 64.52 ZAP 74.91 ETS 303.51 ZAE 109.37 ETE 69.81 ZAC 87.27 ETC 143.75 CLP -24.33

DISTANCE 433.974

PLANETOCENTRIC CONIC

C3 56.636 VHL 7.526 CLA -42.24 RAL 37.66 RAD 6569.0 VEL 13.341 PTH 2.44 VMP 10.694 DPA 68.89 RAP 320.97 ECC 1.9321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.24 12 16 5 1814.25 18.06 34.44 286.60 128.86 12 46 19 1214.3 22.95 28.10
 122.76 19 23 52 5776.35 18.07 270.66 286.62 128.85 21 0 9 5176.3 22.97 264.32
 57.24 12 16 5 1814.25 18.06 34.44 286.60 128.86 12 46 19 1214.3 22.95 28.10
 122.76 19 23 52 5776.35 18.07 270.66 286.62 128.85 21 0 9 5176.3 22.97 264.32
 57.24 12 16 5 1814.25 18.06 34.44 286.60 128.86 12 46 19 1214.3 22.95 28.10
 122.76 19 23 52 5776.35 18.07 270.66 286.62 128.85 21 0 9 5176.3 22.97 264.32

DIFFERENTIAL CORRECTIONS

TDE -1.2504 TRA-3.1163 TC3 -.0788 BAU .1598
 RDE -.3242 RRA-3.5157 RC3 .1958 FAU .00644
 FDE .4711 FRA 2.4089 FC3 -.0985 BSP 15311
 BDE 1.2917 BRA 4.6981 BC3 .2110 FSP -682

MID-COURSE EXECUTION ACCURACY

SGT 3345.3 SGR 3635.9 SG3 216.6
 RRT .9691 RRF -.9969 RTF -.9851
 SGB 4940.8 R23 -.0371 R13 -.9992
 SG1 4902.7 SG2 612.2 THA 47.46

ORBIT DETERMINATION ACCURACY

ST 1353.0 SR 1112.4 SS 762.4
 CRT .8490 CRS .9746 CST .9457
 LSA 1849.6 MSA 477.8 SSA 1.1
 EL1 1687.0 EL2 471.5 ALF 38.47

LAUNCH DATE NOV 21 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 27.790 GAL 5.90 AZL 95.30 MCA 186.90 SMA 129.62 ECC .17319 INC 5.2962 V1 30.151
 RP 108.51 LAP .64 LOP 245.62 VP 37.712 GAP -3.43 AZP 84.74 TAL 149.47 TAP 336.37 RCA 107.17 APO 152.06 V2 34.923
 RC 59.010 GL -31.65 GP 59.03 ZAL 48.82 ZAP 67.86 ETS 320.94 ZAE 124.56 ETE 80.42 ZAC 91.03 ETC 153.12 CLP -42.93

DISTANCE 440.424

PLANETOCENTRIC CONIC

C3 23.653 VHL 4.863 CLA -21.64 RAL 30.26 RAD 6568.0 VEL 12.043 PTH 2.15 VMP 6.560 DPA 56.82 RAP 343.05 ECC 1.3893
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 12 30 36 1505.38 1.59 .21 254.72 118.28 12 55 41 905.4 5.36 353.55
 90.00 18 10 20 5648.42 27.96 265.70 262.69 94.65 19 44 29 5048.4 28.31 257.06
 100.00 13 36 53 1291.45 .03 343.61 253.85 119.89 13 58 24 691.4 4.01 337.08
 100.00 19 46 44 5337.59 29.75 242.97 262.83 93.09 21 15 42 4737.6 29.86 234.17
 110.00 14 13 37 1176.30 -3.72 332.54 251.50 124.00 14 33 13 576.3 .76 326.33
 110.00 21 26 29 5025.50 34.17 219.37 262.93 89.11 22 50 15 4425.5 33.67 210.16

DIFFERENTIAL CORRECTIONS

TDE -.7027 TRA-1.8185 TC3 .0036 BAU .2670
 RDE -.5155 RRA-2.9978 RC3 .8443 FAU .03259
 FDE .8681 FRA 4.1385 FC3 -1.1928 BSP 14683
 BDE .8715 BRA 3.5062 BC3 .8443 FSP -1487

MID-COURSE EXECUTION ACCURACY

SGT 2449.0 SGR 3934.3 SG3 472.5
 RRT .9613 RRF -.9994 RTF -.9662
 SGB 4634.3 R23 -.0568 R13 -.9980
 SG1 4598.2 SG2 577.0 THA 58.55

ORBIT DETERMINATION ACCURACY

ST 1078.6 SR 1291.8 SS 1063.9
 CRT .9265 CRS .9962 CST .9556
 LSA 1964.5 MSA 323.3 SSA 3.2
 EL1 1652.7 EL2 317.2 ALF 50.54

LAUNCH DATE NOV 21 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 27.813 GAL 5.83 AZL 92.57 MCA 190.06 SMA 129.78 ECC .17132 INC 2.5720 V1 30.151
 RP 108.55 LAP .45 LOP 248.80 VP 37.718 GAP -2.96 AZP 87.47 TAL 149.45 TAP 339.51 RCA 107.54 APO 152.01 V2 34.911
 RC 60.976 GL -17.08 GP 49.16 ZAL 41.43 ZAP 65.07 ETS 330.10 ZAE 134.35 ETE 83.59 ZAC 93.85 ETC 155.61 CLP -49.86

DISTANCE 446.901

PLANETOCENTRIC CONIC

C3 17.879 VHL 4.228 CLA -7.87 RAL 25.26 RAD 6567.7 VEL 11.801 PTH 2.09 VMP 5.116 DPA 48.01 RAP 351.20 ECC 1.2942
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 0 45 1941.68 -12.15 24.89 243.66 115.78 10 33 6 1341.7 -8.58 18.03
 90.00 20 0 15 5078.33 24.22 224.85 247.01 74.87 21 24 54 4478.3 21.91 216.94
 100.00 11 18 18 1691.49 -13.15 5.99 243.15 117.09 11 46 29 1091.5 -9.42 359.19
 100.00 21 25 23 4803.74 25.30 204.32 246.68 73.53 22 45 27 4203.7 22.80 196.41
 110.00 12 17 53 1504.90 -15.81 350.31 241.64 120.71 12 42 58 904.9 -11.62 343.71
 110.00 22 42 17 4563.09 28.18 184.98 245.61 69.80 23 58 20 3963.1 25.17 177.10

DIFFERENTIAL CORRECTIONS

TDE -.5618 TRA-1.4004 TC3 -.0259 BAU .2674
 RDE -.6194 RRA-2.5621 RC3 1.1182 FAU .05494
 FDE 1.6312 FRA 5.8417 FC3 -2.6600 BSP 13613
 BDE .8362 BRA 2.9198 BC3 1.1185 FSP -2320

MID-COURSE EXECUTION ACCURACY

SGT 2061.4 SGR 3725.8 SG3 742.2
 RRT .9546 RRF -.9994 RTF -.9566
 SGB 4258.0 R23 -.0604 R13 -.9976
 SG1 4223.4 SG2 541.7 THA 61.65

ORBIT DETERMINATION ACCURACY

ST 953.8 SR 1345.6 SS 1441.6
 CRT .9686 CRS .9975 CST .9837
 LSA 2181.5 MSA 195.4 SSA 6.2
 EL1 1637.8 EL2 194.9 ALF 54.96

LAUNCH DATE NOV 21 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 27.833 GAL 5.77 AZL 91.14 MCA 193.23 SMA 129.92 ECC .16972 INC 1.1434 V1 30.151
 RP 108.58 LAP .26 LOP 251.98 VP 37.722 GAP -2.49 AZP 88.89 TAL 149.43 TAP 342.66 RCA 107.87 APO 151.97 V2 34.900
 RC 63.000 GL -7.88 GP 42.32 ZAL 38.76 ZAP 65.16 ETS 337.27 ZAE 141.04 ETE 86.84 ZAC 95.38 ETC 157.40 CLP -55.38

DISTANCE 453.368

PLANETOCENTRIC CONIC

C3 16.248 VHL 4.031 CLA .76 RAL 22.05 RAD 6567.7 VEL 11.732 PTH 2.07 VMP 4.390 DPA 41.48 RAP 354.87 ECC 1.2674
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 43 4 2189.55 -18.95 39.90 240.23 111.44 9 19 33 1589.5 -15.87 32.58
 90.00 20 52 23 4786.35 17.75 205.91 239.92 67.57 22 12 10 4186.4 14.56 198.69
 100.00 10 4 46 1926.02 -19.92 20.11 239.82 112.76 10 36 52 1326.0 -16.67 12.82
 100.00 22 13 23 4525.11 18.71 186.27 239.49 66.26 23 28 48 3925.1 15.35 179.09
 110.00 11 13 49 1709.87 -22.51 2.43 238.54 116.43 11 42 19 1109.9 -18.78 355.28
 110.00 23 20 48 4314.03 21.29 168.94 238.18 62.60 24 32 42 3714.0 17.45 161.91

DIFFERENTIAL CORRECTIONS

TDE -.4745 TRA-1.1001 TC3 -.1074 BAU .2541
 RDE -.6828 RRA-2.2669 RC3 1.1647 FAU .07372
 FDE 2.5400 FRA 7.3232 FC3 -3.9279 BSP 12520
 BDE .8315 BRA 2.5197 BC3 1.1697 FSP -3088

MID-COURSE EXECUTION ACCURACY

SGT 1705.2 SGR 3494.0 SG3 990.5
 RRT .9420 RRF -.9992 RTF -.9433
 SGB 3887.9 R23 -.0571 R13 -.9976
 SG1 3853.2 SG2 518.9 THA 64.82

ORBIT DETERMINATION ACCURACY

ST 821.6 SR 1370.1 SS 1810.9
 CRT .9843 CRS .9975 CST .9942
 LSA 2411.5 MSA 127.7 SSA 10.2
 EL1 1592.7 EL2 124.6 ALF 59.24

LAUNCH DATE NOV 21 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 27.851 GAL 5.73 AZL 90.26 MCA 196.40 SMA 130.04 ECC .16840 INC .2592 V1 30.151
 RP 108.62 LAP .07 LOP 255.15 VP 37.724 GAP -2.03 AZP 89.75 TAL 149.40 TAP 345.80 RCA 108.14 APO 151.94 V2 34.889
 RC 65.076 GL -1.83 GP 37.37 ZAL 38.02 ZAP 67.11 ETS 343.12 ZAE 145.76 ETE 91.29 ZAC 95.88 ETC 159.01 CLP -60.70

PLANETOCENTRIC CONIC

C3 15.707 VHL 3.963 DLA 6.42 RAL 19.88 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 3.948 DPA 36.40 RAP 356.44 ECC 1.2585
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 51 57 2358.46 -22.78 50.81 239.03 107.29 8 31 16 1758.5 -20.20 43.08
 90.00 21 26 7 4602.07 12.63 194.81 236.50 64.45 22 42 49 4002.1 9.09 187.92
 100.00 9 16 21 2086.25 -23.79 30.43 238.67 108.65 9 51 7 1486.3 -21.02 22.73
 100.00 22 44 24 4349.51 13.59 175.75 236.02 63.12 23 56 54 3749.5 9.87 168.93
 110.00 10 31 35 1850.82 -26.49 11.44 237.56 112.44 11 2 25 1250.8 -23.22 3.81
 110.00 23 45 40 4157.71 16.12 159.76 234.59 59.44 24 54 58 3557.7 11.94 153.15

DIFFERENTIAL CORRECTIONS

TOE -.3790 TRA -.8205 TC3 -.2193 BAU .2426
 ROE -.7132 RRA-2.0523 RC3 1.1345 FAU .08959
 FDE 3.4732 FRA 8.5938 FC3-4.9380 BSP 11460
 BOE .8076 BRA 2.2103 BC3 1.1555 FSP -3786

MID-COURSE EXECUTION ACCURACY

SGT 1324.9 SGR 3284.2 SG3 1212.2
 RRT .9130 RRF -.9989 RTF -.9145
 SGB 3541.4 R23 -.0487 R13 -.9977
 SG1 3505.0 SG2 506.5 THA 69.33

ORBIT DETERMINATION ACCURACY

ST 654.6 SR 1366.0 SS 2138.2
 CRT .9903 CRS .9973 CST .9977
 LSA 2618.4 MSA 100.6 SSA 13.8
 EL1 1512.5 EL2 82.0 ALF 64.53

LAUNCH DATE NOV 21 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 27.865 GAL 5.69 AZL 89.66 MCA 199.58 SMA 130.14 ECC .16736 INC .3414 V1 30.151
 RP 108.65 LAP -.11 LOP 258.33 VP 37.725 GAP -1.58 AZP 90.32 TAL 149.34 TAP 348.92 RCA 108.36 APO 151.92 V2 34.878
 RC 67.198 GL 2.40 GP 33.61 ZAL 37.99 ZAP 70.29 ETS 347.94 ZAE 149.07 ETE 97.27 ZAC 95.60 ETC 160.51 CLP -66.11

PLANETOCENTRIC CONIC

C3 15.552 VHL 3.944 DLA 10.35 RAL 18.32 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 3.649 DPA 32.24 RAP 356.80 ECC 1.2560
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 14 43 2483.09 -25.05 59.23 238.64 103.66 7 56 6 1883.1 -22.92 51.21
 90.00 21 50 54 4472.95 8.73 187.33 234.70 62.96 23 5 27 3872.9 5.04 180.60
 100.00 8 41 12 2204.16 -26.12 38.41 238.34 105.07 9 17 56 1604.2 -23.80 30.38
 100.00 23 7 6 4227.11 9.71 168.73 234.17 61.59 24 17 33 3627.1 5.84 162.08
 110.00 10 1 7 1954.08 -28.98 18.44 237.35 108.97 10 33 41 1354.1 -26.12 10.43
 110.00 0 7 36 4049.96 12.29 153.75 232.64 57.85 1 15 6 3450.0 7.96 147.34

DIFFERENTIAL CORRECTIONS

TOE -.2625 TRA -.5386 TC3 -.3550 BAU .2363
 ROE -.7221 RRA-1.8854 RC3 1.0798 FAU .10290
 FDE 4.3809 FRA 9.6840 FC3-5.7278 BSP 10409
 BOE .7683 BRA 1.9608 BC3 1.1366 FSP -4404

MID-COURSE EXECUTION ACCURACY

SGT 925.6 SGR 3095.1 SG3 1407.8
 RRT .8296 RRF -.9984 RTF -.8315
 SGB 3230.5 R23 -.0342 R13 -.9979
 SG1 3191.4 SG2 501.1 THA 75.71

ORBIT DETERMINATION ACCURACY

ST 450.0 SR 1341.3 SS 2420.8
 CRT .9929 CRS .9969 CST .9988
 LSA 2802.2 MSA 96.0 SSA 15.3
 EL1 1413.9 EL2 50.9 ALF 71.55

LAUNCH DATE NOV 21 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 27.877 GAL 5.67 AZL 89.22 MCA 202.75 SMA 130.23 ECC .16657 INC .7816 V1 30.151
 RP 108.68 LAP -.30 LOP 261.50 VP 37.724 GAP -1.14 AZP 90.72 TAL 149.27 TAP 352.02 RCA 108.53 APO 151.92 V2 34.867
 RC 69.360 GL 5.50 GP 30.61 ZAL 38.22 ZAP 74.31 ETS 351.95 ZAE 151.23 ETE 104.74 ZAC 94.75 ETC 161.91 CLP -71.68

PLANETOCENTRIC CONIC

C3 15.567 VHL 3.945 DLA 13.24 RAL 17.16 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 3.438 DPA 28.63 RAP 356.40 ECC 1.2562
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 53 2580.36 -26.44 66.01 238.60 100.53 7 28 54 1980.4 -24.72 57.77
 90.00 22 10 31 4376.11 5.69 181.83 233.72 62.21 23 23 27 3776.1 1.93 175.18
 100.00 8 14 8 2295.76 -27.59 44.83 238.35 102.00 8 52 24 1695.8 -25.65 36.56
 100.00 23 24 57 4135.94 6.72 163.62 233.15 60.80 24 33 53 3535.9 2.78 157.05
 110.00 9 37 54 2033.64 -30.61 24.06 237.48 106.01 10 11 48 1433.6 -28.11 15.75
 110.00 0 21 36 3970.82 9.39 149.46 231.53 56.98 1 27 47 3370.8 4.98 143.15

DIFFERENTIAL CORRECTIONS

TOE -.1207 TRA -.2456 TC3 -.5055 BAU .2372
 ROE -.7128 RRA-1.7427 RC3 1.0216 FAU .11430
 FDE 5.2140 FRA10.5826 FC3-6.3567 BSP 9485
 BOE .7229 BRA 1.7599 BC3 1.1398 FSP -4965

MID-COURSE EXECUTION ACCURACY

SGT 569.2 SGR 2912.1 SG3 1573.7
 RRT .4900 RRF -.9978 RTF -.4929
 SGB 2967.2 R23 -.0121 R13 -.9978
 SG1 2925.8 SG2 493.9 THA 84.37

ORBIT DETERMINATION ACCURACY

ST 207.2 SR 1296.2 SS 2653.2
 CRT .9934 CRS .9962 CST .9972
 LSA 2958.4 MSA 101.1 SSA 15.4
 EL1 1312.5 EL2 23.4 ALF 80.97

LAUNCH DATE NOV 21 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

RL 147.77 LAL .00 LOL 58.75 VL 27.886 GAL 5.67 AZL 88.88 MCA 205.92 SMA 130.29 ECC .16605 INC 1.1182 V1 30.151
 RP 108.72 LAP -.49 LOP 264.67 VP 37.722 GAP -.70 AZP 91.01 TAL 149.17 TAP 355.09 RCA 108.66 APO 151.93 V2 34.858
 RC 71.560 GL 7.86 GP 28.11 ZAL 38.50 ZAP 78.91 ETS 355.33 ZAE 152.35 ETE 113.36 ZAC 93.45 ETC 163.19 CLP -77.41

PLANETOCENTRIC CONIC

C3 15.675 VHL 3.959 DLA 15.45 RAL 16.29 RAD 6567.6 VEL 11.707 PTH 2.06 VHP 3.288 DPA 25.38 RAP 355.50 ECC 1.2580
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 22 38 2659.56 -27.30 71.65 238.74 97.83 7 6 57 2059.6 -25.93 63.25
 90.00 22 26 49 4300.02 3.26 177.56 233.21 61.86 23 38 29 3700.0 -.53 170.93
 100.00 7 52 26 2369.94 -28.52 50.14 238.53 99.35 8 31 56 1769.9 -26.94 41.70
 100.00 23 39 42 4064.88 4.35 159.68 232.62 60.40 24 47 27 3464.9 .37 153.15
 110.00 9 19 31 2097.46 -31.72 28.70 237.79 103.47 9 54 29 1497.5 -29.54 20.17
 110.00 0 33 2 3910.12 7.12 146.23 230.90 56.48 1 38 12 3310.1 2.67 139.97

DIFFERENTIAL CORRECTIONS

TOE .0440 TRA .0577 TC3 -.6694 BAU .2451
 ROE -.6897 RRA-1.6139 RC3 .9590 FAU .12330
 FDE 5.9483 FRA11.2852 FC3-6.8100 BSP 8705
 BOE .6911 BRA 1.6150 BC3 1.1695 FSP -5436

MID-COURSE EXECUTION ACCURACY

SGT 540.8 SGR 2728.5 SG3 1706.9
 RRT -.4580 RRF -.9971 RTF .4562
 SGB 2781.6 R23 .0169 R13 -.9969
 SG1 2740.1 SG2 478.7 THA 95.35

ORBIT DETERMINATION ACCURACY

ST 70.5 SR 1235.0 SS 2840.0
 CRT -.9499 CRS .9954 CST -.9675
 LSA 3095.7 MSA 109.3 SSA 15.0
 EL1 1236.8 EL2 22.0 ALF 93.11

LAUNCH DATE NOV 21 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 485.418

RL 147.77 LAL .00 LOL 58.75 VL 27.894 GAL 5.68 AZL 88.61 MCA 209.09 SMA 130.35 ECC .16579 INC 1.3862 V1 30.151
 RP 108.74 LAP -.67 LOP 267.84 VP 37.719 GAP -.27 A7P 91.21 TAL 149.04 TAP 358.13 RCA 108.74 APO 151.96 V2 34.848
 RC 73.792 GL 9.71 GP 25.93 ZAL 38.77 ZAP 83.92 ETS 358.18 ZAE 152.48 ETC 122.51 ZAC 91.86 ETC 164.34 CLP -83.23

PLANETOCENTRIC CONIC

C3 15.845 VHL 3.981 DLA 17.19 RAL 15.63 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 3.185 DPA 22.37 RAP 354.28 ECC 1.2608
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 3 20 2726.21 -27.83 76.46 238.99 95.48 6 48 47 2126.2 -26.77 67.95
 90.00 22 40 51 4238.28 1.27 174.12 233.03 61.71 23 51 30 3638.3 -2.52 167.49
 100.00 7 34 35 2431.99 -29.12 54.65 238.83 97.05 8 15 7 1832.0 -27.84 46.08
 100.00 23 52 18 4007.74 2.42 156.53 232.39 60.20 24 59 6 3407.7 -1.57 150.01
 110.00 9 4 36 2150.32 -32.49 32.63 238.20 101.26 9 40 26 1550.3 -30.60 23.92
 110.00 0 42 42 3862.17 5.31 143.69 230.59 56.18 1 47 4 3262.2 .84 137.47

DIFFERENTIAL CORRECTIONS

TDE .2273 TRA .3674 TC3 -.8422 BAU .2603
 RDE -.6535 RRA-1.4911 RC3 .8950 FAU .13001
 FDE 6.5450 FRA11.7664 FC3-7.1032 BSP 8201
 BOE .6919 BRA 1.5357 BC3 1.2290 FSP -5820

MID-COURSE EXECUTION ACCURACY

SGT 929.0 SGR 2337.6 SG3 1802.0
 RRT -.8607 RRF -.9960 RTF .8612
 SGB 2702.3 R23 .0470 R13 -.9950
 SG1 2664.5 SG2 450.4 TMA 108.02

ORBIT DETERMINATION ACCURACY

ST 367.5 SR 1157.4 SS 2977.4
 CRT -.9878 CRS .9942 CST -.9983
 LSA 3213.3 MSA 118.0 SSA 14.5
 EL1 1213.1 EL2 54.5 ALF 107.45

LAUNCH DATE NOV 21 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 491.762

RL 147.77 LAL .00 LOL 58.75 VL 27.899 GAL 5.70 AZL 88.39 MCA 212.26 SMA 130.38 ECC .16577 INC 1.6055 V1 30.151
 RP 108.77 LAP -.86 LOP 271.00 VP 37.714 GAP .16 A7P 91.36 TAL 148.88 TAP 1.15 RCA 108.77 APO 152.00 V2 34.839
 RC 76.053 GL 11.19 GP 23.96 ZAL 38.99 ZAP 89.16 ETS .60 ZAE 151.71 ETE 131.42 ZAC 90.07 ETC 165.34 CLP -89.08

PLANETOCENTRIC CONIC

C3 16.068 VHL 4.008 DLA 18.59 RAL 15.14 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 3.123 DPA 19.53 RAP 352.87 ECC 1.2644
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 1 2783.76 -28.13 80.64 239.32 93.40 6 33 25 2183.8 -27.36 72.06
 90.00 22 53 15 4187.06 -.38 171.26 233.07 61.69 24 3 2 3587.1 -4.16 164.62
 100.00 7 19 36 2485.24 -29.51 58.57 239.21 95.02 8 1 1 1885.2 -28.50 49.91
 100.00 0 7 18 3960.82 .83 153.96 232.39 60.12 1 13 19 3360.8 -3.15 147.43
 110.00 8 52 17 2195.26 -33.04 36.02 238.69 99.33 9 28 52 1595.3 -31.40 27.18
 110.00 0 51 6 3823.56 3.85 141.67 230.51 56.01 1 54 50 3223.6 -.64 135.46

DIFFERENTIAL CORRECTIONS

TDE .4245 TRA .6787 TC3-1.0184 BAU .2818
 RDE -.6070 RRA-1.3724 RC3 .8269 FAU .13380
 FDE 6.9888 FRA12.0252 FC3-7.2090 BSP 8054
 BOE .7407 BRA 1.5310 BC3 1.3118 FSP -6083

MID-COURSE EXECUTION ACCURACY

SGT 1443.0 SGR 2340.1 SG3 1857.2
 RRT -.9435 RRF -.9947 RTF .9459
 SGB 2749.2 R23 .0677 R13 -.9926
 SG1 2718.2 SG2 411.6 TMA 120.98

ORBIT DETERMINATION ACCURACY

ST 680.5 SR 1067.1 SS 3069.8
 CRT -.9882 CRS .9925 CST -.9993
 LSA 3318.0 MSA 126.5 SSA 14.0
 EL1 1262.6 EL2 88.0 ALF 122.39

LAUNCH DATE NOV 21 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 498.084

RL 147.77 LAL .00 LOL 58.75 VL 27.902 GAL 5.74 AZL 88.21 MCA 215.43 SMA 130.41 ECC .16601 INC 1.7892 V1 30.151
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.709 GAP .59 A7P 91.46 TAL 148.70 TAP 4.13 RCA 108.76 APO 152.05 V2 34.831
 RC 78.340 GL 12.38 GP 22.15 ZAL 39.16 ZAP 94.52 ETS 2.64 ZAE 150.21 ETE 139.50 ZAC 88.21 ETC 166.16 CLP -94.88

PLANETOCENTRIC CONIC

C3 16.338 VHL 4.042 DLA 19.75 RAL 14.79 RAD 6567.7 VEL 11.735 PTH 2.07 VHP 3.097 DPA 16.86 RAP 351.41 ECC 1.2689
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 2 2834.47 -28.28 84.34 239.73 91.55 6 20 17 2234.5 -27.76 75.71
 90.00 23 4 25 4143.94 -1.77 168.85 233.28 61.73 24 13 29 3543.9 -5.54 162.20
 100.00 7 6 53 2531.87 -29.73 62.01 239.66 93.22 7 49 5 1931.9 -28.97 53.29
 100.00 0 17 12 3921.77 -.50 151.82 232.57 60.11 1 22 34 3321.8 -4.47 145.28
 110.00 8 42 0 2234.28 -33.43 39.00 239.25 97.60 9 19 14 1634.3 -32.02 30.06
 110.00 0 58 34 3792.13 2.65 140.02 230.61 55.91 2 1 46 3192.1 -1.84 133.82

DIFFERENTIAL CORRECTIONS

TDE .6300 TRA .9864 TC3-1.1906 BAU .3082
 RDE -.5519 RRA-1.2565 RC3 .7573 FAU .13483
 FDE 7.2637 FRA12.0586 FC3-7.1449 BSP 8331
 BOE .8376 BRA 1.5975 BC3 1.4110 FSP -6225

MID-COURSE EXECUTION ACCURACY

SGT 1982.6 SGR 2137.4 SG3 1871.5
 RRT -.9674 RRF -.9927 RTF .9718
 SGB 2915.4 R23 .0723 R13 -.9911
 SG1 2891.6 SG2 371.3 TMA 132.78

ORBIT DETERMINATION ACCURACY

ST 998.5 SR 966.9 SS 3117.4
 CRT -.9864 CRS .9901 CST -.9996
 LSA 3410.5 MSA 134.4 SSA 13.6
 EL1 1385.2 EL2 114.5 ALF 135.94

LAUNCH DATE NOV 21 1968

FLIGHT TIME 188.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 504.383

RL 147.77 LAL .00 LOL 58.75 VL 27.903 GAL 5.79 AZL 88.05 MCA 218.60 SMA 130.41 ECC .16648 INC 1.9464 V1 30.151
 RP 108.82 LAP -1.21 LOP 277.33 VP 37.703 GAP 1.01 A7P 91.52 TAL 148.48 TAP 7.08 RCA 108.70 APO 152.13 V2 34.824
 RC 80.651 GL 13.36 GP 20.46 ZAL 39.26 ZAP 99.87 ETS 4.36 ZAE 148.17 ETE 146.42 ZAC 86.38 ETC 166.80 CLP -100.54

PLANETOCENTRIC CONIC

C3 16.655 VHL 4.081 DLA 20.72 RAL 14.55 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 3.103 DPA 14.34 RAP 349.97 ECC 1.2741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 20 57 2879.90 -28.32 87.66 240.21 89.89 6 8 57 2279.9 -28.03 79.01
 90.00 23 14 37 4107.31 -2.95 166.81 233.64 61.82 24 23 4 3507.3 -6.70 160.13
 100.00 6 56 1 2573.38 -29.85 65.09 240.19 91.60 7 38 54 1973.4 -29.31 56.33
 100.00 0 26 11 3889.06 -1.61 150.02 232.89 60.15 1 31 0 3289.1 -5.57 143.47
 110.00 8 33 23 2268.75 -33.71 41.65 239.89 96.06 9 11 12 1668.8 -32.50 32.63
 110.00 1 5 18 3766.46 1.67 138.68 230.84 55.85 2 8 4 3166.5 -2.82 132.48

DIFFERENTIAL CORRECTIONS

TDE .8390 TRA 1.2865 TC3-1.3527 BAU .3376
 RDE -.4918 RRA-1.1461 RC3 .6846 FAU .13261
 FDE 7.3831 FRA11.9030 FC3-6.8933 BSP 8969
 BOE .9726 BRA 1.7230 BC3 1.5161 FSP -6221

MID-COURSE EXECUTION ACCURACY

SGT 2517.1 SGR 1936.1 SG3 1849.7
 RRT -.9752 RRF -.9901 RTF .9821
 SGB 3175.6 R23 .0645 R13 -.9908
 SG1 3157.1 SG2 341.7 TMA 142.61

ORBIT DETERMINATION ACCURACY

ST 1313.1 SR 862.2 SS 3128.8
 CRT -.9830 CRS .9865 CST -.9997
 LSA 3498.2 MSA 141.6 SSA 13.4
 EL1 1565.3 EL2 132.9 ALF 146.89

LAUNCH DATE NOV 21 1968

FLIGHT TIME 190.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 510.659

RL 147.77 LAL .00 LOL 58.75 VL 27.903 GAL 5.86 AZL 87.92 HCA 221.77 SMA 130.41 ECC .16720 INC 2.0831 V1 30.151
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.696 GAP 1.43 AZP 91.55 TAL 148.23 TAP 9.99 RCA 108.61 APO 152.22 V2 34.816
 RC 82.981 GL 14.16 GP 18.89 ZAL 39.30 ZAP 105.11 ETS 5.80 ZAE 145.79 ETE 152.14 ZAC 84.65 ETC 167.27 CLP-105.99

PLANETOCENTRIC CONIC

C3 17.020 VHL 4.126 DLA 21.53 RAL 14.41 RAD 6567.7 VEL 11.765 PTH 2.08 VMP 3.138 DPA 12.01 RAP 348.63 ECC 1.2801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 28 2921.09 -28.27 90.68 240.77 88.38 5 59 9 2321.1 -28.20 82.01
 90.00 23 24 2 4076.10 -3.95 165.06 234.12 61.94 24 31 58 3476.1 -7.68 158.36
 100.00 6 46 42 2610.80 -29.89 67.87 240.79 90.14 7 30 13 2010.8 -29.55 59.09
 100.00 0 34 25 3861.62 -2.54 148.51 233.33 60.21 1 38 47 3261.6 -6.48 141.95
 110.00 8 26 10 2299.64 -33.90 44.04 240.60 94.66 9 4 29 1699.6 -32.89 34.95
 110.00 1 11 27 3745.55 .87 137.59 231.21 55.83 2 13 52 3145.5 -3.62 131.38

DIFFERENTIAL CORRECTIONS

TDE 1.0454 TRA 1.5740 TC3-1.5007 BAU .3692
 RDE -.4273 RRA-1.0405 RC3 .6165 FAU .12860
 FDE 7.3396 FRA11.5679 FC3-6.5412 BSP .9912
 BOE 1.1294 BRA 1.8868 BC3 1.6224 FSP -6130

MID-COURSE EXECUTION ACCURACY

SGT 3027.1 SGR 1738.9 SG3 1794.3
 RRT -.9768 RRF -.9864 RTF .9873
 SGB 3491.0 R23 .0504 R13 -.9913
 SG1 3475.9 SG2 324.4 TMA 150.42

ORBIT DETERMINATION ACCURACY

ST 1614.4 SR 754.7 SS 3100.7
 CRT -.9773 CRS .9809 CST -.9998
 LSA 3573.2 MSA 148.5 SSA 13.1
 EL1 1776.1 EL2 145.5 ALF 155.27

LAUNCH DATE NOV 21 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 516.911

RL 147.77 LAL .00 LOL 58.75 VL 27.901 GAL 5.94 AZL 87.80 HCA 224.93 SMA 130.40 ECC .16817 INC 2.2039 V1 30.151
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.689 GAP 1.84 AZP 91.56 TAL 147.95 TAP 12.88 RCA 108.47 APO 152.33 V2 34.810
 RC 85.328 GL 14.81 GP 17.41 ZAL 39.28 ZAP 110.17 ETS 6.99 ZAE 143.25 ETE 156.76 ZAC 83.11 ETC 167.58 CLP-111.19

PLANETOCENTRIC CONIC

C3 17.437 VHL 4.176 DLA 22.22 RAL 14.37 RAD 6567.7 VEL 11.782 PTH 2.08 VMP 3.200 DPA 9.88 RAP 347.45 ECC 1.2870
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 1 22 2958.82 -28.17 93.43 241.40 87.00 5 50 41 2358.8 -28.29 84.77
 90.00 23 32 47 4049.55 -4.80 163.57 234.71 62.06 24 40 16 3449.6 -8.50 156.85
 100.00 6 38 44 2644.90 -29.87 70.41 241.47 88.81 7 22 49 2044.9 -29.72 61.61
 100.00 0 42 2 3838.71 -3.31 147.25 233.89 60.27 1 46 1 3238.7 -7.24 140.67
 110.00 8 20 8 2327.66 -34.04 46.22 241.38 93.37 8 58 56 1727.7 -33.19 37.08
 110.00 1 17 8 3728.71 .23 136.71 231.68 55.82 2 19 16 3128.7 -4.26 130.50

DIFFERENTIAL CORRECTIONS

TDE 1.2460 TRA 1.8475 TC3-1.6305 BAU .4012
 RDE -.3621 RRA -.9426 RC3 .5514 FAU .12261
 FDE 7.1732 FRA11.1092 FC3-6.0876 BSP .11022
 BOE 1.2976 BRA 2.0741 BC3 1.7212 FSP -5946

MID-COURSE EXECUTION ACCURACY

SGT 3503.7 SGR 1552.7 SG3 1714.7
 RRT -.9747 RRF -.9813 RTF .9900
 SGB 3832.4 R23 .0369 R13 -.9920
 SG1 3819.1 SG2 318.6 TMA 156.47

ORBIT DETERMINATION ACCURACY

ST 1897.3 SR 650.2 SS 3045.1
 CRT -.9682 CRS .9724 CST -.9998
 LSA 3642.9 MSA 154.9 SSA 12.8
 EL1 1999.6 EL2 154.2 ALF 161.53

LAUNCH DATE NOV 21 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 523.139

RL 147.77 LAL .00 LOL 58.75 VL 27.897 GAL 6.04 AZL 87.69 HCA 228.10 SMA 130.37 ECC .16937 INC 2.3119 V1 30.151
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.681 GAP 2.26 AZP 91.54 TAL 147.63 TAP 15.73 RCA 108.29 APO 152.45 V2 34.804
 RC 87.691 GL 15.33 GP 16.05 ZAL 39.20 ZAP 115.00 ETS 7.97 ZAE 140.68 ETE 160.43 ZAC 81.79 ETC 167.74 CLP-116.09

PLANETOCENTRIC CONIC

C3 17.909 VHL 4.232 DLA 22.81 RAL 14.41 RAD 6567.7 VEL 11.802 PTH 2.09 VMP 3.286 DPA 7.96 RAP 346.47 ECC 1.2947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 30 2993.65 -28.02 95.97 242.11 85.74 5 43 24 2393.6 -28.32 87.32
 90.00 23 40 57 4027.12 -5.51 162.31 235.40 62.18 24 48 4 3427.1 -9.20 155.56
 100.00 6 31 57 2676.22 -29.80 72.73 242.23 87.58 7 16 33 2076.2 -29.82 63.93
 100.00 0 49 7 3819.78 -3.95 146.21 234.54 60.35 1 52 47 3219.8 -7.87 139.62
 110.00 8 15 9 2353.35 -34.12 48.22 242.24 92.19 8 54 23 1753.3 -33.44 39.05
 110.00 1 22 24 3715.42 -.28 136.02 232.26 55.82 2 24 20 3115.4 -4.77 129.80

DIFFERENTIAL CORRECTIONS

TDE 1.4385 TRA 2.1068 TC3-1.7398 BAU .4328
 RDE -.2984 RRA -.8536 RC3 .4909 FAU .11522
 FDE 6.9146 FRA10.5705 FC3-5.5699 BSP .12198
 BOE 1.4691 BRA 2.2732 BC3 1.8077 FSP -5686

MID-COURSE EXECUTION ACCURACY

SGT 3941.8 SGR 1381.2 SG3 1618.5
 RRT -.9695 RRF -.9742 RTF .9916
 SGB 4176.8 R23 .0263 R13 -.9926
 SG1 4164.5 SG2 320.3 TMA 161.12

ORBIT DETERMINATION ACCURACY

ST 2158.0 SR 552.2 SS 2968.9
 CRT -.9539 CRS .9588 CST -.9998
 LSA 3708.1 MSA 160.9 SSA 12.7
 EL1 2221.7 EL2 160.9 ALF 166.21

LAUNCH DATE NOV 21 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 529.343

RL 147.77 LAL .00 LOL 58.75 VL 27.892 GAL 6.15 AZL 87.59 HCA 231.26 SMA 130.34 ECC .17082 INC 2.4097 V1 30.151
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.672 GAP 2.68 AZP 91.51 TAL 147.28 TAP 18.54 RCA 108.07 APO 152.60 V2 34.799
 RC 90.065 GL 15.76 GP 14.79 ZAL 39.07 ZAP 119.55 ETS 8.79 ZAE 138.17 ETE 163.38 ZAC 80.72 ETC 167.80 CLP-120.67

PLANETOCENTRIC CONIC

C3 18.439 VHL 4.294 DLA 23.32 RAL 14.52 RAD 6567.7 VEL 11.825 PTH 2.09 VMP 3.394 DPA 6.26 RAP 345.71 ECC 1.3035
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 45 3025.98 -27.83 98.32 242.90 84.57 5 37 11 2426.0 -28.30 89.68
 90.00 23 48 36 4008.43 -6.11 161.26 236.19 62.30 24 55 25 3408.4 -9.77 154.49
 100.00 6 26 14 2705.18 -29.70 74.88 243.07 86.46 7 11 20 2105.2 -29.88 66.08
 100.00 0 55 44 3804.45 -4.46 145.37 235.29 60.41 1 59 8 3204.5 -8.37 138.76
 110.00 8 11 6 2377.11 -34.17 50.08 243.18 91.09 8 50 44 1777.1 -33.64 40.87
 110.00 1 27 21 3705.29 -.67 135.49 232.93 55.82 2 29 7 3105.3 -5.15 129.27

DIFFERENTIAL CORRECTIONS

TDE 1.6215 TRA 2.3527 TC3-1.8272 BAU .4631
 RDE -.2375 RRA -.7739 RC3 .4357 FAU .10691
 FDE 6.9931 FRA 9.9878 FC3-5.0196 BSP .13369
 BOE 1.6388 BRA 2.4767 BC3 1.8784 FSP -5376

MID-COURSE EXECUTION ACCURACY

SGT 4339.2 SGR 1226.7 SG3 1512.8
 RRT -.9612 RRF -.9646 RTF .9925
 SGB 4509.2 R23 .0188 R13 -.9931
 SG1 4497.4 SG2 326.3 TMA 164.71

ORBIT DETERMINATION ACCURACY

ST 2394.7 SR 463.0 SS 2878.3
 CRT -.9309 CRS .9369 CST -.9998
 LSA 3769.0 MSA 166.6 SSA 12.5
 EL1 2433.4 EL2 166.4 ALF 169.75

LAUNCH DATE NOV 21 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 535.523

RL 147.77 LAL .00 LOL 58.75 VL 27.886 GAL 6.28 AZL 87.50 MCA 234.42 SMA 130.29 ECC .17252 INC 2.4991 V1 30.151
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.664 GAP 3.09 A2P 91.45 TAL 146.90 TAP 21.33 RCA 107.81 APO 152.77 V2 34.795
 RC 92.449 GL 16.08 GP 13.64 ZAL 38.88 ZAP 123.82 ETS 9.47 ZAE 135.78 ETE 165.72 ZAC 79.92 ETC 167.77 CLP-124.94

PLANETOCENTRIC CONIC

C3 19.033 VHL 4.363 OLA 23.75 RAL 14.70 RAD 6567.8 VEL 11.850 PTH 2.10 VHP 3.521 DPA 4.78 RAP 345.18 ECC 1.3132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 1 3056.12 -27.62 100.50 243.77 83.50 5 31 57 2456.1 -28.23 91.88
 90.00 23 55 47 3993.19 -6.59 160.40 237.07 62.40 25 2 20 3393.2 -10.23 153.61
 100.00 6 21 31 2732.12 -29.57 76.87 243.99 85.42 7 7 3 2132.1 -29.89 68.08
 100.00 1 1 55 3792.43 -4.87 144.70 236.13 60.47 2 5 7 3192.4 -8.76 138.08
 110.00 8 7 54 2399.26 -34.18 51.81 244.20 90.07 8 47 54 1799.3 -33.80 42.58
 110.00 1 32 0 3698.05 -0.95 135.11 233.69 55.83 2 33 38 3098.1 -5.42 128.89

DIFFERENTIAL CORRECTIONS

TDE 1.7967 TRA 2.5889 TC3-1.8890 BAU .4905
 RDE -.1809 RRA -.7040 RC3 .3849 FAU .09769
 FDE 6.2451 FRA 9.4020 FC3-4.4435 BSP 14457
 BDE 1.8058 BRA 2.6829 BC3 1.9278 FSP -5019

MID-COURSE EXECUTION ACCURACY

SGT 4699.2 SGR 1090.6 SG3 1404.6
 RRT -.9495 RRF -.9518 RTF .9929
 SGB 4824.1 R23 .0137 R13 -.9933
 SG1 4812.5 SG2 334.3 THA 167.51

ORBIT DETERMINATION ACCURACY

ST 2610.0 SR 385.1 SS 2782.5
 CRT -.8940 CRS .9014 CST -.9998
 LSA 3830.6 MSA 171.9 SSA 12.5
 EL1 2632.8 EL2 171.1 ALF 172.45

LAUNCH DATE NOV 21 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 541.676

RL 147.77 LAL .00 LOL 58.75 VL 27.878 GAL 6.43 AZL 87.42 MCA 237.58 SMA 130.24 ECC .17448 INC 2.5818 V1 30.151
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.655 GAP 3.51 A2P 91.38 TAL 146.49 TAP 24.08 RCA 107.51 APO 152.96 V2 34.791
 RC 94.840 GL 16.33 GP 12.60 ZAL 38.64 ZAP 127.80 ETS 10.05 ZAE 133.56 ETE 167.58 ZAC 79.38 ETC 167.69 CLP-128.91

PLANETOCENTRIC CONIC

C3 19.696 VHL 4.438 OLA 24.12 RAL 14.95 RAD 6567.8 VEL 11.878 PTH 2.11 VHP 3.666 DPA 3.52 RAP 344.87 ECC 1.3241
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 15 3084.29 -27.39 102.52 244.72 82.51 5 27 39 2484.3 -28.14 93.94
 90.00 0 6 26 3981.22 -6.97 159.72 238.02 62.48 1 12 47 3381.2 -10.60 152.92
 100.00 6 17 41 2757.26 -29.42 78.73 244.99 84.45 7 3 38 2157.3 -29.88 69.95
 100.00 1 7 41 3783.48 -5.17 144.21 237.04 60.52 2 10 45 3183.5 -9.06 137.58
 110.00 8 5 28 2420.05 -34.17 53.43 245.30 89.11 8 45 48 1820.0 -33.92 44.20
 110.00 1 36 24 3693.46 -1.12 134.87 234.53 55.83 2 37 57 3093.5 -5.60 128.65

DIFFERENTIAL CORRECTIONS

TDE 1.9604 TRA 2.8133 TC3-1.9337 BAU .5171
 RDE -.1274 RRA -.6420 RC3 .3416 FAU .08898
 FDE 5.8713 FRA 8.8164 FC3-3.9114 BSP 15524
 BDE 1.9645 BRA 2.8857 BC3 1.9636 FSP -4673

MID-COURSE EXECUTION ACCURACY

SGT 5018.7 SGR 971.5 SG3 1296.1
 RRT -.9334 RRF -.9350 RTF .9932
 SGB 5111.9 R23 .0101 R13 -.9933
 SG1 5100.3 SG2 343.0 THA 169.71

ORBIT DETERMINATION ACCURACY

ST 2798.8 SR 318.4 SS 2677.8
 CRT -.8328 CRS .8424 CST -.9998
 LSA 3882.5 MSA 176.9 SSA 12.5
 EL1 2811.4 EL2 175.5 ALF 174.57

LAUNCH DATE NOV 21 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 547.803

RL 147.77 LAL .00 LOL 58.75 VL 27.870 GAL 6.60 AZL 87.34 MCA 240.75 SMA 130.18 ECC .17669 INC 2.6588 V1 30.151
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.645 GAP 3.94 A2P 91.30 TAL 146.05 TAP 26.80 RCA 107.18 APO 153.18 V2 34.788
 RC 97.236 GL 16.51 GP 11.65 ZAL 38.35 ZAP 131.50 ETS 10.55 ZAE 131.50 ETE 169.07 ZAC 79.10 ETC 167.57 CLP-132.58

PLANETOCENTRIC CONIC

C3 20.434 VHL 4.520 OLA 24.43 RAL 15.25 RAD 6567.8 VEL 11.909 PTH 2.12 VHP 3.828 DPA 2.45 RAP 344.78 ECC 1.3363
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 24 3110.66 -27.14 104.41 245.76 81.59 5 24 14 2510.7 -28.02 95.86
 90.00 0 12 43 3972.38 -7.24 159.22 239.06 62.55 1 18 55 3372.4 -10.87 152.41
 100.00 6 14 42 2780.81 -29.25 80.46 246.07 83.56 7 1 3 2180.8 -29.84 71.70
 100.00 1 13 5 3777.46 -5.37 143.87 238.04 60.55 2 16 3 3177.5 -9.25 137.24
 110.00 8 3 44 2439.69 -34.14 54.96 246.48 88.20 8 44 24 1839.7 -34.01 45.72
 110.00 1 40 33 3691.34 -1.20 134.76 235.45 55.84 2 42 4 3091.3 -5.68 128.54

DIFFERENTIAL CORRECTIONS

TDE 2.1152 TRA 3.0308 TC3-1.9581 BAU .5413
 RDE -.0780 RRA -.5880 RC3 .3034 FAU .08041
 FDE 5.4981 FRA 8.2574 FC3-3.4070 BSP 16510
 BDE 2.1166 BRA 3.0873 BC3 1.9814 FSP -4329

MID-COURSE EXECUTION ACCURACY

SGT 5303.1 SGR 869.0 SG3 1191.5
 RRT -.9124 RRF -.9132 RTF .9932
 SGB 5373.8 R23 .0074 R13 -.9933
 SG1 5362.3 SG2 351.8 THA 171.46

ORBIT DETERMINATION ACCURACY

ST 2965.2 SR 264.9 SS 2571.6
 CRT -.7338 CRS .7461 CST -.9998
 LSA 3929.7 MSA 181.7 SSA 12.5
 EL1 2971.6 EL2 179.5 ALF 176.24

LAUNCH DATE NOV 21 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 553.902

RL 147.77 LAL .00 LOL 58.75 VL 27.860 GAL 6.78 AZL 87.27 MCA 243.91 SMA 130.11 ECC .17918 INC 2.7312 V1 30.151
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.636 GAP 4.36 A2P 91.20 TAL 145.58 TAP 29.49 RCA 106.79 APO 153.42 V2 34.786
 RC 99.636 GL 16.62 GP 10.80 ZAL 38.02 ZAP 134.93 ETS 10.99 ZAE 129.63 ETE 170.27 ZAC 79.05 ETC 167.43 CLP-135.97

PLANETOCENTRIC CONIC

C3 21.255 VHL 4.610 OLA 24.69 RAL 15.61 RAD 6567.9 VEL 11.943 PTH 2.13 VHP 4.004 DPA 1.58 RAP 344.89 ECC 1.3498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 29 25 3135.36 -26.88 106.18 246.87 80.75 5 21 40 2535.4 -27.89 97.65
 90.00 0 18 33 3966.56 -7.43 158.89 240.17 62.60 1 24 39 3366.6 -11.04 152.07
 100.00 6 12 31 2802.94 -29.07 82.08 247.23 82.72 6 59 14 2202.9 -29.78 73.34
 100.00 1 18 7 3774.21 -5.48 143.69 239.11 60.57 2 21 2 3174.2 -9.36 137.06
 110.00 8 2 39 2458.36 -34.09 56.42 247.74 87.34 8 43 37 1858.4 -34.08 47.18
 110.00 1 44 29 3691.56 -1.20 134.77 236.45 55.84 2 46 0 3091.6 -5.67 128.55

DIFFERENTIAL CORRECTIONS

TDE 2.2619 TRA 3.2431 TC3-1.9650 BAU .5636
 RDE -.0323 RRA -.5409 RC3 .2700 FAU .07231
 FDE 5.1362 FRA 7.7318 FC3-2.9452 BSP 17418
 BDE 2.2622 BRA 3.2879 BC3 1.9835 FSP -3996

MID-COURSE EXECUTION ACCURACY

SGT 5555.4 SGR 781.6 SG3 1092.8
 RRT -.8856 RRF -.8857 RTF .9931
 SGB 5610.1 R23 .0054 R13 -.9932
 SG1 5598.5 SG2 360.2 THA 172.87

ORBIT DETERMINATION ACCURACY

ST 3110.6 SR 225.7 SS 2466.3
 CRT -.5819 CRS .5972 CST -.9998
 LSA 3971.8 MSA 186.1 SSA 12.5
 EL1 3113.4 EL2 183.4 ALF 177.57

LAUNCH DATE NOV 21 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 15 1969

MELIOCENTRIC CONIC
 RL 147.77 LAL .00 LOL 58.75 VL 27.849 GAL 6.98 AZL 87.20 MCA 247.07 SMA 130.03 ECC .18194 INC 2.7998 V1 30.151
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.627 GAP 4.80 AZP 91.09 TAL 145.08 TAP 32.15 RCA 106.37 APO 153.69 V2 34.784
 RC 102.038 GL 16.67 GP 10.04 ZAL 37.65 ZAP 138.12 ETS 11.41 ZAE 127.93 ETE 171.25 ZAC 79.23 ETC 167.29 CLP-139.12

PLANETOCENTRIC CONIC
 C3 22.166 VHL 4.708 DLA 24.90 RAL 16.01 RAD 6567.9 VEL 11.981 PTH 2.14 VHP 4.195 DPA .88 RAP 345.20 ECC 1.3648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 15 3158.50 -26.62 107.82 248.07 79.96 5 19 54 2558.5 -27.73 99.33
 90.00 0 23 56 3963.69 -7.52 158.72 241.34 62.62 1 30 0 3363.7 -11.13 151.91
 100.00 6 11 5 2823.78 -28.88 83.60 248.48 81.94 6 58 8 2223.8 -29.70 74.89
 100.00 1 22 48 3773.65 -5.50 143.66 240.24 60.57 2 25 42 3173.6 -9.38 137.02
 110.00 8 2 10 2476.21 -34.03 57.81 249.09 86.52 8 43 26 1876.2 -34.13 48.57
 110.00 1 48 12 3693.99 -1.10 134.90 237.52 55.83 2 49 46 3094.0 -5.58 128.67

DIFFERENTIAL CORRECTIONS
 TDE 2.4029 TRA 3.4542 TC3-1.9537 BAU .5833 SGT 5780.5 SGR 707.9 SG3 1001.1 ST 3238.4 SR 201.7 SS 2364.8
 RDE .0100 RRA -.4998 RC3 .2405 FAU .06457 RRT -.8526 RRF -.8520 RTF .9929 CRT -.3744 CRS .3925 CST -.9998
 FDE 4.7946 FRA 7.2484 FC3-2.5219 BSP 18234 SGB 5823.7 R23 .0038 R13 -.9929 LSA 4010.5 MSA 190.2 SSA 12.6
 BOE 2.4029 BRA 3.4901 BC3 1.9685 FSP -3677 SG1 5812.1 SG2 367.9 THA 174.02 EL1 3239.3 EL2 186.9 ALF 178.66

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 21 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 17 1969

MELIOCENTRIC CONIC
 RL 147.77 LAL .00 LOL 58.75 VL 27.838 GAL 7.20 AZL 87.13 MCA 250.23 SMA 129.95 ECC .18500 INC 2.8652 V1 30.151
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.617 GAP 5.23 AZP 90.97 TAL 144.55 TAP 34.78 RCA 105.91 APO 153.99 V2 34.783
 RC 104.441 GL 16.66 GP 9.35 ZAL 37.24 ZAP 141.08 ETS 11.80 ZAE 126.40 ETE 172.05 ZAC 79.61 ETC 167.15 CLP-142.04

PLANETOCENTRIC CONIC
 C3 23.178 VHL 4.814 DLA 25.08 RAL 16.47 RAD 6567.9 VEL 12.023 PTH 2.15 VHP 4.400 DPA .34 RAP 345.68 ECC 1.3815
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 55 3180.17 -26.35 109.35 249.35 79.24 5 18 55 2580.2 -27.57 100.89
 90.00 0 28 53 3963.73 -7.51 158.73 242.59 62.62 1 34 57 3363.7 -11.13 151.91
 100.00 6 10 21 2843.46 -28.69 85.03 249.81 81.22 6 57 44 2243.5 -29.60 76.34
 100.00 1 27 8 3775.67 -5.43 143.77 241.45 60.56 2 30 4 3175.7 -9.31 137.14
 110.00 8 2 15 2493.36 -33.95 59.14 250.51 85.74 8 43 48 1893.4 -34.17 49.91
 110.00 1 51 43 3698.54 -.93 135.14 238.66 55.83 2 53 22 3098.5 -5.41 128.91

DIFFERENTIAL CORRECTIONS
 TDE 2.5401 TRA 3.6674 TC3-1.9238 BAU .5998 SGT 5982.6 SGR 646.1 SG3 917.2 ST 3351.4 SR 192.1 SS 2268.8
 RDE .0491 RRA -.4639 RC3 .2141 FAU .05712 RRT -.8129 RRF -.8115 RTF .9926 CRT -.1365 CRS .1566 CST -.9998
 FDE 4.4788 FRA 6.8102 FC3-2.1335 BSP 18918 SGB 6017.4 R23 .0024 R13 -.9926 LSA 4047.0 MSA 193.9 SSA 12.7
 BOE 2.5406 BRA 3.6966 BC3 1.9357 FSP -3366 SG1 6005.7 SG2 374.8 THA 174.96 EL1 3351.5 EL2 190.3 ALF 179.55

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 21 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 19 1969

MELIOCENTRIC CONIC
 RL 147.77 LAL .00 LOL 58.75 VL 27.825 GAL 7.44 AZL 87.07 MCA 253.39 SMA 129.86 ECC .18837 INC 2.9281 V1 30.151
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.608 GAP 5.68 AZP 90.84 TAL 144.00 TAP 37.39 RCA 105.40 APO 154.32 V2 34.783
 RC 106.844 GL 16.61 GP 8.74 ZAL 36.79 ZAP 143.83 ETS 12.20 ZAE 125.01 ETE 172.72 ZAC 80.18 ETC 167.02 CLP-144.76

PLANETOCENTRIC CONIC
 C3 24.302 VHL 4.930 DLA 25.22 RAL 16.96 RAD 6568.0 VEL 12.070 PTH 2.16 VHP 4.618 DPA -.06 RAP 346.33 ECC 1.3999
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 20 3200.45 -26.09 110.77 250.72 78.57 5 18 41 2600.4 -27.40 102.35
 90.00 0 33 23 3966.61 -7.42 158.89 243.89 62.60 1 39 30 3366.6 -11.04 152.08
 100.00 6 10 17 2862.07 -28.49 86.38 251.22 80.53 6 58 0 2262.1 -29.50 77.72
 100.00 1 31 7 3780.22 -5.28 144.03 242.72 60.53 2 34 7 3180.2 -9.16 137.39
 110.00 8 2 51 2509.92 -33.86 60.43 252.02 84.98 8 44 41 1909.9 -34.18 51.20
 110.00 1 55 3 3705.13 -.68 135.48 239.86 55.82 2 56 48 3105.1 -5.16 129.26

DIFFERENTIAL CORRECTIONS
 TDE 2.6702 TRA 3.8802 TC3-1.8849 BAU .6156 SGT 6159.1 SGR 594.5 SG3 839.9 ST 3445.5 SR 194.3 SS 2174.3
 RDE .0861 RRA -.4318 RC3 .1913 FAU .05058 RRT -.7662 RRF -.7640 RTF .9922 CRT .0918 CRS -.0709 CST -.9998
 FDE 4.1802 FRA 6.4061 FC3-1.8019 BSP 19593 SGB 6187.7 R23 .0012 R13 -.9922 LSA 4074.0 MSA 197.4 SSA 12.7
 BOE 2.6716 BRA 3.9041 BC3 1.8946 FSP -3092 SG1 6175.9 SG2 380.9 THA 175.75 EL1 3445.5 EL2 193.5 ALF .30

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 21 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 21 1969

MELIOCENTRIC CONIC
 RL 147.77 LAL .00 LOL 58.75 VL 27.812 GAL 7.71 AZL 87.01 MCA 256.55 SMA 129.77 ECC .19206 INC 2.9889 V1 30.151
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.599 GAP 6.14 AZP 90.70 TAL 143.43 TAP 39.98 RCA 104.84 APO 154.69 V2 34.784
 RC 109.246 GL 16.52 GP 8.19 ZAL 36.32 ZAP 146.40 ETS 12.60 ZAE 123.77 ETE 173.27 ZAC 80.90 ETC 166.89 CLP-147.30

PLANETOCENTRIC CONIC
 C3 25.550 VHL 5.055 DLA 25.32 RAL 17.49 RAD 6568.0 VEL 12.121 PTH 2.17 VHP 4.848 DPA -.32 RAP 347.11 ECC 1.4205
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 31 3219.40 -25.82 112.10 252.17 77.96 5 19 10 2619.4 -27.22 103.71
 90.00 0 37 26 3972.31 -7.25 159.21 245.25 62.55 1 43 38 3372.3 -10.87 152.41
 100.00 6 10 52 2879.73 -28.28 87.65 252.71 79.89 6 58 52 2279.7 -29.39 79.02
 100.00 1 34 46 3787.21 -5.04 144.41 244.05 60.50 2 37 53 3187.2 -8.93 137.79
 110.00 8 3 56 2526.00 -33.75 61.67 253.60 84.25 8 46 2 1926.0 -34.18 52.46
 110.00 1 58 12 3713.71 -.35 135.93 241.13 55.82 3 0 5 3113.7 -4.83 129.71

DIFFERENTIAL CORRECTIONS
 TDE 2.7966 TRA 4.0968 TC3-1.8345 BAU .6293 SGT 6315.1 SGR 551.6 SG3 769.4 ST 3525.2 SR 204.5 SS 2084.5
 RDE .1210 RRA -.4031 RC3 .1710 FAU .04459 RRT -.7127 RRF -.7097 RTF .9918 CRT .2785 CRS -.2578 CST -.9997
 FDE 3.9053 FRA 6.0403 FC3-1.5109 BSP 20211 SGB 6339.1 R23 .0001 R13 -.9918 LSA 4095.6 MSA 200.5 SSA 12.8
 BOE 2.7992 BRA 4.1165 BC3 1.8424 FSP -2841 SG1 6327.3 SG2 386.1 THA 176.42 EL1 3525.7 EL2 196.4 ALF .93

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 21 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 583.931

RL 147.77 LAL .00 LOL 58.75 VL 27.798 GAL 7.99 AZL 86.95 HCA 259.71 SMA 129.67 ECC .19610 INC 3.0482 V1 30.151
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.589 GAP 6.61 AZP 90.54 TAL 142.83 TAP 42.54 RCA 104.24 APO 155.09 V2 34.785
 RC 111.645 GL 16.38 GP 7.69 ZAL 35.81 ZAP 148.80 ETS 13.03 ZAE 122.65 ETE 173.74 ZAC 81.78 ETC 166.79 CLP-149.67

PLANETOCENTRIC CONIC

C3 26.936 VHL 5.190 DLA 25.39 RAL 18.05 RAD 6568.1 VEL 12.178 PTH 2.19 VHP 5.093 DPA -.47 RAP 348.02 ECC 1.4433
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 26 24 3237.11 -25.57 113.33 253.70 77.39 5 20 21 2637.1 -27.05 104.98
 90.00 0 41 2 3980.78 -6.98 159.69 246.67 62.49 1 47 23 3380.8 -10.61 152.90
 100.00 6 12 3 2896.52 -28.08 88.85 254.28 79.29 7 0 19 2296.5 -29.27 80.25
 100.00 1 38 4 3796.60 -4.73 144.93 245.44 60.45 2 41 21 3196.6 -8.63 138.32
 110.00 8 5 27 2541.68 -33.64 62.88 255.26 83.54 8 47 49 1941.7 -34.17 53.68
 110.00 2 1 9 3724.20 .05 136.48 242.47 55.82 3 3 13 3124.2 -4.43 130.26

DIFFERENTIAL CORRECTIONS

TDE 2.9205 TRA 4.3199 TC3-1.7729 BAU .6408
 RDE .1542 RRA -.3770 RC3 .1527 FAU .03907
 FDE 3.6538 FRA 5.7112 FC3-1.2558 BSP 20757
 BOE 2.9246 BRA 4.3363 BC3 1.7794 FSP -2609

MID-COURSE EXECUTION ACCURACY

SGT 6453.6 SGR 516.1 SG3 705.5
 RRT -.6530 RRF -.6491 RTF .9914
 SCB 6474.2 R23 -.0009 R13 -.9914
 SG1 6462.4 SG2 390.3 THA 177.00

ORBIT DETERMINATION ACCURACY

ST 3592.5 SR 219.3 SS 1999.7
 CRT .4184 CRS -.3983 CST -.9997
 LSA 4112.4 MSA 203.3 SSA 12.8
 EL1 3593.7 EL2 199.1 ALF 1.47

LAUNCH DATE NOV 21 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 589.828

RL 147.77 LAL .00 LOL 58.75 VL 27.783 GAL 8.30 AZL 86.89 HCA 262.87 SMA 129.56 ECC .20050 INC 3.1063 V1 30.151
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.580 GAP 7.09 AZP 90.39 TAL 142.22 TAP 45.09 RCA 103.58 APO 155.54 V2 34.787
 RC 114.042 GL 16.21 GP 7.25 ZAL 35.27 ZAP 151.06 ETS 13.50 ZAE 121.64 ETE 174.14 ZAC 82.78 ETC 166.69 CLP-151.91

PLANETOCENTRIC CONIC

C3 28.479 VHL 5.337 DLA 25.43 RAL 18.64 RAD 6568.1 VEL 12.241 PTH 2.20 VHP 5.351 DPA -.52 RAP 349.04 ECC 1.4687
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 58 3253.67 -25.31 114.48 255.31 76.87 5 22 12 2653.7 -26.87 106.16
 90.00 0 44 11 3991.95 -6.63 160.33 248.14 62.41 1 50 43 3392.0 -10.27 153.54
 100.00 6 13 47 2912.53 -27.87 90.00 255.93 78.72 7 2 19 2312.5 -29.14 81.43
 100.00 1 41 3 3808.32 -4.33 145.58 246.88 60.39 2 44 31 3208.3 -8.24 138.97
 110.00 8 7 24 2557.05 -33.52 64.07 256.99 82.85 8 50 1 1957.1 -34.14 54.88
 110.00 2 3 55 3736.57 .53 137.12 243.86 55.82 3 6 12 3136.6 -3.96 130.91

DIFFERENTIAL CORRECTIONS

TDE 3.0430 TRA 4.5508 TC3-1.7020 BAU .6501
 RDE .1859 RRA -.3530 RC3 .1362 FAU .03403
 FDE 3.4246 FRA 5.4151 FC3-1.0344 BSP 21256
 BOE 3.0487 BRA 4.5645 BC3 1.7075 FSP -2398

MID-COURSE EXECUTION ACCURACY

SGT 6576.1 SGR 486.9 SG3 647.6
 RRT -.5878 RRF -.5831 RTF .9910
 SCB 6594.1 R23 -.0019 R13 -.9910
 SG1 6582.4 SG2 393.5 THA 177.50

ORBIT DETERMINATION ACCURACY

ST 3648.5 SR 236.1 SS 1920.0
 CRT .5198 CRS -.5006 CST -.9997
 LSA 4124.5 MSA 205.7 SSA 12.7
 EL1 3650.5 EL2 201.5 ALF 1.93

LAUNCH DATE NOV 21 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 595.681

RL 147.77 LAL .00 LOL 58.75 VL 27.768 GAL 8.64 AZL 86.84 HCA 266.03 SMA 129.46 ECC .20531 INC 3.1636 V1 30.151
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.572 GAP 7.59 AZP 90.22 TAL 141.59 TAP 47.62 RCA 102.88 APO 156.03 V2 34.790
 RC 116.435 GL 16.00 GP 6.85 ZAL 34.72 ZAP 153.18 ETS 14.01 ZAE 120.73 ETE 174.49 ZAC 83.89 ETC 166.61 CLP-154.01

PLANETOCENTRIC CONIC

C3 30.197 VHL 5.495 DLA 25.45 RAL 19.26 RAD 6568.2 VEL 12.311 PTH 2.22 VHP 5.623 DPA -.47 RAP 350.17 ECC 1.4970
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 11 3269.18 -25.07 115.55 257.00 76.38 5 24 40 2669.2 -26.70 107.26
 90.00 0 46 53 4005.77 -6.19 161.11 249.65 62.31 1 53 39 3405.8 -9.85 154.34
 100.00 6 16 3 2927.87 -27.66 91.09 257.65 78.18 7 4 51 2327.9 -29.01 82.55
 100.00 1 43 42 3822.31 -3.86 146.35 248.38 60.34 2 47 24 3222.3 -7.78 139.76
 110.00 8 9 44 2572.18 -33.38 65.23 258.80 82.18 8 52 36 1972.2 -34.10 56.06
 110.00 2 6 30 3750.76 1.07 137.86 245.30 55.83 3 9 1 3150.8 -3.42 131.66

DIFFERENTIAL CORRECTIONS

TDE 3.1677 TRA 4.7944 TC3-1.6199 BAU .6558
 RDE .2165 RRA -.3305 RC3 .1209 FAU .02925
 FDE 3.2196 FRA 5.1528 FC3-1.8385 BSP 21639
 BOE 3.1751 BRA 4.8058 BC3 1.6244 FSP -2198

MID-COURSE EXECUTION ACCURACY

SGT 6687.7 SGR 462.9 SG3 595.6
 RRT -.5181 RRF -.5125 RTF .9906
 SCB 6703.7 R23 -.0029 R13 -.9906
 SG1 6692.0 SG2 395.7 THA 177.94

ORBIT DETERMINATION ACCURACY

ST 3697.3 SR 253.1 SS 1847.1
 CRT .5932 CRS -.5749 CST -.9997
 LSA 4135.5 MSA 207.7 SSA 12.7
 EL1 3700.3 EL2 203.6 ALF 2.33

LAUNCH DATE NOV 21 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 601.486

RL 147.77 LAL .00 LOL 58.75 VL 27.752 GAL 9.01 AZL 86.78 HCA 269.19 SMA 129.34 ECC .21054 INC 3.2205 V1 30.151
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.563 GAP 8.10 AZP 90.05 TAL 140.95 TAP 50.14 RCA 102.11 APO 156.58 V2 34.794
 RC 118.823 GL 15.77 GP 6.49 ZAL 34.14 ZAP 155.19 ETS 14.58 ZAE 119.90 ETE 174.79 ZAC 85.11 ETC 166.53 CLP-156.00

PLANETOCENTRIC CONIC

C3 32.114 VHL 5.667 DLA 25.43 RAL 19.89 RAD 6568.3 VEL 12.389 PTH 2.24 VHP 5.910 DPA -.33 RAP 351.38 ECC 1.5285
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 33 0 3283.72 -24.83 116.55 258.76 75.94 5 27 43 2683.7 -26.52 108.29
 90.00 0 49 9 4022.17 -5.67 162.03 251.22 62.21 1 56 11 3422.2 -9.35 155.28
 100.00 6 18 48 2942.60 -27.45 92.14 259.45 77.67 7 7 51 2342.6 -28.87 83.62
 100.00 1 46 2 3838.52 -3.32 147.24 249.92 60.28 2 50 0 3238.5 -7.25 140.66
 110.00 8 12 25 2587.14 -33.24 66.37 260.68 81.52 8 55 32 1987.1 -34.05 57.23
 110.00 2 8 54 3766.75 1.68 138.70 246.81 55.85 3 11 41 3166.8 -2.81 132.49

DIFFERENTIAL CORRECTIONS

TDE 3.2893 TRA 5.0463 TC3-1.5347 BAU .6605
 RDE .2463 RRA -.3089 RC3 .1073 FAU .02506
 FDE 3.0294 FRA 4.9142 FC3 -.6755 BSP 22043
 BOE 3.2985 BRA 5.0557 BC3 1.5384 FSP -2023

MID-COURSE EXECUTION ACCURACY

SGT 6782.5 SGR 443.2 SG3 548.0
 RRT -.4447 RRF -.4385 RTF .9902
 SCB 6796.9 R23 -.0038 R13 -.9902
 SG1 6785.3 SG2 396.8 THA 178.33

ORBIT DETERMINATION ACCURACY

ST 3733.0 SR 269.8 SS 1776.7
 CRT .6476 CRS -.6301 CST -.9997
 LSA 4137.7 MSA 209.4 SSA 12.7
 EL1 3737.1 EL2 205.4 ALF 2.69

LAUNCH DATE NOV 22 1968

FLIGHT TIME 70.00

ARRIVAL DATE JAN 31 1969

HELIOCENTRIC CONIC

DISTANCE 123.981

RL 147.74 LAL .00 LOL 59.76 VL 14.381 GAL 37.18 AZL 88.49 MCA 29.19 SMA 83.48 ECC .86102 INC 1.5133 V1 30.157
 RP 107.67 LAP .74 LOP 88.95 VP 29.590 GAP -57.90 AZP 88.68 TAL 172.60 TAP 201.80 RCA 11.60 APO 155.36 V2 35.198
 RC 98.647 GL .83 GP -.99 ZAL 64.24 ZAP 38.05 ETS 176.58 ZAE 128.90 ETE 183.96 ZAC 43.91 ETC 155.98 CLP 38.03

PLANETOCENTRIC CONIC

C3 431.328 VHL 20.768 OLA -1.01 RAL 355.57 RAD 6572.2 VEL 23.508 PTH 3.29 VHP 31.627 DPA -22.04 RAP 310.29 ECC 8.0986
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 6 36 2795.65 -28.17 81.51 261.17 92.97 7 53 11 2195.7 -27.46 72.91
 90.00 18 49 40 5502.28 28.31 255.03 262.26 89.32 20 21 22 4902.3 27.92 246.39
 100.00 8 27 28 2534.78 -29.75 62.23 261.08 93.11 9 9 43 1934.8 -29.00 53.50
 100.00 20 11 28 5238.39 29.88 235.61 262.23 89.22 21 38 47 4638.4 29.45 226.83
 110.00 9 34 38 2324.53 -34.02 45.98 260.79 93.52 10 13 23 1724.5 -33.16 36.84
 110.00 21 20 48 5021.40 34.17 219.05 262.15 88.92 22 44 29 4421.4 33.64 209.85

DIFFERENTIAL CORRECTIONS

TOE -.9948 TRA-2.3342 TC3 -.1054 BAU .6088
 RDE -1.4680 RRA .7835 RC3 -.0054 FAU .01034
 FDE .3854 FRA .7744 FC3 -.0207 BSP 1939
 BOE 1.7733 BRA 2.4622 BC3 .1056 FSP -44

MID-COURSE EXECUTION ACCURACY

SGT 825.8 SGR 459.6 SG3 21.9
 RRT -.0483 RRF .0433 RTF -.6159
 SGB 945.1 R23 -.0002 R13 .6160
 SG1 826.2 SG2 458.8 THA 177.77

ORBIT DETERMINATION ACCURACY

ST 335.9 SR 410.1 SS 339.3
 CRT .7159 CRS .7638 CST .9957
 LSA 588.0 MSA 224.0 SSA 14.1
 EL1 492.9 EL2 195.1 ALF 52.84

LAUNCH DATE NOV 22 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 2 1969

HELIOCENTRIC CONIC

DISTANCE 129.097

RL 147.74 LAL .00 LOL 59.76 VL 15.214 GAL 35.24 AZL 88.28 MCA 32.43 SMA 84.80 ECC .83699 INC 1.7230 V1 30.157
 RP 107.64 LAP .92 LOP 92.18 VP 30.014 GAP -55.37 AZP 88.55 TAL 171.66 TAP 204.09 RCA 13.82 APO 155.77 V2 35.206
 RC 96.423 GL 1.07 GP -1.01 ZAL 62.80 ZAP 36.50 ETS 176.55 ZAE 128.62 ETE 184.28 ZAC 45.49 ETC 156.70 CLP 36.49

PLANETOCENTRIC CONIC

C3 397.796 VHL 19.945 OLA -.22 RAL 356.79 RAD 6572.1 VEL 22.784 PTH 3.27 VHP 30.540 DPA -21.68 RAP 312.08 ECC 7.5467
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 5 38 2812.43 -28.23 82.73 262.23 92.36 7 52 30 2212.4 -27.60 74.12
 90.00 19 0 23 5470.18 28.26 252.69 262.46 88.14 20 31 33 4870.2 27.70 244.07
 100.00 8 26 52 2550.37 -29.80 63.38 262.15 92.50 9 9 23 1950.4 -29.13 54.64
 100.00 20 21 50 5207.47 29.83 233.31 262.40 88.01 21 48 37 4607.5 29.24 224.55
 110.00 9 34 53 2337.49 -34.07 46.99 261.91 92.92 10 13 50 1737.5 -33.29 37.83
 110.00 21 30 18 4993.11 34.11 216.84 262.21 87.61 22 53 32 4393.1 33.40 207.67

DIFFERENTIAL CORRECTIONS

TOE -1.0024 TRA-2.3597 TC3 -.1126 BAU .5995
 RDE -1.4265 RRA .7665 RC3 -.0062 FAU .01032
 FDE .4019 FRA .8029 FC3 -.0225 BSP 2123
 BOE 1.7435 BRA 2.4811 BC3 .1127 FSP -49

MID-COURSE EXECUTION ACCURACY

SGT 862.6 SGR 465.9 SG3 23.6
 RRT -.0500 RRF .0448 RTF -.6343
 SGB 980.4 R23 -.0001 R13 .6344
 SG1 863.0 SG2 465.0 THA 177.82

ORBIT DETERMINATION ACCURACY

ST 352.8 SR 415.1 SS 355.3
 CRT .7142 CRS .7648 CST .9955
 LSA 608.1 MSA 230.1 SSA 14.4
 EL1 505.6 EL2 202.7 ALF 51.44

LAUNCH DATE NOV 22 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 4 1969

HELIOCENTRIC CONIC

DISTANCE 134.358

RL 147.74 LAL .00 LOL 59.76 VL 16.001 GAL 33.49 AZL 88.10 MCA 35.67 SMA 86.15 ECC .81242 INC 1.8985 V1 30.157
 RP 107.61 LAP 1.11 LOP 95.41 VP 30.430 GAP -52.98 AZP 88.46 TAL 170.71 TAP 206.38 RCA 16.16 APO 156.14 V2 35.214
 RC 94.200 GL 1.32 GP -1.04 ZAL 61.41 ZAP 34.99 ETS 176.52 ZAE 128.40 ETE 184.62 ZAC 47.11 ETC 157.38 CLP 34.98

PLANETOCENTRIC CONIC

C3 367.078 VHL 19.159 OLA .56 RAL 357.97 RAD 6572.0 VEL 22.099 PTH 3.24 VHP 29.488 DPA -21.29 RAP 313.88 ECC 7.0412
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 33 2828.52 -28.27 83.91 263.20 91.77 7 51 41 2228.5 -27.72 75.28
 90.00 19 10 51 5437.92 28.17 250.33 262.60 86.97 20 41 29 4837.9 27.45 241.74
 100.00 8 26 9 2565.30 -29.84 64.49 263.14 91.92 9 8 54 1965.3 -29.25 55.74
 100.00 20 31 56 5176.37 29.74 231.00 262.50 86.80 21 58 13 4576.4 28.97 222.28
 110.00 9 34 59 2349.83 -34.11 47.95 262.95 92.35 10 14 9 1749.8 -33.41 38.78
 110.00 21 39 35 4964.61 34.01 214.62 262.20 86.30 23 2 20 4364.6 33.12 205.50

DIFFERENTIAL CORRECTIONS

TOE -1.0123 TRA-2.3882 TC3 -.1201 BAU .5906
 RDE -1.3847 RRA .7486 RC3 -.0072 FAU .01030
 FDE .4190 FRA .8320 FC3 -.0243 BSP 2260
 BOE 1.7152 BRA 2.5028 BC3 .1203 FSP -54

MID-COURSE EXECUTION ACCURACY

SGT 902.0 SGR 471.5 SG3 25.4
 RRT -.0512 RRF .0462 RTF -.6523
 SGB 1017.8 R23 -.0002 R13 .6524
 SG1 902.4 SG2 470.7 THA 177.89

ORBIT DETERMINATION ACCURACY

ST 371.1 SR 419.5 SS 371.7
 CRT .7128 CRS .7659 CST .9953
 LSA 629.3 MSA 236.0 SSA 14.6
 EL1 519.1 EL2 210.4 ALF 49.89

LAUNCH DATE NOV 22 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 6 1969

HELIOCENTRIC CONIC

DISTANCE 139.756

RL 147.74 LAL .00 LOL 59.76 VL 16.745 GAL 31.89 AZL 87.95 MCA 38.91 SMA 87.53 ECC .78752 INC 2.0485 V1 30.157
 RP 107.59 LAP 1.29 LOP 98.65 VP 30.836 GAP -50.72 AZP 88.41 TAL 169.76 TAP 208.67 RCA 18.60 APO 156.47 V2 35.222
 RC 91.981 GL 1.58 GP -1.06 ZAL 60.07 ZAP 33.50 ETS 176.48 ZAE 128.23 ETE 184.98 ZAC 48.76 ETC 158.02 CLP 33.49

PLANETOCENTRIC CONIC

C3 338.894 VHL 18.409 OLA 1.33 RAL 359.09 RAD 6571.9 VEL 21.452 PTH 3.21 VHP 28.470 DPA -20.88 RAP 315.71 ECC 6.5773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 3 19 2843.95 -28.29 85.04 264.08 91.20 7 50 43 2243.9 -27.83 76.40
 90.00 19 21 5 5405.45 28.03 247.97 262.66 85.79 20 51 11 4805.4 27.15 239.41
 100.00 8 25 17 2579.57 -29.86 65.55 264.04 91.36 9 8 17 1979.6 -29.36 56.79
 100.00 20 41 49 5145.06 29.59 228.68 262.53 85.59 22 7 34 4545.1 28.67 220.00
 110.00 9 34 57 2361.52 -34.14 48.86 263.90 91.81 10 14 18 1761.5 -33.51 39.67
 110.00 21 48 38 4935.88 33.86 212.39 262.11 84.99 23 10 54 4335.9 32.79 203.32

DIFFERENTIAL CORRECTIONS

TOE -1.0224 TRA-2.4173 TC3 -.1280 BAU .5811
 RDE -1.3427 RRA .7296 RC3 -.0083 FAU .01029
 FDE .4365 FRA .8616 FC3 -.0263 BSP 2396
 BOE 1.6876 BRA 2.5250 BC3 .1283 FSP -59

MID-COURSE EXECUTION ACCURACY

SGT 943.2 SGR 476.6 SG3 27.3
 RRT -.0523 RRF .0474 RTF -.6697
 SGB 1056.8 R23 -.0004 R13 .6698
 SG1 943.7 SG2 475.7 THA 177.97

ORBIT DETERMINATION ACCURACY

ST 390.4 SR 423.4 SS 388.5
 CRT .7114 CRS .7670 CST .9951
 LSA 651.2 MSA 241.6 SSA 14.8
 EL1 533.1 EL2 217.9 ALF 48.25

LAUNCH DATE NOV 22 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 8 1969

HELIOCENTRIC CONIC

DISTANCE 145.283

RL 147.74 LAL .00 LOL 59.76 VL 17.448 GAL 30.41 AZL 87.82 MCA 42.15 SMA 88.94 ECC .76245 INC 2.1789 V1 30.157
 RP 107.57 LAP 1.46 LOP 101.89 VP 31.231 GAP -48.57 AZP 88.38 TAL 168.81 TAP 210.96 RCA 21.13 APO 156.76 V2 35.229
 RC 89.765 GL 1.85 GP -1.09 ZAL 58.78 ZAP 32.03 ETS 176.43 ZAE 128.14 ETE 185.35 ZAC 50.44 ETC 158.63 CLP 32.02

PLANETOCENTRIC CONIC

C3 312.999 VHL 17.692 DLA 2.10 RAL .18 RAD 6571.8 VEL 20.840 PTH 3.18 VHP 27.484 DPA -20.45 RAP 317.54 ECC 6.1512
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 1 58 2858.71 -28.31 86.11 264.88 90.66 7 49 37 2258.7 -27.92 77.47
 90.00 19 31 6 5372.73 27.84 245.59 262.66 84.61 21 0 38 4772.7 26.80 237.08
 100.00 8 24 17 2593.19 -29.88 66.56 264.86 90.83 9 7 30 1993.2 -29.45 57.79
 100.00 20 51 28 5113.49 29.41 226.36 262.49 84.37 22 16 41 4513.5 28.32 217.72
 110.00 9 34 46 2372.57 -34.16 49.72 264.77 91.30 10 14 19 1772.6 -33.60 40.52
 110.00 21 57 28 4906.87 33.66 210.15 261.96 83.68 23 19 15 4306.9 32.42 201.14

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0326 TRA-2.4466 TC3 -.1361 BAU .5709 SGT 986.1 SGR 481.1 SG3 29.3 ST 410.6 SR 426.8 SS 405.6
 RDE-1.3004 RRA .7098 RC3 -.0096 FAU .01029 RRT -.0532 RRF .0485 RTF -.6865 CRT .7101 CRS .7679 CST .9949
 FDE .4543 FRA .8917 FC3 -.0285 BSP 2539 SGB 1097.2 R23 -.0006 R13 .6866 LSA 673.8 MSA 246.9 SSA 15.0
 BOE 1.6605 BRA 2.5475 BC3 .1364 FSP -64 SGI 986.5 SG2 480.2 TMA 178.05 EL1 547.7 EL2 225.3 ALF 46.56

LAUNCH DATE NOV 22 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 10 1969

HELIOCENTRIC CONIC

DISTANCE 150.930

RL 147.74 LAL .00 LOL 59.76 VL 18.111 GAL 29.04 AZL 87.71 MCA 45.39 SMA 90.37 ECC .73735 INC 2.2939 V1 30.157
 RP 107.55 LAP 1.63 LOP 105.13 VP 31.613 GAP -46.52 AZP 88.39 TAL 167.87 TAP 213.26 RCA 23.74 APO 157.01 V2 35.235
 RC 87.555 GL 2.14 GP -1.12 ZAL 57.53 ZAP 30.59 ETS 176.37 ZAE 128.10 ETE 185.74 ZAC 52.14 ETC 159.21 CLP 30.57

PLANETOCENTRIC CONIC

C3 289.181 VHL 17.005 DLA 2.86 RAL 1.22 RAD 6571.7 VEL 20.261 PTH 3.15 VHP 26.528 DPA -20.00 RAP 319.40 ECC 5.7592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 0 28 2872.83 -28.32 87.15 265.60 90.15 7 48 21 2272.8 -28.00 78.50
 90.00 19 40 53 5339.72 27.61 243.20 262.59 83.44 21 9 53 4739.7 26.41 234.74
 100.00 8 23 8 2606.17 -29.89 67.53 265.59 90.32 9 6 34 2006.2 -29.53 58.74
 100.00 21 0 54 5081.62 29.17 224.02 262.38 83.16 22 25 35 4481.6 27.92 215.44
 110.00 9 34 26 2383.00 -34.17 50.54 265.54 90.82 10 14 9 1783.0 -33.68 41.33
 110.00 22 6 5 4877.55 33.42 207.90 261.75 82.36 23 27 22 4277.5 32.00 198.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0426 TRA-2.4757 TC3 -.1444 BAU .5599 SGT 1030.6 SGR 484.9 SG3 31.5 ST 431.7 SR 429.6 SS 423.0
 RDE-1.2581 RRA .6892 RC3 -.0109 FAU .01030 RRT -.0540 RRF .0496 RTF -.7026 CRT .7087 CRS .7689 CST .9947
 FDE .4724 FRA .9224 FC3 -.0308 BSP 2692 SGB 1139.0 R23 -.0009 R13 .7027 LSA 697.3 MSA 251.9 SSA 15.2
 BOE 1.6339 BRA 2.5698 BC3 .1448 FSP -70 SGI 1031.0 SG2 484.0 TMA 178.13 EL1 562.9 EL2 232.4 ALF 44.80

LAUNCH DATE NOV 22 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 156.691

RL 147.74 LAL .00 LOL 59.76 VL 18.737 GAL 27.75 AZL 87.60 MCA 48.63 SMA 91.81 ECC .71237 INC 2.3968 V1 30.157
 RP 107.53 LAP 1.80 LOP 108.37 VP 31.982 GAP -44.58 AZP 88.42 TAL 166.93 TAP 215.57 RCA 26.41 APO 157.22 V2 35.240
 RC 85.353 GL 2.43 GP -1.15 ZAL 56.33 ZAP 29.16 ETS 176.29 ZAE 128.13 ETE 186.14 ZAC 53.87 ETC 159.76 CLP 29.14

PLANETOCENTRIC CONIC

C3 267.254 VHL 16.348 DLA 3.61 RAL 2.21 RAD 6571.6 VEL 19.712 PTH 3.12 VHP 25.600 DPA -19.52 RAP 321.26 ECC 5.3983
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 58 49 2886.32 -28.32 88.13 266.23 89.65 7 46 55 2286.3 -28.06 79.48
 90.00 19 50 28 5306.37 27.32 240.80 262.45 82.27 21 18 54 4706.4 25.97 232.40
 100.00 8 21 50 2618.51 -29.89 68.45 266.24 89.84 9 5 29 2018.5 -29.59 59.66
 100.00 21 10 7 5049.41 28.89 221.66 262.20 81.96 22 34 16 4449.4 27.47 213.15
 110.00 9 33 57 2392.80 -34.18 51.30 266.23 90.37 10 13 50 1792.8 -33.75 42.09
 110.00 22 14 29 4847.88 33.13 205.63 261.47 81.05 23 35 17 4247.9 31.54 196.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0526 TRA-2.5045 TC3 -.1530 BAU .5484 SGT 1077.0 SGR 488.1 SG3 33.9 ST 453.8 SR 431.8 SS 440.9
 RDE-1.2157 RRA .6679 RC3 -.0124 FAU .01034 RRT -.0547 RRF .0505 RTF -.7182 CRT .7074 CRS .7698 CST .9945
 FDE .4911 FRA .9537 FC3 -.0335 BSP 2850 SGB 1182.4 R23 -.0011 R13 .7182 LSA 721.6 MSA 256.5 SSA 15.4
 BOE 1.6081 BRA 2.5921 BC3 .1535 FSP -76 SGI 1077.4 SG2 487.1 TMA 178.21 EL1 579.0 EL2 239.2 ALF 42.99

LAUNCH DATE NOV 22 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 162.559

RL 147.74 LAL .00 LOL 59.76 VL 19.328 GAL 26.55 AZL 87.51 MCA 51.88 SMA 93.26 ECC .68760 INC 2.4899 V1 30.157
 RP 107.52 LAP 1.96 LOP 111.61 VP 32.337 GAP -42.72 AZP 88.46 TAL 166.01 TAP 217.88 RCA 29.14 APO 157.39 V2 35.245
 RC 83.158 GL 2.74 GP -1.19 ZAL 55.18 ZAP 27.76 ETS 176.20 ZAE 128.22 ETE 186.57 ZAC 55.63 ETC 160.28 CLP 27.73

PLANETOCENTRIC CONIC

C3 247.052 VHL 15.718 DLA 4.35 RAL 3.16 RAD 6571.4 VEL 19.193 PTH 3.09 VHP 24.700 DPA -19.03 RAP 323.13 ECC 5.0658
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 57 0 2899.21 -28.31 89.08 266.77 89.18 7 45 19 2299.2 -28.12 80.42
 90.00 19 59 51 5272.63 26.99 238.39 262.25 81.10 21 27 44 4672.6 25.48 230.05
 100.00 8 20 23 2630.25 -29.89 69.32 266.79 89.38 9 4 13 2030.2 -29.65 60.52
 100.00 21 19 9 5016.82 28.55 219.30 261.97 80.76 22 42 46 4416.8 26.98 210.85
 110.00 9 33 19 2402.00 -34.18 52.02 266.82 89.94 10 13 21 1802.0 -33.81 42.80
 110.00 22 22 42 4817.84 32.79 203.35 261.12 79.74 23 43 0 4217.8 31.03 194.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0620 TRA-2.5324 TC3 -.1617 BAU .5361 SGT 1124.9 SGR 490.5 SG3 36.4 ST 476.7 SR 433.5 SS 459.1
 RDE-1.1732 RRA .6460 RC3 -.0141 FAU .01039 RRT -.0553 RRF .0514 RTF -.7331 CRT .7061 CRS .7707 CST .9943
 FDE .5102 FRA .9856 FC3 -.0364 BSP 3024 SGB 1227.2 R23 -.0014 R13 .7332 LSA 746.8 MSA 260.7 SSA 15.6
 BOE 1.5825 BRA 2.6135 BC3 .1623 FSP -83 SGI 1125.3 SG2 489.6 TMA 178.29 EL1 595.7 EL2 245.7 ALF 41.16

LAUNCH DATE NOV 22 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 19.886 GAL 25.41 AZL 87.42 HCA 55.12 SMA 94.72 ECC .66315 INC 2.5752 VI 30.157
 RP 107.51 LAP 2.11 LOP 114.86 VP 32.678 GAP -40.94 AZP 88.53 TAL 165.09 TAP 220.21 RCA 31.91 APO 157.53 V2 35.249
 RC 80.975 GL 3.06 GP -1.23 ZAL 54.07 ZAP 26.37 ETS 176.08 ZAE 128.38 ETE 187.02 ZAC 57.40 ETC 160.77 CLP 26.34

DISTANCE 168.527

PLANETOCENTRIC CONIC

C3 228.427 VHL 15.114 DLA 5.10 RAL 4.06 RAD 6571.3 VEL 18.701 PTH 3.06 VHP 23.825 DPA -18.51 RAP 325.01 ECC 4.7593
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 55 1 2911.51 -28.29 89.98 267.22 88.73 7 43 32 2311.5 -28.17 81.31
 90.00 20 9 3 5238.47 26.61 235.96 261.99 79.94 21 36 21 4638.5 24.95 227.69
 100.00 8 18 45 2641.40 -29.88 70.15 267.26 88.94 9 2 47 2041.4 -29.70 61.35
 100.00 21 27 59 4983.82 28.17 216.92 261.67 79.56 22 51 3 4383.8 26.44 208.55
 110.00 9 32 30 2410.59 -34.18 52.69 267.33 89.55 10 12 41 1810.6 -33.87 43.46
 110.00 22 30 44 4787.39 32.40 201.06 260.72 78.44 23 50 31 4187.4 30.46 192.38

DIFFERENTIAL CORRECTIONS

TDE-1.0715 TRA-2.5596 TC3 -.1706 BAU .5232
 RDE-1.1307 RRA .6235 RC3 -.0159 FAU .01045
 FDE .5299 FRA 1.0182 FC3 -.0396 BSP 3201
 BOE 1.5578 BRA 2.6344 BC3 .1713 FSP -90

MID-COURSE EXECUTION ACCURACY

SGT 1174.7 SGR 492.3 SG3 39.1
 RRT -.0557 RRF .0521 RTF -.7474
 SGB 1273.7 R23 -.0017 R13 .7475
 SGI 1175.1 SG2 491.4 THA 178.38

ORBIT DETERMINATION ACCURACY

ST 500.7 SR 434.5 SS 477.8
 CRT .7049 CRS .7716 CST .9940
 LSA 773.1 MSA 264.4 SSA 15.7
 EL1 613.3 EL2 251.6 ALF 39.30

LAUNCH DATE NOV 22 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 20.412 GAL 24.33 AZL 87.35 HCA 58.37 SMA 96.17 ECC .63909 INC 2.6539 VI 30.157
 RP 107.50 LAP 2.26 LOP 118.10 VP 33.004 GAP -39.24 AZP 88.61 TAL 164.19 TAP 222.56 RCA 34.71 APO 157.64 V2 35.253
 RC 78.802 GL 3.40 GP -1.27 ZAL 53.00 ZAP 25.00 ETS 175.93 ZAE 128.61 ETE 187.49 ZAC 59.20 ETC 161.24 CLP 24.97

DISTANCE 174.588

PLANETOCENTRIC CONIC

C3 211.249 VHL 14.534 DLA 5.83 RAL 4.93 RAD 6571.2 VEL 18.236 PTH 3.02 VHP 22.975 DPA -17.98 RAP 326.90 ECC 4.4766
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 52 51 2923.26 -28.27 90.84 267.59 88.30 7 41 34 2323.3 -28.21 82.17
 90.00 20 18 5 5203.84 26.17 233.52 261.66 78.79 21 44 48 4603.8 24.36 225.32
 100.00 8 16 57 2651.99 -29.86 70.94 267.64 88.53 9 1 9 2052.0 -29.74 62.13
 100.00 21 36 39 4950.35 27.73 214.53 261.31 78.37 22 59 10 4350.3 25.85 206.24
 110.00 9 31 32 2418.61 -34.17 53.32 267.74 89.18 10 11 50 1818.6 -33.91 44.08
 110.00 22 38 35 4756.49 31.95 198.76 260.25 77.15 23 57 51 4156.5 29.85 190.18

DIFFERENTIAL CORRECTIONS

TDE-1.0801 TRA-2.5851 TC3 -.1795 BAU .5094
 RDE-1.0884 RRA .6007 RC3 -.0179 FAU .01054
 FDE .5502 FRA 1.0516 FC3 -.0432 BSP 3404
 BOE 1.5335 BRA 2.6540 BC3 .1804 FSP -99

MID-COURSE EXECUTION ACCURACY

SGT 1225.9 SGR 493.4 SG3 42.0
 RRT -.0561 RRF .0528 RTF -.7611
 SGB 1321.5 R23 -.0019 R13 .7612
 SGI 1226.3 SG2 492.5 THA 178.46

ORBIT DETERMINATION ACCURACY

ST 525.3 SR 434.9 SS 497.0
 CRT .7036 CRS .7725 CST .9938
 LSA 800.2 MSA 267.7 SSA 15.9
 EL1 631.7 EL2 257.0 ALF 37.45

LAUNCH DATE NOV 22 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 20.908 GAL 23.31 AZL 87.27 HCA 61.61 SMA 97.62 ECC .61548 INC 2.7274 VI 30.157
 RP 107.49 LAP 2.40 LOP 121.35 VP 33.316 GAP -37.61 AZP 88.70 TAL 163.30 TAP 224.92 RCA 37.54 APO 157.71 V2 35.255
 RC 76.644 GL 3.75 GP -1.32 ZAL 51.98 ZAP 23.64 ETS 175.75 ZAE 128.91 ETE 187.98 ZAC 61.01 ETC 161.68 CLP 23.61

DISTANCE 180.737

PLANETOCENTRIC CONIC

C3 195.401 VHL 13.979 DLA 6.57 RAL 5.74 RAD 6571.1 VEL 17.797 PTH 2.99 VHP 22.150 DPA -17.42 RAP 328.79 ECC 4.2158
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 50 30 2934.50 -28.24 91.66 267.87 87.89 7 39 25 2334.5 -28.24 82.99
 90.00 20 26 57 5168.70 25.69 231.07 261.28 77.65 21 53 5 4568.7 23.73 222.94
 100.00 8 14 58 2662.05 -29.84 71.68 267.93 88.14 8 59 20 2062.0 -29.78 62.88
 100.00 21 45 10 4916.38 27.24 212.12 260.89 77.20 23 7 6 4316.4 25.21 203.91
 110.00 9 30 22 2426.09 -34.17 53.90 268.07 88.83 10 10 48 1826.1 -33.95 44.66
 110.00 22 46 15 4725.11 31.45 196.45 259.74 75.86 24 5 0 4125.1 29.19 187.98

DIFFERENTIAL CORRECTIONS

TDE-1.0919 TRA-2.6126 TC3 -.1891 BAU .4969
 RDE-1.0460 RRA .5775 RC3 -.0201 FAU .01063
 FDE .5717 FRA 1.0863 FC3 -.0471 BSP 3535
 BOE 1.5121 BRA 2.6757 BC3 .1902 FSP -107

MID-COURSE EXECUTION ACCURACY

SGT 1281.3 SGR 493.7 SG3 45.2
 RRT -.0557 RRF .0532 RTF -.7742
 SGB 1373.2 R23 -.0026 R13 .7742
 SGI 1281.7 SG2 492.8 THA 178.56

ORBIT DETERMINATION ACCURACY

ST 552.4 SR 434.7 SS 517.1
 CRT .7030 CRS .7735 CST .9936
 LSA 829.5 MSA 270.4 SSA 16.0
 EL1 652.3 EL2 261.8 ALF 35.51

LAUNCH DATE NOV 22 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 21.376 GAL 22.33 AZL 87.20 HCA 64.86 SMA 99.07 ECC .59240 INC 2.7965 VI 30.157
 RP 107.48 LAP 2.53 LOP 124.60 VP 33.614 GAP -36.04 AZP 88.81 TAL 162.44 TAP 227.30 RCA 40.38 APO 157.75 V2 35.257
 RC 74.503 GL 4.11 GP -1.37 ZAL 51.01 ZAP 22.30 ETS 175.53 ZAE 129.29 ETE 188.51 ZAC 62.84 ETC 162.10 CLP 22.26

DISTANCE 186.967

PLANETOCENTRIC CONIC

C3 180.781 VHL 13.445 DLA 7.30 RAL 6.52 RAD 6570.9 VEL 17.381 PTH 2.96 VHP 21.348 DPA -16.85 RAP 330.69 ECC 3.9752
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 57 2945.26 -28.21 92.44 268.06 87.49 7 37 2 2345.3 -28.26 83.78
 90.00 20 35 40 5133.01 25.14 228.59 260.84 76.53 22 1 13 4533.0 23.04 220.55
 100.00 8 12 47 2671.62 -29.82 72.39 268.14 87.76 8 57 19 2071.6 -29.81 63.59
 100.00 21 53 30 4881.89 26.70 209.70 260.42 76.03 23 14 52 4281.9 24.52 201.59
 110.00 9 29 2 2433.04 -34.15 54.45 268.30 88.51 10 9 35 1833.0 -33.98 45.20
 110.00 22 53 46 4693.23 30.90 194.13 259.17 74.59 24 11 59 4093.2 28.48 185.77

DIFFERENTIAL CORRECTIONS

TDE-1.1115 TRA-2.6469 TC3 -.2007 BAU .4881
 RDE-1.0039 RRA .5542 RC3 -.0225 FAU .01068
 FDE .5951 FRA 1.1231 FC3 -.0512 BSP 3481
 BOE 1.4977 BRA 2.7043 BC3 .2020 FSP -113

MID-COURSE EXECUTION ACCURACY

SGT 1344.9 SGR 493.3 SG3 48.6
 RRT -.0535 RRF .0530 RTF -.7863
 SGB 1432.5 R23 -.0044 R13 .7864
 SGI 1345.2 SG2 492.5 THA 178.70

ORBIT DETERMINATION ACCURACY

ST 583.9 SR 433.7 SS 538.6
 CRT .7039 CRS .7749 CST .9936
 LSA 863.0 MSA 272.3 SSA 16.3
 EL1 677.1 EL2 265.6 ALF 33.40

LAUNCH DATE NOV 22 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 193.202

RL 147.74 LAL .00 LOL 59.76 VL 21.817 GAL 21.36 AZL 87.14 HCA 68.11 SMA 100.50 ECC .56956 INC 2.8620 V1 30.157
 RP 107.48 LAP 2.66 LOP 127.85 VP 33.897 GAP -34.52 AZP 88.93 TAL 161.60 TAP 229.71 RCA 43.26 APO 157.73 V2 35.258
 RC 72.381 GL 4.50 GP -1.42 ZAL 50.12 ZAP 20.96 ETS 175.25 ZAE 129.73 ETE 189.06 ZAC 95.62 ETC 157.77 CLP 20.91

PLANETOCENTRIC CONIC

C3 166.939 VHL 12.920 DLA 8.02 RAL 7.21 RAD 6570.8 VEL 16.978 PTH 2.92 VHP 20.555 DPA -16.27 RAP 332.58 ECC 3.7474
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 7 2955.00 -28.18 93.15 268.10 87.14 7 34 22 2355.0 -28.28 84.49
 90.00 20 44 3 5096.62 24.54 226.10 260.30 75.41 22 9 0 4496.6 22.30 218.14
 100.00 8 10 20 2680.17 -29.79 73.03 268.19 87.43 8 55 0 2080.2 -29.83 64.22
 100.00 22 1 32 4846.69 26.10 207.26 259.84 74.88 23 22 18 4246.7 23.77 199.24
 110.00 9 27 24 2438.96 -34.14 54.91 268.38 88.24 10 8 3 1839.0 -34.01 45.66
 110.00 23 0 56 4660.66 30.29 191.79 256.49 73.33 24 18 37 4060.7 27.71 183.55

DIFFERENTIAL CORRECTIONS

TDE -1.2983 TRA-1.8439 TC3 -.0136 BAU .0670
 RDE -.9673 RRA .5234 RC3 -.0268 FAU .01599
 FDE .5062 FRA 1.0406 FC3 -.0829 BSP 23360
 BDE 1.0122 BRA 1.9167 BC3 .0300 FSP -357

MID-COURSE EXECUTION ACCURACY

SGT 837.0 SGR 493.7 SG3 48.6
 RRT -.3252 RRF .1030 RTF -.8701
 SGB 971.7 R23 .3127 R13 .8340
 SG1 858.6 SG2 455.1 THA 164.77

ORBIT DETERMINATION ACCURACY

ST 280.8 SR 434.7 SS 470.8
 CRT .3222 CRS .7495 CST .8676
 LSA 631.8 MSA 300.3 SSA 8.4
 EL1 448.9 EL2 257.4 ALF 72.22

LAUNCH DATE NOV 22 1968

FLIGHT TIME 96.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 199.643

RL 147.74 LAL .00 LOL 59.76 VL 22.232 GAL 20.52 AZL 87.08 HCA 71.36 SMA 101.91 ECC .54796 INC 2.9246 V1 30.157
 RP 107.48 LAP 2.77 LOP 131.10 VP 34.167 GAP -33.10 AZP 89.06 TAL 160.75 TAP 232.11 RCA 46.07 APO 157.75 V2 35.259
 RC 70.281 GL 4.90 GP -1.48 ZAL 49.21 ZAP 19.65 ETS 174.92 ZAE 130.28 ETE 189.65 ZAC 95.20 ETC 280.11 CLP 19.59

PLANETOCENTRIC CONIC

C3 154.821 VHL 12.443 DLA 8.75 RAL 7.93 RAD 6570.7 VEL 16.618 PTH 2.89 VHP 19.810 DPA -15.67 RAP 334.49 ECC 3.5480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 11 2965.54 -28.15 93.92 268.18 86.75 7 31 37 2365.5 -28.30 85.26
 90.00 20 52 42 5059.83 23.89 223.60 259.81 74.33 22 17 1 4459.8 21.51 215.73
 100.00 8 7 47 2689.45 -29.76 73.72 268.28 87.07 8 52 37 2089.5 -29.85 64.91
 100.00 22 9 47 4811.15 25.44 204.82 259.32 73.76 23 29 58 4211.1 22.97 196.90
 110.00 9 25 44 2445.52 -34.13 55.42 268.50 87.93 10 6 30 1845.5 -34.04 46.17
 110.00 23 8 19 4627.85 29.62 189.47 257.88 72.11 24 25 27 4027.8 26.89 181.35

DIFFERENTIAL CORRECTIONS

TDE -1.1129 TRA-2.6729 TC3 -.2154 BAU .4495
 RDE -.9205 RRA .5069 RC3 -.0279 FAU .01110
 FDE .6401 FRA 1.1951 FC3 -.0621 BSP 4286
 BDE 1.4443 BRA 2.7205 BC3 .2172 FSP -139

MID-COURSE EXECUTION ACCURACY

SGT 1449.4 SGR 490.2 SG3 56.0
 RRT -.0559 RRF .0544 RTF -.8102
 SGB 1530.0 R23 -.0033 R13 .8102
 SG1 1449.7 SG2 489.3 THA 178.78

ORBIT DETERMINATION ACCURACY

ST 634.4 SR 429.8 SS 579.9
 CRT .6998 CRS .7767 CST .9927
 LSA 920.5 MSA 275.5 SSA 16.4
 EL1 716.4 EL2 271.9 ALF 30.14

LAUNCH DATE NOV 22 1968

FLIGHT TIME 98.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 206.081

RL 147.74 LAL .00 LOL 59.76 VL 22.624 GAL 19.67 AZL 87.02 HCA 74.60 SMA 103.30 ECC .52668 INC 2.9848 V1 30.157
 RP 107.48 LAP 2.88 LOP 134.35 VP 34.422 GAP -31.71 AZP 89.21 TAL 159.95 TAP 234.55 RCA 48.89 APO 157.71 V2 35.259
 RC 88.209 GL 5.32 GP -1.55 ZAL 48.37 ZAP 18.34 ETS 174.51 ZAE 130.91 ETE 190.28 ZAC 94.76 ETC 280.43 CLP 18.27

PLANETOCENTRIC CONIC

C3 143.329 VHL 11.972 DLA 9.48 RAL 8.57 RAD 6570.8 VEL 16.268 PTH 2.85 VHP 19.073 DPA -15.06 RAP 336.38 ECC 3.3588
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 38 57 2975.19 -28.11 94.63 268.11 86.40 7 28 32 2375.2 -28.31 85.97
 90.00 21 1 2 5022.26 23.17 221.08 259.23 73.26 22 24 44 4422.3 20.66 213.31
 100.00 8 4 57 2697.84 -29.73 74.34 268.22 86.74 8 49 55 2097.8 -29.87 65.54
 100.00 22 17 43 4774.85 24.73 202.36 258.70 72.65 23 37 18 4174.9 22.12 194.54
 110.00 9 23 47 2451.14 -34.11 55.86 268.47 87.67 10 4 38 1851.1 -34.06 46.61
 110.00 23 15 23 4594.31 28.90 187.13 257.17 70.89 24 31 57 3994.3 26.02 179.13

DIFFERENTIAL CORRECTIONS

TDE -1.1283 TRA-2.6979 TC3 -.2262 BAU .4375
 RDE -.8793 RRA .4834 RC3 -.0309 FAU .01125
 FDE .6664 FRA 1.2351 FC3 -.0679 BSP 4342
 BDE 1.4305 BRA 2.7409 BC3 .2283 FSP -149

MID-COURSE EXECUTION ACCURACY

SGT 1516.1 SGR 487.4 SG3 60.3
 RRT -.0538 RRF .0541 RTF -.8207
 SGB 1592.5 R23 -.0049 R13 .8207
 SG1 1516.4 SG2 486.6 THA 178.90

ORBIT DETERMINATION ACCURACY

ST 667.9 SR 426.7 SS 603.4
 CRT .7006 CRS .7781 CST .9926
 LSA 957.0 MSA 275.7 SSA 16.5
 EL1 743.9 EL2 273.3 ALF 28.26

LAUNCH DATE NOV 22 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 212.576

RL 147.74 LAL .00 LOL 59.76 VL 22.993 GAL 18.86 AZL 86.96 HCA 77.85 SMA 104.67 ECC .50606 INC 3.0432 V1 30.157
 RP 107.48 LAP 2.98 LOP 137.60 VP 34.665 GAP -30.37 AZP 89.36 TAL 159.16 TAP 237.01 RCA 51.70 APO 157.64 V2 35.257
 RC 86.187 GL 5.75 GP -1.62 ZAL 47.59 ZAP 17.04 ETS 174.01 ZAE 131.63 ETE 190.96 ZAC 94.31 ETC 280.75 CLP 16.96

PLANETOCENTRIC CONIC

C3 132.722 VHL 11.521 DLA 10.21 RAL 9.16 RAD 6570.4 VEL 15.939 PTH 2.82 VHP 18.357 DPA -14.44 RAP 338.28 ECC 3.1843
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 35 27 2984.80 -28.06 95.31 267.96 86.06 7 25 12 2384.6 -28.31 86.65
 90.00 21 9 17 4984.00 22.40 218.54 258.59 72.21 22 32 21 4384.0 19.76 210.86
 100.00 8 1 51 2705.94 -29.70 74.94 268.08 86.43 8 46 57 2105.9 -29.88 66.14
 100.00 22 25 34 4737.90 23.96 199.89 258.04 71.57 23 44 32 4137.9 21.22 192.17
 110.00 9 21 36 2456.42 -34.10 56.27 268.36 87.43 10 2 32 1856.4 -34.08 47.02
 110.00 23 22 19 4560.18 28.11 184.78 256.42 69.70 24 38 19 3960.2 25.09 176.91

DIFFERENTIAL CORRECTIONS

TDE -1.1287 TRA-2.7060 TC3 -.2326 BAU .4172
 RDE -.8385 RRA .4800 RC3 -.0342 FAU .01153
 FDE .6920 FRA 1.2744 FC3 -.0752 BSP 4761
 BDE 1.4061 BRA 2.7448 BC3 .2351 FSP -164

MID-COURSE EXECUTION ACCURACY

SGT 1572.4 SGR 483.9 SG3 64.8
 RRT -.0547 RRF .0546 RTF -.8313
 SGB 1643.1 R23 -.0044 R13 .8314
 SG1 1572.6 SG2 483.1 THA 178.94

ORBIT DETERMINATION ACCURACY

ST 695.5 SR 422.8 SS 626.0
 CRT .6989 CRS .7792 CST .9922
 LSA 988.9 MSA 275.8 SSA 16.6
 EL1 766.2 EL2 274.5 ALF 26.71

LAUNCH DATE NOV 22 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 23.341 GAL 18.08 AZL 86.90 MCA 81.10 SMA 106.02 ECC .48612 INC 3.1002 V1 30.157
 RP 107.49 LAP 3.08 LOP 140.85 VP 34.894 GAP -29.08 AZP 89.52 TAL 150.40 TAP 239.50 RCA 54.48 APO 157.56 V2 35.256
 RC 64.161 GL 6.21 GP -1.70 ZAL 46.85 ZAP 15.74 ETS 175.38 ZAE 132.44 ETE 191.68 ZAC 93.84 ETC 281.05 CLP 15.65

PLANETOCENTRIC CONIC

C3 122.942 VHL 11.088 DLA 10.94 RAL 9.71 RAD 6570.3 VEL 15.629 PTH 2.78 VHP 17.660 DPA -13.81 RAP 340.17 ECC 3.0233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 41 2993.86 -28.02 95.98 267.73 85.73 7 21 35 2393.9 -28.32 87.33
 90.00 21 17 26 4945.01 21.57 215.98 257.92 71.19 22 39 52 4345.0 18.80 208.40
 100.00 7 58 30 2713.85 -29.66 75.52 267.86 86.12 8 43 44 2113.8 -29.88 66.73
 100.00 22 33 18 4700.26 23.12 197.40 257.34 70.51 23 51 39 4100.3 20.26 189.78
 110.00 9 19 10 2461.43 -34.08 56.66 268.16 87.20 10 0 11 1861.4 -34.09 47.41
 110.00 23 29 8 4525.44 27.27 182.43 255.63 68.54 24 44 33 3925.4 24.11 174.69

DIFFERENTIAL CORRECTIONS

TDE-1.1356 TRA-2.7185 TC3 -.2406 BAU .4002
 RDE -.7981 RRA .4369 RC3 -.0377 FAU .01179
 FDE .7201 FRA 1.3163 FC3 -.0830 B8P 5031
 BDE 1.3880 BRA 2.7533 BC3 .2435 F8P -179

MID-COURSE EXECUTION ACCURACY

SGT 1835.8 SGR 479.5 SCS 69.8
 RRT -.0541 RRF .0547 RTF -.8412
 SGB 1704.7 R23 -.0050 R13 .8412
 SGI 1636.1 SGT 478.7 THA 179.01

ORBIT DETERMINATION ACCURACY

ST 727.2 SR 418.1 SS 650.4
 CRT .6988 CR3 .7805 CST .9919
 LSA 1025.1 MSA 275.1 SSA 16.7
 EL1 792.7 EL2 274.5 ALF 25.10

LAUNCH DATE NOV 22 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 23.667 GAL 17.34 AZL 86.84 MCA 84.35 SMA 107.34 ECC .46687 INC 3.1562 V1 30.157
 RP 107.50 LAP 3.14 LOP 144.10 VP 35.111 GAP -27.83 AZP 89.69 TAL 157.66 TAP 242.01 RCA 57.22 APO 157.45 V2 35.253
 RC 62.196 GL 6.69 GP -1.79 ZAL 46.16 ZAP 14.46 ETS 172.58 ZAE 135.35 ETE 192.46 ZAC 93.36 ETC 281.34 CLP 14.35

PLANETOCENTRIC CONIC

C3 113.925 VHL 10.674 DLA 11.67 RAL 10.22 RAD 6570.2 VEL 15.338 PTH 2.75 VHP 16.984 DPA -13.17 RAP 342.06 ECC 2.8749
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 27 36 3003.08 -27.97 96.65 267.41 85.40 7 17 40 2403.1 -28.32 88.00
 90.00 21 25 32 4905.28 20.67 213.41 257.22 70.21 22 47 18 4305.3 17.79 205.92
 100.00 7 54 52 2721.64 -29.63 76.10 267.56 85.82 8 40 14 2121.6 -29.89 67.30
 100.00 22 40 58 4661.91 22.23 194.91 256.60 69.49 23 58 40 4061.9 19.24 187.39
 110.00 9 16 29 2466.23 -34.07 57.03 267.89 86.98 9 57 36 1866.2 -34.11 47.79
 110.00 23 35 50 4490.09 26.37 180.08 254.81 67.42 24 50 40 3890.1 23.08 172.47

DIFFERENTIAL CORRECTIONS

TDE-1.1448 TRA-2.7306 TC3 -.2487 BAU .3840
 RDE -.7582 RRA .4141 RC3 -.0414 FAU .01207
 FDE .7504 FRA 1.3603 FC3 -.0917 B8P 5255
 BDE 1.3729 BRA 2.7618 BC3 .2521 F8P -195

MID-COURSE EXECUTION ACCURACY

SGT 1702.8 SGR 474.3 SCS 75.1
 RRT -.0529 RRF .0548 RTF -.8504
 SGB 1767.7 R23 -.0060 R13 .8503
 SGI 1703.0 SGT 473.6 THA 179.08

ORBIT DETERMINATION ACCURACY

ST 761.2 SR 412.7 SS 676.1
 CRT .6989 CR3 .7820 CST .9917
 LSA 1063.8 MSA 275.6 SSA 16.7
 EL1 821.5 EL2 273.5 ALF 23.51

LAUNCH DATE NOV 22 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 23.975 GAL 16.63 AZL 86.78 MCA 87.59 SMA 108.62 ECC .44832 INC 3.2115 V1 30.157
 RP 107.51 LAP 3.21 LOP 147.35 VP 35.316 GAP -28.63 AZP 89.87 TAL 156.96 TAP 244.55 RCA 59.93 APO 157.32 V2 35.250
 RC 60.278 GL 7.19 GP -1.88 ZAL 45.52 ZAP 13.18 ETS 171.58 ZAE 134.37 ETE 193.31 ZAC 92.87 ETC 281.62 CLP 13.05

PLANETOCENTRIC CONIC

C3 105.818 VHL 10.277 DLA 12.41 RAL 10.88 RAD 6570.0 VEL 15.065 PTH 2.71 VHP 16.326 DPA -12.53 RAP 343.95 ECC 2.7382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 23 13 3012.30 -27.92 97.32 267.02 85.06 7 13 25 2412.3 -28.31 88.68
 90.00 21 33 35 4864.72 19.72 210.82 258.47 69.25 22 54 40 4264.7 16.72 203.43
 100.00 7 50 56 2729.42 -29.59 76.67 267.18 85.52 8 36 25 2129.4 -29.89 67.88
 100.00 22 48 34 4622.83 21.28 192.39 255.83 68.49 24 5 37 4022.8 18.17 184.98
 110.00 9 13 33 2470.91 -34.05 57.40 267.53 86.77 9 54 44 1870.9 -34.12 48.15
 110.00 23 42 26 4454.11 25.41 177.72 253.96 68.32 24 56 40 3854.1 21.99 170.24

DIFFERENTIAL CORRECTIONS

TDE-1.1527 TRA-2.7393 TC3 -.2580 BAU .3671
 RDE -.7188 RRA .3917 RC3 -.0454 FAU .01239
 FDE .7825 FRA 1.4061 FC3 -.1015 B8P 5505
 BDE 1.3585 BRA 2.7672 BC3 .2600 F8P -212

MID-COURSE EXECUTION ACCURACY

SGT 1770.7 SGR 468.3 SCS 81.0
 RRT -.0520 RRF .0550 RTF -.8593
 SGB 1831.6 R23 -.0070 R13 .8593
 SGI 1770.9 SGT 467.6 THA 179.15

ORBIT DETERMINATION ACCURACY

ST 795.8 SR 406.3 SS 703.0
 CRT .6992 CR3 .7835 CST .9915
 LSA 1103.9 MSA 271.6 SSA 16.8
 EL1 851.3 EL2 271.6 ALF 22.00

LAUNCH DATE NOV 22 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 24.264 GAL 15.95 AZL 86.73 MCA 90.84 SMA 109.88 ECC .43048 INC 3.2668 V1 30.157
 RP 107.52 LAP 3.27 LOP 150.60 VP 35.509 GAP -25.47 AZP 90.05 TAL 156.28 TAP 247.11 RCA 62.58 APO 157.18 V2 35.246
 RC 58.412 GL 7.72 GP -1.99 ZAL 44.94 ZAP 11.91 ETS 170.29 ZAE 135.50 ETE 194.24 ZAC 92.36 ETC 281.89 CLP 11.75

PLANETOCENTRIC CONIC

C3 97.982 VHL 9.898 DLA 13.16 RAL 11.09 RAD 6569.9 VEL 14.809 PTH 2.68 VHP 15.688 DPA -11.88 RAP 345.83 ECC 2.6122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 29 3021.71 -27.86 98.01 266.55 84.73 7 8 50 2421.7 -28.30 89.37
 90.00 21 41 37 4823.35 18.70 208.21 255.71 68.34 23 2 0 4223.4 15.59 200.91
 100.00 7 46 40 2737.29 -29.54 77.26 266.72 85.22 8 32 17 2137.3 -29.89 68.47
 100.00 22 56 7 4583.00 20.26 189.87 255.03 67.54 24 12 30 3983.0 17.04 182.56
 110.00 9 10 19 2475.55 -34.03 57.76 267.10 86.55 9 51 34 1875.5 -34.13 48.52
 110.00 23 48 57 4417.51 24.38 175.37 253.09 65.27 25 2 35 3817.5 20.84 168.01

DIFFERENTIAL CORRECTIONS

TDE-1.1618 TRA-2.7463 TC3 -.2629 BAU .3504
 RDE -.6880 RRA .3699 RC3 -.0498 FAU .01274
 FDE .8171 FRA 1.4543 FC3 -.1126 B8P 5747
 BDE 1.3460 BRA 2.7711 BC3 .2675 F8P -230

MID-COURSE EXECUTION ACCURACY

SGT 1840.8 SGR 481.5 SCS 87.3
 RRT -.0509 RRF .0553 RTF -.8676
 SGB 1897.7 R23 -.0082 R13 .8676
 SGI 1840.9 SGT 480.8 THA 179.22

ORBIT DETERMINATION ACCURACY

ST 832.1 SR 399.1 SS 751.2
 CRT .6999 CR3 .7851 CST .9913
 LSA 1146.2 MSA 268.8 SSA 16.9
 EL1 882.9 EL2 268.7 ALF 20.55

LAUNCH DATE NOV 22 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 245.743

RL 147.74 LAL .00 LOL 59.76 VL 24.558 GAL 15.30 AZL 86.68 HCA 94.08 SMA 111.10 ECC .41335 INC 3.3217 V1 30.157
 RP 107.53 LAP 3.31 LOP 153.85 VP 35.690 GAP -24.35 AZP 90.24 TAL 155.62 TAP 249.71 RCA 65.18 APO 157.02 V2 35.241
 RC 56.605 GL 0.27 GP -2.10 ZAL 44.40 ZAP 10.65 ET8 166.61 ZAE 136.73 ETE 195.26 ZAC 91.63 ETC 262.14 CLP 10.45

PLANETOCENTRIC CONIC

C3 90.917 VHL 9.535 DLA 13.91 RAL 11.45 RAD 6569.8 VEL 14.569 PTH 2.64 VHP 15.067 DPA -11.24 RAP 347.70 ECC 2.4983
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 22 3031.41 -27.80 98.71 266.02 84.38 7 3 53 2431.4 -28.29 90.08
 90.00 21 49 38 4781.12 17.62 205.59 254.91 67.47 23 9 19 4181.1 14.41 198.38
 100.00 7 42 3 2745.37 -29.50 77.85 266.20 84.91 8 27 49 2145.4 -29.89 69.07
 100.00 23 3 38 4542.39 19.19 167.34 254.21 66.63 24 19 20 3942.4 15.66 180.12
 110.00 9 6 47 2480.26 -34.01 56.13 266.60 86.34 9 46 7 1880.3 -34.14 48.88
 110.00 23 55 23 4360.27 23.30 173.02 252.19 64.25 25 8 24 3760.3 19.65 165.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1710 TRA-2.7509 TC3 -.2692 BAU .3337
 RDE -.6416 RRA .3487 RC3 -.0540 FAU .01312
 FDE .8543 FRA 1.5049 FC3 -.1250 B8P 5905
 BDE 1.3353 BRA 2.7729 BC3 .2745 F8P -250

86T 1912.7 86R 455.8 86S 94.2
 RRT -.0499 RRF .0559 RTF -.8755
 86B 1965.6 823 -.0096 R13 .8755
 861 1912.9 862 455.2 THA 179.28

ST 869.7 SR 391.1 S8 761.0
 CRT .7008 CR8 .7868 CST .9912
 LSA 1190.6 MSA 265.4 SSA 16.9
 EL1 916.0 EL2 264.9 ALF 19.15

LAUNCH DATE NOV 22 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 252.481

RL 147.74 LAL .00 LOL 59.76 VL 24.791 GAL 14.68 AZL 86.62 HCA 97.33 SMA 112.28 ECC .39692 INC 3.3773 V1 30.157
 RP 107.53 LAP 3.35 LOP 157.10 VP 35.861 GAP -23.27 AZP 90.43 TAL 155.01 TAP 252.33 RCA 67.72 APO 156.85 V2 35.235
 RC 54.864 GL 0.84 GP -2.23 ZAL 43.91 ZAP 9.41 ET8 166.38 ZAE 136.09 ETE 196.38 ZAC 91.29 ETC 262.38 CLP 9.14

PLANETOCENTRIC CONIC

C3 84.438 VHL 9.189 DLA 14.66 RAL 11.77 RAD 6569.7 VEL 14.345 PTH 2.61 VHP 14.464 DPA -10.61 RAP 349.57 ECC 2.3896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 51 3041.55 -27.73 99.44 265.41 84.02 6 58 32 2441.5 -28.27 90.82
 90.00 21 57 41 4737.99 16.47 202.94 254.10 66.64 23 16 39 4138.0 15.17 195.82
 100.00 7 37 4 2755.80 -29.44 78.47 265.60 84.59 8 22 58 2153.8 -29.88 69.70
 100.00 23 11 8 4500.97 18.05 164.79 253.37 65.76 24 26 9 3901.0 14.62 177.67
 110.00 9 2 56 2485.14 -33.99 58.51 266.04 86.11 9 44 21 1885.1 -34.15 49.26
 110.00 0 5 42 4342.40 22.16 170.67 251.29 63.28 1 18 4 3742.4 18.40 163.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1789 TRA-2.7521 TC3 -.2742 BAU .3165
 RDE -.6042 RRA .3282 RC3 -.0587 FAU .01356
 FDE .8945 FRA 1.5582 FC3 -.1390 B8P 6242
 BDE 1.3256 BRA 2.7716 BC3 .2804 F8P -272

86T 1965.3 86R 445.3 86S 101.7
 RRT -.0495 RRF .0571 RTF -.8830
 86B 2034.8 823 -.0111 R13 .8830
 861 1965.4 862 444.8 THA 179.33

ST 908.1 SR 392.0 S8 792.3
 CRT .7017 CR8 .7885 CST .9910
 LSA 1236.8 MSA 261.4 SSA 17.0
 EL1 950.2 EL2 260.1 ALF 17.83

LAUNCH DATE NOV 22 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 259.244

RL 147.74 LAL .00 LOL 59.76 VL 25.031 GAL 14.08 AZL 86.57 HCA 100.57 SMA 113.43 ECC .38119 INC 3.4336 V1 30.157
 RP 107.53 LAP 3.38 LOP 160.35 VP 36.021 GAP -22.22 AZP 90.63 TAL 154.42 TAP 254.99 RCA 70.19 APO 156.66 V2 35.229
 RC 53.197 GL 0.45 GP -2.38 ZAL 43.48 ZAP 8.18 ET8 163.32 ZAE 139.56 ETE 197.64 ZAC 90.74 ETC 262.61 CLP 7.83

PLANETOCENTRIC CONIC

C3 78.479 VHL 8.859 DLA 15.43 RAL 12.04 RAD 6569.5 VEL 14.136 PTH 2.58 VHP 13.879 DPA -9.98 RAP 351.43 ECC 2.2916
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 53 3052.30 -27.65 100.22 264.74 83.64 6 52 45 2452.3 -28.24 91.60
 90.00 22 5 47 4693.90 15.26 200.27 253.28 65.86 23 24 1 4093.9 11.87 193.23
 100.00 7 31 41 2762.72 -29.38 79.13 264.95 84.25 8 17 44 2162.7 -29.87 70.36
 100.00 23 18 40 4458.72 16.85 182.22 252.52 64.94 24 32 59 3858.7 13.33 175.20
 110.00 8 58 44 2490.32 -33.96 58.91 265.41 85.88 9 40 15 1890.3 -34.16 49.67
 110.00 0 12 2 4303.86 20.97 168.32 250.36 62.36 1 23 46 3703.9 17.10 161.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1890 TRA-2.7504 TC3 -.2780 BAU .2992
 RDE -.5672 RRA .3086 RC3 -.0636 FAU .01404
 FDE .9380 FRA 1.6145 FC3 -.1549 B8P 6508
 BDE 1.3174 BRA 2.7677 BC3 .2852 F8P -297

86T 2059.0 86R 436.1 86S 109.9
 RRT -.0496 RRF .0590 RTF -.8801
 86B 2104.7 823 -.0129 R13 .8901
 861 2059.1 862 435.5 THA 179.37

ST 947.7 SR 372.1 S8 825.3
 CRT .7027 CR8 .7901 CST .9909
 LSA 1285.1 MSA 256.9 SSA 17.0
 EL1 985.8 EL2 254.5 ALF 16.56

LAUNCH DATE NOV 22 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 266.027

RL 147.74 LAL .00 LOL 59.76 VL 25.255 GAL 13.51 AZL 86.51 HCA 103.81 SMA 114.53 ECC .36615 INC 3.4912 V1 30.157
 RP 107.53 LAP 3.39 LOP 163.60 VP 36.171 GAP -21.21 AZP 90.83 TAL 153.86 TAP 257.67 RCA 72.60 APO 156.47 V2 35.222
 RC 51.611 GL 10.08 GP -2.54 ZAL 43.11 ZAP 6.98 ET8 159.00 ZAE 141.14 ETE 199.04 ZAC 90.17 ETC 262.82 CLP 6.50

PLANETOCENTRIC CONIC

C3 73.008 VHL 8.544 DLA 16.21 RAL 12.28 RAD 6569.4 VEL 13.941 PTH 2.54 VHP 13.311 DPA -9.36 RAP 353.28 ECC 2.2015
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 27 3063.85 -27.58 101.05 264.00 83.23 6 46 30 2463.8 -28.21 92.45
 90.00 22 13 58 4648.80 13.99 197.57 252.44 65.13 23 31 27 4048.8 10.52 190.61
 100.00 7 25 51 2772.29 -29.32 79.83 264.23 83.88 8 12 3 2172.3 -29.85 71.07
 100.00 23 26 15 4415.58 15.58 179.64 251.86 64.18 24 39 50 3815.6 11.98 172.70
 110.00 8 54 11 2495.92 -33.94 59.34 264.73 85.62 9 35 47 1895.9 -34.17 50.11
 110.00 0 18 20 4264.73 19.71 165.98 249.44 61.49 1 29 25 3664.7 15.75 159.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1981 TRA-2.7454 TC3 -.2803 BAU .2817
 RDE -.5507 RRA .2900 RC3 -.0688 FAU .01459
 FDE .9852 FRA 1.6740 FC3 -.1730 B8P 6787
 BDE 1.3104 BRA 2.7607 BC3 .2886 F8P -323

86T 2138.2 86R 426.0 86S 118.8
 RRT -.0506 RRF .0620 RTF -.8968
 86B 2175.3 823 -.0148 R13 .8969
 861 2133.3 862 425.4 THA 179.40

ST 988.2 SR 361.1 S8 860.3
 CRT .7036 CR8 .7916 CST .9908
 LSA 1335.4 MSA 251.8 SSA 17.0
 EL1 1022.4 EL2 248.0 ALF 15.34

LAUNCH DATE NOV 22 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 272.828

RL 147.74 LAL .00 LOL 59.76 VL 25.466 GAL 12.97 AZL 86.45 MCA 107.05 SMA 115.60 ECC .35180 INC 3.5503 V1 30.157
 RP 107.61 LAP 3.39 LOP 166.84 VP 36.311 GAP -20.23 AZP 91.04 TAL 153.34 TAP 260.39 RCA 74.93 APO 156.27 V2 35.215
 RC 50.116 GL 10.74 GP -2.72 ZAL 42.79 ZAP 5.84 ETS 152.70 ZAE 142.84 ETE 200.64 ZAC 89.57 ETC 283.01 CLP 5.17

PLANETOCENTRIC CONIC

C3 67.988 VHL 8.245 DLA 17.00 RAL 12.42 RAD 6569.3 VEL 13.760 PTH 2.51 VHP 12.760 DPA -8.75 RAP 355.12 ECC 2.1189
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 28 3076.41 -27.46 101.96 263.21 82.78 6 39 44 2476.4 -28.17 93.36
 90.00 22 22 17 4602.60 12.65 194.84 231.60 64.45 23 39 0 4002.6 9.11 187.95
 100.00 7 19 32 2782.72 -29.24 80.60 263.45 83.49 8 5 55 2182.7 -29.83 71.84
 100.00 23 33 54 4371.52 14.26 177.04 250.79 63.45 24 46 45 3771.5 10.58 170.18
 110.00 8 49 14 2502.10 -33.90 59.82 263.99 85.34 9 30 56 1902.1 -34.18 50.59
 110.00 0 24 38 4224.91 18.40 163.63 248.50 60.67 1 35 3 3624.9 14.35 156.86

DIFFERENTIAL CORRECTIONS

TDE-1.2090 TRA-2.7389 TC3 -.2818 BAU .2648
 RDE -.4949 RRA .2724 RC3 -.0742 FAU .01517
 FDE 1.0372 FRA 1.7375 FC3 -.1932 BSP 7039
 BDE 1.3064 BRA 2.7524 BC3 .2914 FSP -352

MID-COURSE EXECUTION ACCURACY

SGT 2209.6 SGR 415.2 SG3 128.6
 RRT -.0525 RRF .0863 RTF -.9032
 SGB 2248.3 R23 -.0172 R13 .9032
 SGI 2209.7 SGI 414.6 THA 179.41

ORBIT DETERMINATION ACCURACY

ST 1030.8 SR 349.0 SS 897.7
 CRT .7047 CRS .7929 CST .9907
 LSA 1369.0 MSA 246.1 SSA 17.0
 EL1 1061.3 EL2 240.5 ALF 14.16

LAUNCH DATE NOV 22 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 279.641

RL 147.74 LAL .00 LOL 59.76 VL 25.663 GAL 12.44 AZL 86.39 MCA 110.29 SMA 116.62 ECC .33812 INC 3.6115 V1 30.157
 RP 107.64 LAP 3.39 LOP 170.09 VP 36.442 GAP -19.28 AZP 91.25 TAL 152.85 TAP 263.14 RCA 77.19 APO 156.06 V2 35.207
 RC 48.721 GL 11.44 GP -2.92 ZAL 42.52 ZAP 4.81 ETS 143.17 ZAE 144.65 ETE 202.47 ZAC 88.96 ETC 283.20 CLP 3.82

PLANETOCENTRIC CONIC

C3 63.388 VHL 7.962 DLA 17.00 RAL 12.54 RAD 6569.2 VEL 13.592 PTH 2.48 VHP 12.226 DPA -8.17 RAP 356.95 ECC 2.0432
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 40 53 3090.25 -27.33 102.95 262.36 82.30 6 32 23 2490.2 -28.12 94.37
 90.00 22 30 47 4555.20 11.24 192.07 250.77 63.84 23 46 43 3955.2 7.63 185.25
 100.00 7 12 41 2794.22 -29.15 81.44 262.83 83.05 7 59 15 2194.2 -29.80 72.70
 100.00 23 41 41 4326.46 12.87 174.41 249.93 62.79 24 53 47 3726.5 9.12 167.63
 110.00 8 43 51 2509.01 -33.86 60.36 263.20 85.02 9 25 40 1909.0 -34.18 51.13
 110.00 0 30 56 4184.43 17.03 161.29 247.57 59.91 1 40 41 3584.4 12.91 154.61

DIFFERENTIAL CORRECTIONS

TDE-1.2196 TRA-2.7286 TC3 -.2810 BAU .2475
 RDE -.4595 RRA .2560 RC3 -.0797 FAU .01583
 FDE 1.0940 FRA 1.8049 FC3 -.2162 BSP 7314
 BDE 1.3033 BRA 2.7406 BC3 .2921 FSP -384

MID-COURSE EXECUTION ACCURACY

SGT 2285.6 SGR 403.6 SG3 139.3
 RRT -.0564 RRF .0727 RTF -.9092
 SGB 2321.0 R23 -.0198 R13 .9093
 SGI 2285.7 SGI 403.0 THA 179.41

ORBIT DETERMINATION ACCURACY

ST 1073.9 SR 335.8 SS 937.3
 CRT .7054 CRS .7939 CST .9907
 LSA 1444.6 MSA 240.0 SSA 16.9
 EL1 1101.0 EL2 232.1 ALF 13.03

LAUNCH DATE NOV 22 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 286.463

RL 147.74 LAL .00 LOL 59.76 VL 25.848 GAL 11.95 AZL 86.32 MCA 113.53 SMA 117.61 ECC .32511 INC 3.6753 V1 30.157
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.564 GAP -18.36 AZP 91.47 TAL 152.40 TAP 265.92 RCA 79.37 APO 155.84 V2 35.198
 RC 47.437 GL 12.16 GP -3.14 ZAL 42.32 ZAP 3.99 ETS 128.64 ZAE 146.56 ETE 204.58 ZAC 88.33 ETC 283.36 CLP 2.46

PLANETOCENTRIC CONIC

C3 59.177 VHL 7.693 DLA 18.62 RAL 12.60 RAD 6569.1 VEL 13.436 PTH 2.46 VHP 11.707 DPA -7.61 RAP 358.76 ECC 1.9739
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 32 39 3105.64 -27.19 104.06 261.46 81.77 6 24 24 2505.6 -28.05 95.49
 90.00 22 39 33 4506.45 9.76 189.25 249.94 63.29 23 54 39 3906.4 6.10 182.48
 100.00 7 5 15 2807.02 -29.04 82.38 261.75 82.57 7 52 2 2207.0 -29.76 73.65
 100.00 23 49 37 4280.31 11.42 171.76 249.07 62.19 25 0 58 3680.3 7.61 165.04
 110.00 8 38 0 2516.85 -33.81 60.97 262.38 84.67 9 19 56 1916.8 -34.18 51.74
 110.00 0 37 18 4143.24 15.61 158.94 246.65 59.20 1 46 21 3543.2 11.41 152.36

DIFFERENTIAL CORRECTIONS

TDE-1.2311 TRA-2.7153 TC3 -.2786 BAU .2305
 RDE -.4246 RRA .2410 RC3 -.0855 FAU .01656
 FDE 1.1565 FRA 1.8768 FC3 -.2422 BSP 7590
 BDE 1.3023 BRA 2.7260 BC3 .2914 FSP -420

MID-COURSE EXECUTION ACCURACY

SGT 2362.0 SGR 391.4 SG3 151.1
 RRT -.0626 RRF .0818 RTF -.9149
 SGB 2394.2 R23 -.0230 R13 .9149
 SGI 2362.1 SGI 390.6 THA 179.39

ORBIT DETERMINATION ACCURACY

ST 1118.4 SR 321.3 SS 979.6
 CRT .7058 CRS .7944 CST .9906
 LSA 1503.0 MSA 235.4 SSA 16.9
 EL1 1142.1 EL2 222.9 ALF 11.92

LAUNCH DATE NOV 22 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 293.292

RL 147.74 LAL .00 LOL 59.76 VL 26.021 GAL 11.47 AZL 86.26 MCA 116.76 SMA 118.55 ECC .31274 INC 3.7423 V1 30.157
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.677 GAP -17.48 AZP 91.69 TAL 151.98 TAP 268.74 RCA 81.47 APO 155.62 V2 35.189
 RC 46.274 GL 12.93 GP -3.40 ZAL 42.18 ZAP 3.57 ETS 108.26 ZAE 148.55 ETE 207.04 ZAC 87.67 ETC 283.52 CLP 1.08

PLANETOCENTRIC CONIC

C3 55.329 VHL 7.438 DLA 19.46 RAL 12.61 RAD 6569.0 VEL 13.292 PTH 2.43 VHP 11.205 DPA -7.09 RAP .57 ECC 1.9106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 23 38 3122.96 -27.01 105.29 260.52 81.17 6 15 41 2523.0 -27.96 96.75
 90.00 22 48 38 4456.16 8.21 186.37 249.13 62.80 24 2 54 3856.2 4.50 179.65
 100.00 6 57 9 2821.42 -28.91 83.43 260.83 82.03 7 44 10 2221.4 -29.71 74.71
 100.00 0 1 44 4232.93 9.90 169.06 248.22 61.65 1 12 17 3632.9 6.04 162.40
 110.00 8 31 38 2525.80 -33.76 61.66 261.51 84.26 9 13 44 1925.8 -34.18 52.44
 110.00 0 43 44 4101.31 14.14 156.59 245.73 58.55 1 52 5 3501.3 9.87 150.09

DIFFERENTIAL CORRECTIONS

TDE-1.2446 TRA-2.7002 TC3 -.2744 BAU .2140
 RDE -.3900 RRA .2274 RC3 -.0914 FAU .01735
 FDE 1.2261 FRA 1.9541 FC3 -.2714 BSP 7831
 BDE 1.3043 BRA 2.7098 BC3 .2893 FSP -459

MID-COURSE EXECUTION ACCURACY

SGT 2439.7 SGR 378.5 SG3 164.0
 RRT -.0718 RRF .0944 RTF -.9203
 SGB 2468.9 R23 -.0267 R13 .9204
 SGI 2439.8 SGI 377.5 THA 179.35

ORBIT DETERMINATION ACCURACY

ST 1165.0 SR 305.6 SS 1025.2
 CRT .7055 CRS .7941 CST .9907
 LSA 1565.3 MSA 226.5 SSA 16.8
 EL1 1185.5 EL2 212.8 ALF 10.84

LAUNCH DATE NOV 22 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 300.125

RL 147.74 LAL .00 LOL 59.76 VL 26.182 GAL 11.02 AZL 86.19 HCA 119.99 SMA 119.45 ECC .30100 INC 3.8131 V1 30.157
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.782 GAP -16.61 AZP 91.91 TAL 151.60 TAP 271.59 RCA 85.49 APO 155.40 V2 35.179
 RC 45.244 GL 13.73 GP -3.69 ZAL 42.09 ZAP 3.71 ETS 85.69 ZAE 150.60 ETE 209.95 ZAC 86.97 ETC 283.66 CLP -.33

PLANETOCENTRIC CONIC

C3 51.819 VML 7.199 DLA 20.32 RAL 12.57 RAD 6568.9 VEL 13.160 PTH 2.40 VMP 10.718 DPA -6.60 RAP 2.37 ECC 1.8528
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 45 3142.63 -26.80 106.69 259.52 80.50 6 6 8 2542.6 -27.84 98.18
 90.00 22 58 9 4404.06 6.58 183.41 248.34 62.40 24 11 33 3804.1 2.83 176.74
 100.00 6 48 18 2837.78 -28.75 84.62 259.87 81.43 7 35 35 2237.8 -29.63 75.92
 100.00 0 10 13 4184.14 8.31 166.31 247.40 61.18 1 19 57 3584.1 4.40 159.70
 110.00 8 24 43 2536.11 -33.68 62.45 260.62 83.79 9 6 59 1936.1 -34.17 55.24
 110.00 0 50 17 4058.57 12.61 154.23 244.83 57.96 1 57 56 3458.6 8.28 147.80

DIFFERENTIAL CORRECTIONS

TDE-1.2581 TRA-2.6799 TC3 -.2671 BAU .1970
 RDE -.3555 RRA .2157 RC3 -.0976 FAU .01824
 FDE 1.3028 FRA 2.0365 FC3 -.3048 BSP 8143
 BDE 1.3054 BRA 2.6886 BC3 .2844 FSP -502

MID-COURSE EXECUTION ACCURACY

SGT 2514.2 SGR 365.1 SG3 178.2
 RRT -.0866 RRF .1124 RTF -.9254
 SGB 2540.6 R23 -.0307 R13 .9255
 SG1 2514.4 SGT 365.7 THA 179.26

ORBIT DETERMINATION ACCURACY

ST 1210.5 SR 288.3 SS 1073.7
 CRT .7034 CRS .7925 CST .9907
 LSA 1628.7 MSA 219.5 SSA 16.6
 EL1 1227.8 EL2 202.0 ALF 9.78

LAUNCH DATE NOV 22 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 306.958

RL 147.74 LAL .00 LOL 59.76 VL 26.332 GAL 10.59 AZL 86.11 HCA 123.23 SMA 120.30 ECC .28988 INC 3.8887 V1 30.157
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.880 GAP -15.78 AZP 92.13 TAL 151.25 TAP 274.48 RCA 85.43 APO 155.17 V2 35.169
 RC 44.357 GL 14.58 GP -4.03 ZAL 42.08 ZAP 4.40 ETS 67.22 ZAE 152.66 ETE 213.40 ZAC 86.25 ETC 283.78 CLP -1.76

PLANETOCENTRIC CONIC

C3 48.824 VML 6.973 DLA 21.20 RAL 12.46 RAD 6568.8 VEL 13.038 PTH 2.38 VMP 10.246 DPA -6.17 RAP 4.15 ECC 1.8002
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 2 50 3165.21 -26.54 108.29 258.48 79.74 5 55 35 2565.2 -27.68 99.81
 90.00 23 8 15 4349.76 4.85 180.35 247.58 62.07 24 20 44 3749.8 1.08 173.71
 100.00 8 38 34 2856.50 -28.55 85.97 258.87 80.74 7 26 11 2256.5 -29.53 77.31
 100.00 0 19 7 4133.70 6.65 163.49 246.60 60.79 1 28 1 3533.7 2.70 156.92
 110.00 8 17 10 2548.04 -33.59 63.37 259.69 83.26 8 59 38 1948.0 -34.16 54.18
 110.00 0 57 1 4014.93 11.02 151.84 243.98 57.44 2 3 56 3414.9 6.63 145.48

DIFFERENTIAL CORRECTIONS

TDE-1.2709 TRA-2.6573 TC3 -.2579 BAU .1808
 RDE -.3211 RRA .2059 RC3 -.1039 FAU .01922
 FDE 1.3886 FRA 2.1251 FC3 -.3423 BSP 8423
 BDE 1.3109 BRA 2.6853 BC3 .2781 FSP -550

MID-COURSE EXECUTION ACCURACY

SGT 2589.3 SGR 351.5 SG3 193.9
 RRT -.1068 RRF .1369 RTF -.9302
 SGB 2613.1 R23 -.0358 R13 .9303
 SG1 2589.6 SGT 349.4 THA 179.15

ORBIT DETERMINATION ACCURACY

ST 1258.7 SR 269.4 SS 1126.0
 CRT .6998 CRS .7890 CST .9908
 LSA 1696.9 MSA 212.2 SSA 16.4
 EL1 1273.1 EL2 190.3 ALF 8.72

LAUNCH DATE NOV 22 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 313.789

RL 147.74 LAL .00 LOL 59.76 VL 26.473 GAL 10.18 AZL 86.03 HCA 126.46 SMA 121.12 ECC .27936 INC 3.9701 V1 30.157
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.970 GAP -14.97 AZP 92.36 TAL 150.94 TAP 277.40 RCA 87.28 APO 154.95 V2 35.158
 RC 43.625 GL 15.47 GP -4.41 ZAL 42.12 ZAP 5.46 ETS 54.74 ZAE 154.69 ETE 217.54 ZAC 85.48 ETC 283.90 CLP -3.23

PLANETOCENTRIC CONIC

C3 45.724 VML 6.762 DLA 22.11 RAL 12.30 RAD 6568.7 VEL 12.926 PTH 2.36 VMP 9.790 DPA -5.79 RAP 5.92 ECC 1.7525
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 39 3191.44 -26.20 110.14 257.38 78.87 5 43 51 2591.4 -27.48 101.71
 90.00 23 19 7 4292.71 3.03 177.16 246.87 61.83 24 30 40 3692.7 -.76 170.52
 100.00 6 27 49 2878.14 -28.30 87.53 257.82 79.95 7 15 47 2278.1 -29.40 78.90
 100.00 0 28 34 4081.25 4.90 160.58 245.84 60.47 1 36 36 3481.3 .93 154.04
 110.00 8 8 54 2561.92 -33.48 64.44 258.75 82.64 8 51 36 1961.9 -34.13 55.26
 110.00 1 3 59 3970.24 9.37 149.43 243.10 56.97 2 10 9 3370.2 4.96 143.12

DIFFERENTIAL CORRECTIONS

TDE-1.2873 TRA-2.6322 TC3 -.2468 BAU .1653
 RDE -.2863 RRA .1982 RC3 -.1105 FAU .02030
 FDE 1.4850 FRA 2.2207 FC3 -.3843 BSP 8680
 BDE 1.3187 BRA 2.6397 BC3 .2704 FSP -602

MID-COURSE EXECUTION ACCURACY

SGT 2664.0 SGR 337.8 SG3 211.3
 RRT -.1355 RRF .1703 RTF -.9347
 SGB 2685.3 R23 -.0420 R13 .9348
 SG1 2664.4 SGT 334.6 THA 179.00

ORBIT DETERMINATION ACCURACY

ST 1308.2 SR 248.7 SS 1182.7
 CRT .6928 CRS .7825 CST .9909
 LSA 1769.1 MSA 204.8 SSA 16.2
 EL1 1319.7 EL2 177.8 ALF 7.64

LAUNCH DATE NOV 22 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 320.616

RL 147.74 LAL .00 LOL 59.76 VL 26.604 GAL 9.79 AZL 85.94 HCA 129.68 SMA 121.89 ECC .26944 INC 4.0585 V1 30.157
 RP 107.82 LAP 3.12 LOP 189.52 VP 37.053 GAP -14.19 AZP 92.59 TAL 150.66 TAP 280.35 RCA 89.05 APO 154.73 V2 35.147
 RC 43.055 GL 16.42 GP -4.86 ZAL 42.24 ZAP 6.77 ETS 46.75 ZAE 156.63 ETE 222.50 ZAC 84.66 ETC 284.00 CLP -4.73

PLANETOCENTRIC CONIC

C3 43.102 VML 6.565 DLA 23.05 RAL 12.08 RAD 6568.6 VEL 12.824 PTH 2.33 VMP 9.349 DPA -5.48 RAP 7.68 ECC 1.7094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 55 3222.38 -25.78 112.31 256.24 77.86 5 30 38 2622.4 -27.20 103.93
 90.00 23 31 4 4232.07 1.07 173.77 246.23 61.70 24 41 36 3632.1 -2.72 167.14
 100.00 6 15 51 2903.42 -27.99 89.35 256.74 79.05 7 4 14 2303.4 -29.21 80.76
 100.00 0 38 46 4026.27 3.04 157.55 245.14 60.25 1 45 52 3426.3 -.94 151.03
 110.00 7 59 49 2578.14 -33.33 65.68 257.78 81.91 8 42 47 1978.1 -34.08 56.52
 110.00 1 11 17 3924.31 7.66 146.98 242.29 56.58 2 16 41 3324.3 3.21 140.71

DIFFERENTIAL CORRECTIONS

TDE-1.3182 TRA-2.6173 TC3 -.2453 BAU .1567
 RDE -.2511 RRA .1930 RC3 -.1176 FAU .02122
 FDE 1.5993 FRA 2.3298 FC3 -.4262 BSP 8623
 BDE 1.3419 BRA 2.6245 BC3 .2720 FSP -649

MID-COURSE EXECUTION ACCURACY

SGT 2754.9 SGR 324.6 SG3 230.9
 RRT -.1707 RRF .2133 RTF -.9385
 SGB 2775.9 R23 -.0517 R13 .9386
 SG1 2755.4 SGT 319.8 THA 178.83

ORBIT DETERMINATION ACCURACY

ST 1370.4 SR 226.0 SS 1248.2
 CRT .6822 CRS .7715 CST .9913
 LSA 1856.9 MSA 196.8 SSA 16.0
 EL1 1379.2 EL2 164.2 ALF 6.51

LAUNCH DATE NOV 22 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 327.435

RL 147.74 LAL .00 LOL 59.76 VL 26.725 GAL 9.42 AZL 85.84 HCA 132.91 SMA 122.62 ECC .26007 INC 4.1554 V1 30.157
 RP 107.86 LAP 3.04 LOP 192.75 VP 37.130 GAP -13.43 AZP 92.83 TAL 150.42 TAP 283.33 RCA 90.73 APO 154.51 V2 35.135
 RC 42.637 GL 17.42 GP -5.38 ZAL 42.43 ZAP 8.25 ETS 41.64 ZAE 158.38 ETE 228.43 ZAC 83.78 ETC 284.09 CLP 46.27

PLANETOCENTRIC CONIC

C3 40.739 VHL 6.383 DLA 24.03 RAL 11.79 RAD 6568.6 VEL 12.732 PTH 2.31 VHP 8.924 DPA -5.25 RAP 9.43 ECC 1.6705
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 21 8 3259.58 -25.22 114.89 255.01 76.68 5 15 27 2659.6 -26.81 106.58
 90.00 23 44 32 4166.43 -1.05 170.11 245.67 61.70 24 53 59 3566.4 -4.82 163.46
 100.00 6 2 19 2933.32 -27.58 91.48 255.61 78.00 6 31 13 2333.3 -28.96 82.94
 100.00 0 49 58 3967.93 1.07 154.35 244.49 60.12 1 36 6 3367.9 -2.91 147.82
 110.00 7 49 46 2597.19 -33.13 67.14 256.79 81.07 8 33 3 1997.2 -34.01 58.01
 110.00 1 19 1 3876.82 5.87 144.46 241.51 56.26 2 23 38 3276.8 1.40 138.23

DIFFERENTIAL CORRECTIONS

TDE -1.3277 TRA -2.5757 TC3 -.2201 BAU .1378
 RDE -.2144 RRA .1911 RC3 -.1247 FAU .02270
 FDE 1.7179 FRA 2.4364 FC3 -.4823 BSP 9115
 BDE 1.3449 BRA 2.5828 BC3 .2530 FSP -722

MID-COURSE EXECUTION ACCURACY

SGT 2812.1 SGR 312.5 SG3 251.8
 RRT -.2290 RRF .2756 RTF -.9429
 SGB 2829.4 R23 -.0586 R13 .9431
 SG1 2813.0 SG2 304.1 THA 178.52

ORBIT DETERMINATION ACCURACY

ST 1413.2 SR 200.6 SS 1311.7
 CRT .6583 CRS .7508 CST .9912
 LSA 1929.1 MSA 190.3 SSA 15.4
 EL1 1419.5 EL2 150.3 ALF 5.40

LAUNCH DATE NOV 22 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 334.246

RL 147.74 LAL .00 LOL 59.76 VL 26.838 GAL 9.07 AZL 85.74 HCA 136.13 SMA 123.31 ECC .25126 INC 4.2631 V1 30.157
 RP 107.89 LAP 2.95 LOP 195.97 VP 37.200 GAP -12.69 AZP 93.08 TAL 150.22 TAP 286.35 RCA 92.33 APO 154.29 V2 35.123
 RC 42.436 GL 18.48 GP -5.99 ZAL 42.70 ZAP 9.87 ETS 38.35 ZAE 159.84 ETE 235.39 ZAC 82.82 ETC 284.18 CLP -7.86

PLANETOCENTRIC CONIC

C3 38.826 VHL 6.215 DLA 25.05 RAL 11.43 RAD 6568.5 VEL 12.649 PTH 2.30 VHP 8.513 DPA -5.13 RAP 11.17 ECC 1.6357
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 29 3305.86 -24.46 118.05 253.70 75.27 4 57 35 2705.7 -26.25 109.84
 90.00 0 4 14 4093.45 -3.40 166.03 245.24 61.87 1 12 27 3493.4 -7.13 159.35
 100.00 5 48 48 2989.34 -27.05 94.02 254.41 76.76 6 36 18 2369.3 -28.60 85.56
 100.00 1 2 36 3905.00 -1.07 150.90 245.95 60.12 2 7 41 3305.0 -5.03 144.36
 110.00 7 38 33 2819.74 -32.88 68.85 255.79 80.09 8 22 13 2019.7 -33.90 59.76
 110.00 1 27 21 3827.37 3.99 141.87 240.80 56.02 2 31 8 3227.4 -5.50 135.66

DIFFERENTIAL CORRECTIONS

TDE -1.3527 TRA -2.5442 TC3 -.2050 BAU .1261
 RDE -.1760 RRA .1925 RC3 -.1325 FAU .02406
 FDE 1.8593 FRA 2.5576 FC3 -.5392 BSP 9281
 BDE 1.3641 BRA 2.5515 BC3 .2441 FSP -790

MID-COURSE EXECUTION ACCURACY

SGT 2884.9 SGR 303.0 SG3 275.4
 RRT -.3006 RRF .3541 RTF -.9466
 SGB 2900.8 R23 -.0899 R13 .9468
 SG1 2886.3 SG2 288.9 THA 178.17

ORBIT DETERMINATION ACCURACY

ST 1469.2 SR 172.7 SS 1385.4
 CRT .6180 CRS .7139 CST .9915
 LSA 2018.4 MSA 183.3 SSA 14.9
 EL1 1473.1 EL2 135.4 ALF 4.19

LAUNCH DATE NOV 22 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 341.046

RL 147.74 LAL .00 LOL 59.76 VL 26.943 GAL 8.74 AZL 85.82 HCA 139.35 SMA 123.96 ECC .24299 INC 4.3840 V1 30.157
 RP 107.93 LAP 2.85 LOP 199.20 VP 37.264 GAP -11.97 AZP 93.33 TAL 150.04 TAP 289.39 RCA 93.84 APO 154.08 V2 35.111
 RC 42.394 GL 19.62 GP -6.71 ZAL 43.04 ZAP 11.61 ETS 36.30 ZAE 160.90 ETE 243.32 ZAC 81.76 ETC 284.26 CLP -9.50

PLANETOCENTRIC CONIC

C3 36.753 VHL 6.062 DLA 26.12 RAL 10.99 RAD 6568.4 VEL 12.575 PTH 2.28 VHP 8.118 DPA -5.14 RAP 12.91 ECC 1.6049
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 30 24 3365.72 -23.36 122.11 252.21 73.53 4 35 29 2765.7 -25.40 114.03
 90.00 0 23 50 4008.26 -6.11 161.25 245.01 62.30 1 30 38 3408.3 -9.77 154.48
 100.00 5 28 31 3013.92 -26.31 97.13 253.12 75.28 6 18 45 2413.9 -28.08 88.77
 100.00 1 17 23 3835.29 -3.42 147.07 243.53 60.29 2 21 19 3235.3 -7.36 140.48
 110.00 7 25 53 2646.68 -32.55 70.88 254.76 78.93 8 10 0 2046.7 -33.73 61.84
 110.00 1 36 30 3775.30 2.01 159.14 240.15 55.87 2 39 26 3175.3 -2.49 132.94

DIFFERENTIAL CORRECTIONS

TDE -1.3723 TRA -2.5012 TC3 -.1797 BAU .1122
 RDE -.1348 RRA .1982 RC3 -.1409 FAU .02572
 FDE 2.0165 FRA 2.6837 FC3 -.6058 BSP 9826
 BDE 1.3789 BRA 2.5091 BC3 .2284 FSP -873

MID-COURSE EXECUTION ACCURACY

SGT 2942.9 SGR 288.2 SG3 301.2
 RRT -.3951 RRF .4540 RTF -.9503
 SGB 2958.0 R23 -.0819 R13 .9506
 SG1 2945.3 SG2 273.7 THA 177.69

ORBIT DETERMINATION ACCURACY

ST 1518.6 SR 142.0 SS 1463.0
 CRT .5371 CRS .6402 CST .9916
 LSA 2105.9 MSA 177.6 SSA 14.2
 EL1 1520.5 EL2 119.7 ALF 2.89

LAUNCH DATE NOV 22 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 347.833

RL 147.74 LAL .00 LOL 59.76 VL 27.040 GAL 8.43 AZL 85.48 HCA 142.57 SMA 124.57 ECC .23523 INC 4.5218 V1 30.157
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.323 GAP -11.28 AZP 93.59 TAL 149.90 TAP 292.47 RCA 95.27 APO 153.87 V2 35.099
 RC 42.534 GL 20.85 GP -7.58 ZAL 43.48 ZAP 13.50 ETS 35.14 ZAE 161.46 ETE 251.91 ZAC 80.58 ETC 284.34 CLP -11.20

PLANETOCENTRIC CONIC

C3 35.113 VHL 5.926 DLA 27.25 RAL 10.46 RAD 6568.4 VEL 12.509 PTH 2.26 VHP 7.739 DPA -5.30 RAP 14.65 ECC 1.5779
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 7 37 3453.22 -21.55 127.89 250.39 71.18 4 5 11 2853.2 -23.93 120.02
 90.00 0 51 25 3887.70 -9.56 154.95 245.17 63.22 1 56 22 3297.7 -13.08 148.04
 100.00 5 6 1 3071.58 -25.25 101.09 251.88 73.45 5 57 12 2471.6 -27.28 92.87
 100.00 1 35 43 3754.57 -6.13 142.80 243.35 60.69 2 38 17 3154.6 -9.99 135.94
 110.00 7 11 22 2678.30 -32.10 73.32 253.69 77.56 7 56 1 2079.3 -33.48 64.36
 110.00 1 46 51 3719.61 -1.12 136.24 239.61 55.82 2 48 50 3119.6 -4.61 130.02

DIFFERENTIAL CORRECTIONS

TDE -1.3905 TRA -2.4499 TC3 -.1488 BAU .0986
 RDE -.0896 RRA .2090 RC3 -.1503 FAU .02766
 FDE 2.1940 FRA 2.8149 FC3 -.6821 BSP 10067
 BDE 1.3934 BRA 2.4588 BC3 .2101 FSP -972

MID-COURSE EXECUTION ACCURACY

SGT 2989.7 SGR 301.5 SG3 329.3
 RRT -.3084 RRF .5710 RTF -.9539
 SGB 3004.8 R23 -.0957 R13 .9543
 SG1 2993.6 SG2 259.3 THA 177.04

ORBIT DETERMINATION ACCURACY

ST 1564.2 SR 110.4 SS 1545.7
 CRT .3590 CRS .4742 CST .9917
 LSA 2195.0 MSA 172.7 SSA 13.3
 EL1 1564.7 EL2 103.0 ALF 1.46

LAUNCH DATE NOV 22 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 354.607

RL 147.74 LAL .00 LOL 59.76 VL 27.130 GAL 8.13 AZL 85.32 HCA 145.79 SMA 125.14 ECC .22798 INC 4.6813 V1 30.157
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.376 GAP -10.60 AZP 93.87 TAL 149.78 TAP 295.57 RCA 96.61 APO 153.67 V2 35.086
 RC 42.853 GL 22.18 GP -8.64 ZAL 44.02 ZAP 15.55 ETS 34.66 ZAE 161.44 ETE 260.58 ZAC 79.25 ETC 284.42 CLP -12.96

PLANETOCENTRIC CONIC

C3 33.710 VHL 5.006 DLA 28.47 RAL 9.84 RAD 6568.3 VEL 12.453 PTH 2.25 VHP 7.377 DPA -5.67 RAP 16.41 ECC 1.5348
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.96 1 31 36 3747.57 -16.41 147.30 246.96 66.41 2 34 4 3147.6 -19.46 139.94
 93.04 2 22 28 3502.76 -16.39 135.23 246.96 66.40 3 22 11 2982.8 -19.45 127.87
 100.00 4 35 47 3153.36 -25.56 108.57 249.92 71.04 5 28 20 2553.4 -25.92 98.57
 100.00 2 0 59 3652.21 -9.50 136.87 243.51 61.53 3 1 51 3052.2 -13.24 130.07
 110.00 6 54 20 2719.63 -31.47 76.29 252.57 75.90 7 39 40 2119.6 -33.08 67.44
 110.00 1 58 55 3650.70 -2.45 133.06 239.20 55.89 2 59 53 3058.7 -6.91 126.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4280 TRA-2.4100 TC3 -.1300 BAU .0933 SGT 3054.2 SGR 317.5 SCS 361.3 ST 1626.2 SR 85.2 SS 1643.6
 RDE -.0384 RRA .2261 RC3 -.1610 FAU .02932 RRT -.6240 RRF .6913 RTF -.9568 CRT -.0606 CRS .0632 CST .9921
 FDE 2.4093 FRA 2.9838 FC3 -.7529 BSP 10130 SGB 3070.6 R23 -.1196 R13 .9574 LSA 2307.6 MSA 168.0 SSA 12.5
 BDE 1.4285 BRA 2.4206 BC3 .2069 FSP -1061 SGI 3060.6 SGT 247.6 THA 176.26 EL1 1626.2 EL2 85.1 ALF 179.82

LAUNCH DATE NOV 22 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 361.365

RL 147.74 LAL .00 LOL 59.76 VL 27.213 GAL 7.86 AZL 85.13 HCA 149.00 SMA 125.68 ECC .22122 INC 4.8694 V1 30.157
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.424 GAP -9.95 AZP 94.18 TAL 149.69 TAP 298.69 RCA 97.87 APO 153.48 V2 35.073
 RC 43.347 GL 23.65 GP -9.93 ZAL 44.67 ZAP 17.76 ETS 34.77 ZAE 160.80 ETE 268.67 ZAC 77.66 ETC 284.51 CLP -14.79

PLANETOCENTRIC CONIC

C3 32.551 VHL 5.705 DLA 29.78 RAL 9.10 RAD 6568.3 VEL 12.407 PTH 2.24 VHP 7.033 DPA -6.28 RAP 18.20 ECC 1.5357
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.37 0 35 37 3909.56 -17.37 159.68 245.99 65.42 1 40 46 3309.6 -20.54 152.33
 99.63 3 12 34 3403.13 -17.36 122.44 245.98 65.41 4 9 17 2803.1 -20.53 115.10
 100.00 3 36 59 3325.10 -19.33 117.57 246.90 66.74 4 32 24 2725.1 -22.31 110.04
 100.00 2 53 52 3462.83 -15.42 125.93 245.03 64.07 3 51 35 2862.8 -18.78 118.75
 110.00 6 33 38 2771.07 -30.55 80.02 251.32 73.87 7 19 49 2171.1 -32.46 71.32
 110.00 2 13 43 3589.62 -5.08 129.44 239.00 56.15 3 13 32 2989.6 -9.49 123.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4656 TRA-2.3808 TC3 -.1069 BAU .0887 SGT 3103.3 SGR 352.4 SCS 396.0 ST 1684.6 SR 90.1 SS 1749.0
 RDE .0216 RRA .2513 RC3 -.1735 FAU .03120 RRT -.7328 RRF .8008 RTF -.9596 CRT -.6814 CRS -.5878 CST .9924
 FDE 2.6958 FRA 3.1155 FC3 -.8299 BSP 10298 SGB 3125.3 R23 -.1373 R13 .9605 LSA 2424.4 MSA 164.8 SSA 11.3
 BDE 1.4656 BRA 2.3742 BC3 .2038 FSP -1165 SGI 3116.1 SGT 239.0 THA 175.22 EL1 1685.7 EL2 65.9 ALF 177.91

LAUNCH DATE NOV 22 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 368.107

RL 147.74 LAL .00 LOL 59.76 VL 27.290 GAL 7.60 AZL 84.90 HCA 152.21 SMA 126.17 ECC .21492 INC 5.0960 V1 30.157
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.468 GAP -9.31 AZP 94.51 TAL 149.63 TAP 301.84 RCA 99.06 APO 153.29 V2 35.060
 RC 44.011 GL 25.28 GP -11.56 ZAL 45.47 ZAP 20.22 ETS 35.42 ZAE 159.55 ETE 275.58 ZAC 75.79 ETC 284.63 CLP -16.71

PLANETOCENTRIC CONIC

C3 31.657 VHL 5.626 DLA 31.23 RAL 8.22 RAD 6568.3 VEL 12.371 PTH 2.23 VHP 6.711 DPA -7.23 RAP 20.07 ECC 1.5210
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.25 0 1 46 3998.80 -18.37 166.84 245.04 64.29 1 8 25 3398.8 -21.67 159.51
 103.75 3 39 21 3299.87 -18.35 115.21 245.03 64.28 4 34 21 2699.9 -21.66 107.88
 76.25 0 1 46 3998.80 -18.37 166.84 245.04 64.29 1 8 25 3398.8 -21.67 159.51
 103.75 3 39 21 3299.87 -18.35 115.21 245.03 64.28 4 34 21 2699.9 -21.66 107.88
 110.00 6 6 58 2840.47 -29.14 84.93 249.83 71.28 6 54 19 2240.5 -31.41 76.46
 110.00 2 33 19 3506.20 -8.22 125.03 239.15 56.70 3 31 45 2906.2 -12.55 118.60

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.5087 TRA-2.3053 TC3 -.0818 BAU .0870 SGT 3147.3 SGR 413.3 SCS 433.4 ST 1743.2 SR 140.8 SS 1864.5
 RDE .0947 RRA .2866 RC3 -.1885 FAU .03319 RRT -.8193 RRF .8846 RTF -.9623 CRT -.9472 CRS -.9026 CST .9927
 FDE 2.9420 FRA 3.2675 FC3 -.9076 BSP 10492 SGB 3174.3 R23 -.1600 R13 .9636 LSA 2551.1 MSA 162.7 SSA 10.1
 BDE 1.5117 BRA 2.3230 BC3 .2055 FSP -1280 SGI 3185.6 SGT 235.6 THA 173.83 EL1 1748.3 EL2 45.0 ALF 175.62

LAUNCH DATE NOV 22 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 374.831

RL 147.74 LAL .00 LOL 59.76 VL 27.360 GAL 7.36 AZL 84.62 HCA 155.42 SMA 126.64 ECC .20908 INC 5.3765 V1 30.157
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.507 GAP -8.69 AZP 94.89 TAL 149.59 TAP 305.01 RCA 100.16 APO 153.11 V2 35.047
 RC 44.838 GL 27.14 GP -13.62 ZAL 46.45 ZAP 22.99 ETS 36.61 ZAE 157.67 ETE 280.98 ZAC 73.51 ETC 284.78 CLP -18.70

PLANETOCENTRIC CONIC

C3 31.072 VHL 5.574 DLA 32.85 RAL 7.14 RAD 6568.2 VEL 12.347 PTH 2.23 VHP 6.415 DPA -8.63 RAP 22.00 ECC 1.5114
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.61 23 29 0 4070.75 -19.39 172.86 244.13 62.95 24 36 51 3470.8 -22.86 165.55
 107.39 3 59 37 3218.54 -19.38 109.56 244.12 62.94 4 53 15 2618.5 -22.85 102.25
 72.61 23 29 0 4070.75 -19.39 172.86 244.13 62.95 24 36 51 3470.8 -22.86 165.55
 107.39 3 59 37 3218.54 -19.38 109.56 244.12 62.94 4 53 15 2618.5 -22.85 102.25
 110.00 5 27 53 2946.96 -26.59 92.16 247.72 67.68 6 17 0 2347.0 -29.38 84.09
 110.00 3 3 50 3390.34 -12.49 118.76 240.06 57.92 4 0 20 2790.3 -16.64 112.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.5825 TRA-2.2447 TC3 -.0591 BAU .0892 SGT 3182.2 SGR 508.3 SCS 472.9 ST 1805.1 SR 228.9 SS 1991.8
 RDE .1877 RRA .3351 RC3 -.2066 FAU .03510 RRT -.8784 RRF .9390 RTF -.9647 CRT -.9951 CRS -.9775 CST .9930
 FDE 3.2769 FRA 3.4119 FC3 -.9780 BSP 10663 SGB 3222.6 R23 -.1816 R13 .9666 LSA 2692.9 MSA 162.3 SSA 8.7
 BDE 1.5737 BRA 2.2895 BC3 .2148 FSP -1402 SGI 3213.6 SGT 240.6 THA 171.97 EL1 1819.4 EL2 22.3 ALF 172.81

LAUNCH DATE NOV 22 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 381.536

RL 147.74 LAL .00 LOL 59.76 VL 27.425 GAL 7.13 AZL 84.27 HCA 158.62 SMA 127.07 ECC .20368 INC 5.7349 V1 30.157
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.541 GAP -8.09 AZP 95.34 TAL 149.57 TAP 308.20 RCA 101.19 APO 152.95 V2 35.033
 RC 45.818 GL 29.30 GP -16.32 ZAL 47.66 ZAP 26.19 ETS 38.39 ZAE 155.10 ETE 284.77 ZAC 70.64 ETC 285.02 CLP -20.78

PLANETOCENTRIC CONIC

C3 30.879 VHL 5.557 DLA 34.71 RAL 5.81 RAD 6568.2 VEL 12.339 PTH 2.22 VHP 6.153 DPA -10.62 RAP 24.14 ECC 1.5082
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.03 23 1 46 4136.25 -20.45 178.54 243.26 61.32 24 10 42 3536.3 -24.12 171.27
 110.97 4 16 11 3149.91 -20.43 104.82 243.25 61.31 5 8 41 2549.9 -24.10 97.55
 69.03 23 1 46 4136.25 -20.45 178.54 243.26 61.32 24 10 42 3536.3 -24.12 171.27
 110.97 4 16 11 3149.91 -20.43 104.82 243.25 61.31 5 8 41 2549.9 -24.10 97.55
 69.03 23 1 46 4136.25 -20.45 178.54 243.26 61.32 24 10 42 3536.3 -24.12 171.27
 110.97 4 16 11 3149.91 -20.43 104.82 243.25 61.31 5 8 41 2549.9 -24.10 97.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0313 TRA-2.1774 TC3 -.0383 BAU .0955
 RDE .3122 RRA .4007 RC3 -.2262 FAU .03674
 FDE 3.6680 FRA 3.5314 FC3-1.0302 B8P 10853
 BDE 1.6611 BRA 2.2140 BC3 .2314 FSP -1527

SGT 3208.0 SGR 648.5 SG3 512.9
 RRT -.9149 RRF .9700 RTF -.9669
 SGB 3272.8 R23 -.1974 R13 .9699
 SGI 3262.7 SGI 257.4 THA 169.46

ST 1871.2 SR 355.5 SS 2131.2
 CRT -.9996 CR3 -.9949 CST .9933
 LSA 2853.6 MSA 163.5 SSA 7.3
 EL1 1904.6 EL2 9.4 ALF 169.25

LAUNCH DATE NOV 22 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 388.220

RL 147.74 LAL .00 LOL 59.76 VL 27.484 GAL 6.92 AZL 85.79 HCA 161.83 SMA 127.46 ECC .19870 INC 6.2127 V1 30.157
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.572 GAP -7.51 AZP 95.90 TAL 149.57 TAP 311.39 RCA 102.14 APO 152.79 V2 35.020
 RC 46.944 GL 31.89 GP -19.92 ZAL 49.22 ZAP 30.01 ETS 40.83 ZAE 151.66 ETE 287.03 ZAC 66.90 ETC 285.39 CLP -22.92

PLANETOCENTRIC CONIC

C3 31.239 VHL 5.589 DLA 36.91 RAL 4.08 RAD 6568.2 VEL 12.354 PTH 2.23 VHP 5.942 DPA -13.48 RAP 26.60 ECC 1.5141
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.27 22 34 5 4201.34 -21.52 184.39 242.43 59.26 23 44 7 3601.3 -25.43 177.19
 114.73 4 30 8 3090.64 -21.50 100.75 242.42 59.25 5 21 38 2490.6 -25.42 93.56
 65.27 22 34 5 4201.34 -21.52 184.39 242.43 59.26 23 44 7 3601.3 -25.43 177.19
 114.73 4 30 8 3090.64 -21.50 100.75 242.42 59.25 5 21 38 2490.6 -25.42 93.56
 65.27 22 34 5 4201.34 -21.52 184.39 242.43 59.26 23 44 7 3601.3 -25.43 177.19
 114.73 4 30 8 3090.64 -21.50 100.75 242.42 59.25 5 21 38 2490.6 -25.42 93.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.7266 TRA-2.1026 TC3 -.0218 BAU .1064
 RDE .4879 RRA .4879 RC3 -.2538 FAU .03777
 FDE 4.1174 FRA 3.5916 FC3-1.0468 B8P 11073
 BDE 1.7942 BRA 2.1584 BC3 .2547 FSP -1645

SGT 3224.8 SGR 849.7 SG3 549.1
 RRT -.9360 RRF .9859 RTF -.9688
 SGB 3334.8 R23 -.2036 R13 .9734
 SGI 3322.1 SGI 290.4 THA 166.04

ST 1946.0 SR 534.3 SS 2280.0
 CRT -.9974 CR3 -.9991 CST .9937
 LSA 3040.2 MSA 166.6 SSA 5.9
 EL1 2017.6 EL2 36.8 ALF 164.68

LAUNCH DATE NOV 22 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 394.883

RL 147.74 LAL .00 LOL 59.76 VL 27.538 GAL 6.73 AZL 85.11 HCA 165.02 SMA 127.83 ECC .19413 INC 6.8858 V1 30.157
 RP 108.23 LAP 1.78 LOP 224.89 VP 37.599 GAP -6.94 AZP 96.85 TAL 149.58 TAP 314.60 RCA 103.01 APO 152.84 V2 35.007
 RC 48.205 GL 35.11 GP -24.90 ZAL 51.27 ZAP 34.77 ETS 44.05 ZAE 146.94 ETE 287.99 ZAC 61.84 ETC 286.04 CLP -25.10

PLANETOCENTRIC CONIC

C3 32.494 VHL 5.700 DLA 39.58 RAL 1.75 RAD 6568.3 VEL 12.404 PTH 2.24 VHP 5.816 DPA -17.60 RAP 29.67 ECC 1.5348
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.11 22 4 8 4270.98 -22.53 190.81 241.64 56.56 23 15 19 3671.0 -26.76 183.76
 118.89 4 41 27 3040.83 -22.52 97.33 241.63 56.55 5 32 8 2440.8 -26.75 90.27
 61.11 22 4 8 4270.98 -22.53 190.81 241.64 56.56 23 15 19 3671.0 -26.76 183.76
 118.89 4 41 27 3040.83 -22.52 97.33 241.63 56.55 5 32 8 2440.8 -26.75 90.27
 61.11 22 4 8 4270.98 -22.53 190.81 241.64 56.56 23 15 19 3671.0 -26.76 183.76
 118.89 4 41 27 3040.83 -22.52 97.33 241.63 56.55 5 32 8 2440.8 -26.75 90.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.8713 TRA-2.0211 TC3 -.0141 BAU .1217
 RDE .7534 RRA .6018 RC3 -.2797 FAU .03718
 FDE 4.6165 FRA 3.5362 FC3 -.9906 B8P 11346
 BDE 2.0172 BRA 2.1088 BC3 .2801 FSP -1726

SGT 3238.1 SGR 1136.3 SG3 573.6
 RRT -.9479 RRF .9934 RTF -.9706
 SGB 3431.6 R23 -.1972 R13 .9778
 SGI 3414.4 SGI 343.1 THA 161.41

ST 2040.3 SR 793.1 SS 2433.1
 CRT -.9953 CR3 -.9999 CST .9941
 LSA 3268.4 MSA 171.4 SSA 4.4
 EL1 2187.9 EL2 71.9 ALF 158.83

LAUNCH DATE NOV 22 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 401.522

RL 147.74 LAL .00 LOL 59.76 VL 27.587 GAL 6.56 AZL 82.09 HCA 168.21 SMA 128.16 ECC .18996 INC 7.9130 V1 30.157
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.623 GAP -6.38 AZP 97.75 TAL 149.60 TAP 317.81 RCA 103.82 APO 152.51 V2 34.994
 RC 49.590 GL 39.32 GP -32.00 ZAL 54.14 ZAP 41.03 ETS 48.24 ZAE 140.20 ETE 288.12 ZAC 54.72 ETC 287.32 CLP -27.18

PLANETOCENTRIC CONIC

C3 35.461 VHL 5.955 DLA 42.95 RAL 358.33 RAD 6568.4 VEL 12.523 PTH 2.27 VHP 5.855 DPA -23.59 RAP 33.89 ECC 1.5836
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.24 21 29 19 4351.74 -23.29 198.37 240.81 52.83 22 41 51 3751.7 -27.95 191.57
 123.76 4 49 1 3004.16 -23.28 94.75 240.80 52.82 5 39 5 2404.2 -27.94 87.95
 56.24 21 29 19 4351.74 -23.29 198.37 240.81 52.83 22 41 51 3751.7 -27.95 191.57
 123.76 4 49 1 3004.16 -23.28 94.75 240.80 52.82 5 39 5 2404.2 -27.94 87.95
 56.24 21 29 19 4351.74 -23.29 198.37 240.81 52.83 22 41 51 3751.7 -27.95 191.57
 123.76 4 49 1 3004.16 -23.28 94.75 240.80 52.82 5 39 5 2404.2 -27.94 87.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.1154 TRA-1.9292 TC3 -.0154 BAU .1411
 RDE 1.1838 RRA .7382 RC3 -.2972 FAU .03366
 FDE 5.0945 FRA 3.2486 FC3 -.8218 B8P 11857
 BDE 2.4241 BRA 2.0656 BC3 .2976 FSP -1728

SGT 3251.8 SGR 1537.6 SG3 568.0
 RRT -.9545 RRF .9965 RTF -.9724
 SGB 3597.0 R23 -.1768 R13 .9833
 SGI 3572.7 SGI 417.2 THA 155.35

ST 2172.9 SR 1175.7 SS 2563.1
 CRT -.9942 CR3 -1.0000 CST .9948
 LSA 3555.5 MSA 177.7 SSA 3.1
 EL1 2468.1 EL2 111.4 ALF 151.66

LAUNCH DATE NOV 22 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 408.132

RL 147.74 LAL .00 LOL 59.76 VL 27.632 GAL 6.40 AZL 80.31 HCA 171.40 SMA 128.47 ECC .18618 INC 9.6867 V1 30.157
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.643 GAP -5.84 AZP 99.58 TAL 149.62 TAP 321.02 RCA 104.55 APO 152.38 V2 34.980
 RC 51.891 GL 45.09 GP -42.47 ZAL 58.41 ZAP 49.69 ETS 53.79 ZAE 130.18 ETE 288.42 ZAC 44.29 ETC 290.24 CLP -28.71

PLANETOCENTRIC CONIC

C3 42.559 VHL 6.524 DLA 47.31 RAL 352.78 RAD 6568.6 VEL 12.803 PTH 2.33 VHP 6.285 DPA -32.31 RAP 40.63 ECC 1.7004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.37 20 45 0 4455.50 -23.15 207.81 239.57 47.51 21 59 16 3855.5 -28.41 201.53
 129.63 4 49 3 2992.56 -23.13 93.55 239.56 47.50 5 38 56 2392.6 -28.39 87.27
 50.37 20 45 0 4455.50 -23.15 207.81 239.57 47.51 21 59 16 3855.5 -28.41 201.53
 129.63 4 49 3 2992.56 -23.13 93.55 239.56 47.50 5 38 56 2392.6 -28.39 87.27
 50.37 20 45 0 4455.50 -23.15 207.81 239.57 47.51 21 59 16 3855.5 -28.41 201.53
 129.63 4 49 3 2992.56 -23.13 93.55 239.56 47.50 5 38 56 2392.6 -28.39 87.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -2.6174 TRA -1.8294 TC3 -.0339 BAU .1586 SGT 3301.8 SGR 2064.3 SCS 499.9 ST 2406.2 SR 1735.7 SS 2604.4
 RDE 1.9396 RRA .8359 RC3 -.2766 FAU .02452 RRT -.9576 RRF .9973 RTF -.9752 CRT -.9942 CRS -.9999 CST .9959
 FDE 5.3420 FRA 2.5645 FC3 -.4909 BSP 12757 SGB 3884.0 R23 -.1409 R13 .9897 LSA 3943.5 MSA 184.3 SSA 1.8
 BDE 3.2578 BRA 2.0198 BC3 .2787 FSP -1551 SGI 3860.7 SGT 508.3 THA 148.48 EL1 2963.1 EL2 151.0 ALF 144.25

LAUNCH DATE NOV 22 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 414.700

RL 147.74 LAL .00 LOL 59.76 VL 27.672 GAL 6.26 AZL 76.49 HCA 174.56 SMA 128.74 ECC .18280 INC13.5073 V1 30.157
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.661 GAP -5.32 AZP 103.45 TAL 149.63 TAP 324.19 RCA 105.21 APO 152.28 V2 34.967
 RC 52.697 GL 53.33 GP -57.98 ZAL 65.23 ZAP 61.91 ETS 63.09 ZAE 114.94 ETE 292.60 ZAC 28.77 ETC 299.30 CLP -27.36

PLANETOCENTRIC CONIC

C3 64.159 VHL 8.010 DLA 52.62 RAL 342.39 RAD 6569.2 VEL 13.620 PTH 2.49 VHP 7.908 DPA -44.23 RAP 53.85 ECC 2.0559
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.60 19 41 37 4609.12 -19.94 219.80 236.31 40.23 20 58 26 4009.1 -25.95 214.48
 136.40 4 29 30 3042.16 -19.92 94.98 236.29 40.23 5 20 12 2442.2 -25.94 89.66
 43.60 19 41 37 4609.12 -19.94 219.80 236.31 40.23 20 58 26 4009.1 -25.95 214.48
 136.40 4 29 30 3042.16 -19.92 94.98 236.29 40.23 5 20 12 2442.2 -25.94 89.66
 43.60 19 41 37 4609.12 -19.94 219.80 236.31 40.23 20 58 26 4009.1 -25.95 214.48
 136.40 4 29 30 3042.16 -19.92 94.98 236.29 40.23 5 20 12 2442.2 -25.94 89.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -4.0811 TRA -1.7337 TC3 -.0864 BAU .1505 SGT 3563.6 SGR 2515.5 SCS 334.6 ST 2982.9 SR 2362.5 SS 2412.7
 RDE 3.2828 RRA .7373 RC3 -.1528 FAU .00683 RRT -.9885 RRF .9943 RTF -.9831 CRT -.9953 CRS -.9995 CST .9979
 FDE 4.8672 FRA 1.4088 FC3 -.0921 BSP 14075 SGB 4363.6 R23 -.0885 R13 .9960 LSA 4501.6 MSA 187.7 SSA .9
 BDE 5.2374 BRA 1.8840 BC3 .1755 FSP -1066 SGI 4323.1 SGT 593.1 THA 145.19 EL1 3800.9 EL2 178.6 ALF 141.65

LAUNCH DATE NOV 22 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 421.142

RL 147.74 LAL .00 LOL 59.76 VL 27.708 GAL 6.16 AZL 82.54 HCA 177.63 SMA 128.99 ECC .17996 INC27.4575 V1 30.157
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.675 GAP -4.84 AZP 117.44 TAL 149.57 TAP 327.21 RCA 105.78 APO 152.21 V2 34.954
 RC 54.398 GL 82.55 GP -77.27 ZAL 76.63 ZAP 77.54 ETS 117.62 ZAE 91.39 ETE 343.81 ZAC 4.96 ETC 6.10 CLP 11.91

PLANETOCENTRIC CONIC

C3 204.904 VHL 14.314 DLA 54.45 RAL 322.47 RAD 6571.1 VEL 18.062 PTH 3.01 VHP 15.791 DPA -53.82 RAP 87.97 ECC 4.3722
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.33 18 15 31 4857.00 -7.74 230.95 226.91 35.92 19 36 28 4257.0 -14.19 226.53
 138.67 3 16 43 3260.88 -7.73 102.91 226.89 35.92 4 11 4 2660.9 -14.17 98.50
 41.33 18 15 31 4857.00 -7.74 230.95 226.91 35.92 19 36 28 4257.0 -14.19 226.53
 138.67 3 16 43 3260.88 -7.73 102.91 226.89 35.92 4 11 4 2660.9 -14.17 98.50
 41.33 18 15 31 4857.00 -7.74 230.95 226.91 35.92 19 36 28 4257.0 -14.19 226.53
 138.67 3 16 43 3260.88 -7.73 102.91 226.89 35.92 4 11 4 2660.9 -14.17 98.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -10.9388 TRA -.8902 TC3 -.2355 BAU .6981 SGT 4472.2 SGR 1714.3 SCS 128.7 ST 4382.3 SR 1539.8 SS 1989.4
 RDE -3.8073 RRA -1.0664 RC3 -.0972 FAU -.01979 RRT .9553 RRF -.9532 RTF -.9999 CRT .9948 CRS .9948 CST 1.0000
 FDE 3.6396 FRA .2935 FC3 .0836 BSP 15036 SGB 4789.6 R23 .0383 R13 -.9992 LSA 5050.8 MSA 148.9 SSA .9
 BDE 11.5824 BRA 1.3891 BC3 .2548 FSP -423 SGI 4764.9 SGT 485.1 THA 20.30 EL1 4642.6 EL2 147.4 ALF 19.29

LAUNCH DATE NOV 22 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 428.406

RL 147.74 LAL .00 LOL 59.76 VL 27.740 GAL 5.91 AZL 130.02 HCA 181.42 SMA 129.22 ECC .17593 INC40.0226 V1 30.157
 RP 108.45 LAP .91 LOP 240.85 VP 37.687 GAP -4.16 AZP 49.99 TAL 150.06 TAP 331.48 RCA 106.48 APO 151.95 V2 34.942
 RC 56.186 GL -61.65 GP 72.48 ZAL 80.88 ZAP 83.72 ETS 208.34 ZAE 86.43 ETE 339.34 ZAC 151.21 ETC 261.58 CLP 68.68

PLANETOCENTRIC CONIC

C3 406.537 VHL 20.163 DLA -57.42 RAL 29.96 RAD 6572.1 VEL 22.975 PTH 3.27 VHP 27.025 DPA 76.79 RAP 233.43 ECC 7.6906
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.71 10 36 37 2318.27 3.17 67.60 297.92 147.36 11 15 15 1718.3 9.89 63.65
 142.29 19 54 4 680.51 3.18 294.72 297.94 147.36 20 5 24 80.5 9.90 290.77
 37.71 10 36 37 2318.27 3.17 67.60 297.92 147.36 11 15 15 1718.3 9.89 63.65
 142.29 19 54 4 680.51 3.18 294.72 297.94 147.36 20 5 24 80.5 9.90 290.77
 37.71 10 36 37 2318.27 3.17 67.60 297.92 147.36 11 15 15 1718.3 9.89 63.65
 142.29 19 54 4 680.51 3.18 294.72 297.94 147.36 20 5 24 80.5 9.90 290.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9424 TRA -5.5972 TC3 -.2112 BAU 1.7035 SGT 3123.2 SGR 3548.6 SCS 88.8 ST 1044.3 SR 1064.7 SS 697.2
 RDE 1.0390 RRA 8.4594 RC3 .2316 FAU -.03210 RRT -.9660 RRF .9934 RTF -.9893 CRT -.6690 CRS -.9252 CST .9011
 FDE -.1136 FRA 1.8744 FC3 .0684 BSP 15702 SGB 4725.8 R23 .0011 R13 1.0000 LSA 1530.5 MSA 606.6 SSA .3
 BDE 2.2028 BRA 8.5471 BC3 .3134 FSP -304 SGI 4686.1 SGT 610.7 THA 131.24 EL1 1362.5 EL2 606.5 ALF 134.17

LAUNCH DATE NOV 22 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 434.624

RL 147.74 LAL .00 LOL 59.76 VL 27.769 GAL 5.87 AZL 99.69 HCA 184.33 SMA 129.42 ECC .17408 INC 9.6846 V1 30.157
 RP 108.49 LAP .73 LOP 244.03 VP 37.697 GAP -3.75 AZP 80.34 TAL 149.88 TAP 334.21 RCA 106.89 APO 151.95 V2 34.929
 RC 58.051 GL -47.09 GP 69.31 ZAL 59.94 ZAP 72.72 ETS 310.62 ZAE 113.83 ETE 74.53 ZAC 150.87 ETC 299.64 CLP -32.79

PLANETOCENTRIC CONIC

C3 40.259 VHL 6.345 DLA -36.31 RAL 36.16 RAD 6568.5 VEL 12.713 PTH 2.31 VHP 9.028 DPA 65.63 RAP 329.51 ECC 1.6626
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.25 12 49 3 1606.37 18.95 17.73 278.28 121.57 13 15 50 1006.4 22.99 10.75
 113.75 18 31 2 5813.65 18.97 274.44 278.29 121.56 20 7 56 5213.6 23.00 267.45
 66.25 12 49 3 1606.37 18.95 17.73 278.28 121.57 13 15 50 1006.4 22.99 10.75
 113.75 18 31 2 5813.65 18.97 274.44 278.29 121.56 20 7 56 5213.6 23.00 267.45
 66.25 12 49 3 1606.37 18.95 17.73 278.28 121.57 13 15 50 1006.4 22.99 10.75
 113.75 18 31 2 5813.65 18.97 274.44 278.29 121.56 20 7 56 5213.6 23.00 267.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9685 TRA-2.4751 TC3 -.0203 BAU .2176
 RDE -.3764 RRA-3.4092 RC3 .4037 FAU .01429
 FDE .4898 FRA 2.7971 FC3 -.3072 B8P 15472
 BDE 1.0390 BRA 4.2129 BC3 .4042 F8P -886

SGT 2908.3 SGR 3869.6 SCS 275.6
 RRT .9868 RRF -.9988 RTF -.9778
 SGB 4840.7 R23 -.0441 R13 -.9988
 SGI 4803.6 SGT 598.7 THA 53.33

ST 1207.1 SR 1195.6 SS 810.5
 CRT .8668 CR3 .9806 CST .9320
 LSA 1828.8 MSA 446.0 SSA 1.5
 EL1 1641.4 EL2 438.5 ALF 44.68

LAUNCH DATE NOV 22 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 441.088

RL 147.74 LAL .00 LOL 59.76 VL 27.794 GAL 5.80 AZL 94.18 HCA 187.47 SMA 129.60 ECC .17205 INC 4.1776 V1 30.157
 RP 108.93 LAP .54 LOP 247.21 VP 37.704 GAP -3.28 AZP 85.86 TAL 149.86 TAP 337.33 RCA 107.30 APO 151.89 V2 34.917
 RC 59.985 GL -26.36 GP 55.49 ZAL 46.13 ZAP 66.58 ETS 324.18 ZAE 127.97 ETE 81.01 ZAC 139.52 ETC 292.10 CLP -45.44

PLANETOCENTRIC CONIC

C3 20.580 VHL 4.537 DLA -16.43 RAL 28.90 RAD 6567.8 VEL 11.915 PTH 2.12 VHP 5.957 DPA 53.96 RAP 346.83 ECC 1.3387
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 11 24 28 1683.44 -4.14 10.15 249.81 118.04 11 52 32 1083.4 -1.36 3.51
 90.00 18 57 44 5403.01 28.02 247.79 256.62 85.70 20 27 47 4803.0 27.12 239.24
 100.00 12 36 34 1450.81 -5.35 332.38 249.15 119.45 13 0 45 850.8 -1.39 345.84
 100.00 20 28 20 5110.87 29.39 226.16 256.48 84.27 21 53 31 4510.9 28.29 217.53
 110.00 13 24 21 1301.13 -8.44 339.14 247.25 123.25 13 46 2 701.1 -4.00 332.85
 110.00 21 57 2 4833.32 32.97 204.52 255.92 80.41 23 17 36 4233.3 31.30 193.70

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8135 TRA-1.6240 TC3 .0422 BAU .2835
 RDE -.5149 RRA-2.7887 RC3 1.0294 FAU .04190
 FDE 1.0123 FRA 4.6176 FC3 -1.7626 B8P 14747
 BDE .8010 BRA 3.2253 BC3 1.0302 F8P -1803

SGT 2274.8 SGR 3841.8 SCS 554.3
 RRT .9598 RRF -.9995 RTF -.9630
 SGB 4464.8 R23 -.0589 R13 -.9979
 SGI 4430.2 SGT 555.1 THA 59.87

ST 1006.0 SR 1278.9 SS 1146.7
 CRT .9406 CR3 .9970 CST .9641
 LSA 1971.3 MSA 276.6 SSA 3.8
 EL1 1604.2 EL2 272.2 ALF 52.22

LAUNCH DATE NOV 22 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 447.562

RL 147.74 LAL .00 LOL 59.76 VL 27.816 GAL 5.73 AZL 91.93 HCA 190.63 SMA 129.75 ECC .17027 INC 1.9277 V1 30.157
 RP 108.57 LAP .36 LOP 250.39 VP 37.710 GAP -2.81 AZP 88.11 TAL 149.85 TAP 340.48 RCA 107.66 APO 151.84 V2 34.908
 RC 61.981 GL -13.14 GP 46.24 ZAL 40.52 ZAP 64.61 ETS 332.79 ZAE 137.12 ETE 83.88 ZAC 131.29 ETC 289.00 CLP -51.70

PLANETOCENTRIC CONIC

C3 16.778 VHL 4.098 DLA -3.97 RAL 24.37 RAD 6567.7 VEL 11.754 PTH 2.07 VHP 4.791 DPA 45.55 RAP 353.54 ECC 1.2781
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 23 32 2050.02 -15.27 31.32 242.20 114.14 9 57 42 1450.0 -11.88 24.28
 90.00 20 22 32 4940.56 21.47 215.69 243.85 71.08 21 44 53 4340.6 18.69 208.12
 100.00 10 43 1 1793.62 -16.23 12.00 241.74 115.45 11 12 55 1193.6 -12.68 5.02
 100.00 21 45 44 4672.20 22.47 195.57 243.47 69.76 23 3 37 4072.2 19.52 188.03
 110.00 11 47 0 1593.32 -18.81 355.41 240.34 119.08 12 13 33 993.3 -14.79 348.60
 110.00 22 58 15 4445.26 25.16 177.15 242.27 66.06 24 12 20 3845.3 21.71 169.70

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5107 TRA-1.2685 TC3 -.0101 BAU .2703
 RDE -.6191 RRA-2.3829 RC3 1.2053 FAU .06437
 FDE 1.8787 FRA 6.2978 FC3 -3.3214 B8P 13444
 BDE .8026 BRA 2.6995 BC3 1.2053 F8P -2657

SGT 1916.8 SGR 3590.0 SCS 830.0
 RRT .9523 RRF -.9994 RTF -.9537
 SGB 4069.7 R23 -.0603 R13 -.9976
 SGI 4036.3 SGT 520.1 THA 62.55

ST 891.7 SR 1325.0 SS 1544.8
 CRT .9764 CR3 .9976 CST .9888
 LSA 2216.2 MSA 160.7 SSA 7.3
 EL1 1589.0 EL2 160.7 ALF 56.30

LAUNCH DATE NOV 22 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 454.023

RL 147.74 LAL .00 LOL 59.76 VL 27.835 GAL 5.67 AZL 90.70 HCA 193.81 SMA 129.89 ECC .16876 INC .7035 V1 30.157
 RP 108.80 LAP .17 LOP 253.57 VP 37.713 GAP -2.34 AZP 89.32 TAL 149.82 TAP 343.63 RCA 107.97 APO 151.81 V2 34.894
 RC 64.032 GL -4.92 GP 59.84 ZAL 38.78 ZAP 65.34 ETS 339.60 ZAE 143.37 ETE 87.39 ZAC 125.58 ETC 287.52 CLP -57.09

PLANETOCENTRIC CONIC

C3 15.697 VHL 3.962 DLA 3.72 RAL 21.48 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 4.178 DPA 39.34 RAP 356.52 ECC 1.2583
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 14 49 2273.61 -20.96 45.25 239.84 109.49 8 52 43 1673.6 -18.11 37.74
 90.00 21 8 10 4688.63 15.06 199.83 238.36 65.73 22 26 16 4086.6 11.66 192.80
 100.00 9 37 54 1405.82 -21.94 25.16 239.46 110.83 10 11 20 1405.6 -18.91 17.68
 100.00 22 27 46 419.84 16.01 180.49 237.91 64.41 23 41 36 3829.8 12.43 173.52
 110.00 10 50 9 11 8.53 -24.56 6.80 238.26 114.56 11 19 48 1179.5 -21.03 359.43
 110.00 23 35 1 4228.70 18.53 163.86 236.54 60.75 24 42 30 3628.7 14.49 157.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4252 TRA-.9834 TC3 -.0972 BAU .2555
 RDE -.6685 RRA-2.1319 RC3 1.2136 FAU .08388
 FDE 2.8209 FRA 7.7003 FC3 -4.6260 B8P 12391
 BDE .7922 BRA 2.7214 BC3 1.2175 F8P -3467

SGT 1554.1 SGR 3338.6 SCS 1074.3
 RRT .9374 RRF -.9991 RTF -.9382
 SGB 3682.5 R23 -.0556 R13 -.9976
 SGI 3649.1 SGT 495.3 THA 65.96

ST 748.9 SR 1330.8 SS 1905.4
 CRT .9885 CR3 .9975 CST .9965
 LSA 2439.5 MSA 106.6 SSA 11.7
 EL1 1523.9 EL2 99.0 ALF 60.78

LAUNCH DATE NOV 22 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 27.852 GAL 5.63 AZL 89.93 HCA 196.98 SMA 130.00 ECC .16753 INC .0656 V1 30.157
 RP 108.84 LAP -.02 LOP 256.74 VP 37.715 GAP -1.89 AZP 90.07 TAL 149.78 TAP 346.76 RCA 108.22 APO 151.78 V2 34.883
 RC 86.131 GL .49 GP 35.21 ZAL 38.46 ZAP 67.76 ETS 345.11 ZAE 147.75 ETE 92.33 ZAC 121.55 ETC 286.69 CLP -62.41

PLANETOCENTRIC CONIC

C3 15.369 VHL 3.920 DLA 8.77 RAL 19.50 RAD 6567.6 VEL 11.694 PTH 2.06 VHP 3.795 DPA 34.49 RAP 357.67 ECC 1.2529
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 28 14 2428.72 -24.12 55.52 239.08 105.30 8 8 43 1828.7 -21.79 47.62
 90.00 21 38 59 4521.97 10.24 190.14 235.72 63.45 22 54 21 3922.0 6.59 103.36
 100.00 8 53 51 2152.61 -25.16 34.88 238.75 106.69 9 29 43 1552.6 -22.64 27.00
 100.00 22 56 4 4273.32 11.20 171.36 235.21 62.10 24 7 17 3673.3 7.38 164.65
 110.00 10 11 49 1908.61 -27.94 15.31 237.70 110.55 10 43 37 1308.6 -24.88 7.47
 110.00 23 54 35 4090.08 13.74 155.97 233.73 58.39 25 2 45 3490.1 9.46 149.48

DIFFERENTIAL CORRECTIONS

TDE -.3338 TRA -.7181 TC3 -.2422 BAU .2395
 RDE -.6882 RRA-1.9102 RC3 1.1401 FAU .09008
 FDE 3.8098 FRA 8.9386 FC3-5.5250 BSP 11005
 BDE .7739 BRA 2.0407 BC3 1.1656 FSP -4092

MID-COURSE EXECUTION ACCURACY

SGT 1184.0 SGR 3133.6 SG3 1294.5
 RRT .8969 RRF -.9988 RTF -.8980
 SGB 3349.9 R23 -.0488 R13 -.9977
 SG1 3313.1 SG2 495.2 THA 70.83

ORBIT DETERMINATION ACCURACY

ST 582.8 SR 1326.7 SS 2242.0
 CRT .9930 CRS .9972 CST .9988
 LSA 2667.9 MSA 91.5 SSA 14.8
 EL1 1447.7 EL2 63.1 ALF 66.39

LAUNCH DATE NOV 22 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 27.865 GAL 5.60 AZL 89.40 HCA 200.15 SMA 130.10 ECC .16657 INC .6048 V1 30.157
 RP 108.87 LAP -.21 LOP 259.91 VP 37.715 GAP -1.44 AZP 90.57 TAL 149.73 TAP 349.88 RCA 108.43 APO 151.77 V2 34.873
 RC 88.274 GL .429 GP 31.67 ZAL 38.62 ZAP 71.29 ETS 349.62 ZAE 150.77 ETE 98.93 ZAC 118.61 ETC 286.15 CLP -67.86

PLANETOCENTRIC CONIC

C3 15.313 VHL 3.913 DLA 12.30 RAL 18.08 RAD 6567.6 VEL 11.692 PTH 2.06 VHP 3.534 DPA 30.47 RAP 357.76 ECC 1.2520
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 53 42 2544.58 -25.97 63.50 238.89 101.71 7 36 7 1944.6 -24.09 55.33
 90.00 22 2 12 4404.48 6.59 183.44 234.34 62.40 23 13 37 3804.5 2.84 176.76
 100.00 8 21 21 2261.92 -27.08 42.44 238.61 103.16 8 59 3 1661.9 -25.00 34.25
 100.00 23 17 15 4162.37 7.60 185.09 233.79 61.00 24 26 37 3562.4 3.67 158.50
 110.00 9 43 49 2003.88 -30.03 21.93 237.70 107.15 10 17 13 1403.9 -27.39 13.74
 110.00 0 15 12 3993.18 10.22 150.67 232.20 57.20 1 21 45 3393.2 5.82 144.33

DIFFERENTIAL CORRECTIONS

TDE -.2108 TRA -.4401 TC3 -.3874 BAU .2341
 RDE -.6980 RRA-1.7505 RC3 1.0761 FAU .11128
 FDE 4.7118 FRA 9.9504 FC3-6.2914 BSP 9958
 BDE .7291 BRA 1.8049 BC3 1.1437 FSP -4709

MID-COURSE EXECUTION ACCURACY

SGT 788.7 SGR 2938.5 SG3 1481.9
 RRT .7723 RRF -.9982 RTF -.7740
 SGB 3042.5 R23 -.0301 R13 -.9978
 SG1 3002.8 SG2 490.3 THA 77.96

ORBIT DETERMINATION ACCURACY

ST 366.7 SR 1290.1 SS 2510.7
 CRT .9953 CRS .9967 CST .9991
 LSA 2844.9 MSA 93.2 SSA 15.4
 EL1 1340.7 EL2 34.1 ALF 74.19

LAUNCH DATE NOV 22 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 27.876 GAL 5.59 AZL 89.00 HCA 203.33 SMA 130.18 ECC .16587 INC .9992 V1 30.157
 RP 108.70 LAP -.40 LOP 263.08 VP 37.714 GAP -1.00 AZP 90.92 TAL 149.64 TAP 352.97 RCA 108.58 APO 151.77 V2 34.862
 RC 70.456 GL 7.09 GP 28.83 ZAL 38.91 ZAP 75.57 ETS 353.34 ZAE 152.64 ETE 107.07 ZAC 116.38 ETC 285.76 CLP -73.48

PLANETOCENTRIC CONIC

C3 15.382 VHL 3.922 DLA 14.91 RAL 17.04 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 3.348 DPA 26.98 RAP 357.16 ECC 1.2531
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 39 2635.93 -27.07 69.96 238.95 98.65 7 10 35 2035.9 -25.59 61.60
 90.00 22 20 53 4315.15 3.75 178.41 233.62 61.91 23 32 49 3715.2 -.04 171.78
 100.00 7 56 3 2347.61 -28.26 48.53 238.72 100.16 8 35 11 1747.6 -26.57 40.14
 100.00 23 34 10 4078.70 4.81 160.44 233.04 60.46 24 42 9 3478.7 .84 153.90
 110.00 9 22 17 2077.79 -31.40 27.26 237.94 104.27 9 56 55 1477.8 -29.12 18.79
 110.00 0 28 22 3921.29 7.54 146.82 231.35 56.56 1 33 43 3321.3 3.09 140.56

DIFFERENTIAL CORRECTIONS

TDE -.0830 TRA -.1514 TC3 -.5485 BAU .2364
 RDE -.6819 RRA-1.6140 RC3 1.0103 FAU .12221
 FDE 5.5261 FRA10.7706 FC3-6.8784 BSP 9025
 BDE .6848 BRA 1.6211 BC3 1.1496 FSP -5247

MID-COURSE EXECUTION ACCURACY

SGT 495.9 SGR 2752.1 SG3 1638.0
 RRT .2266 RRF -.9976 RTF -.2286
 SGB 2796.4 R23 -.0048 R13 -.9976
 SG1 2754.5 SG2 482.6 THA 87.59

ORBIT DETERMINATION ACCURACY

ST 115.5 SR 1236.4 SS 2729.8
 CRT .9914 CRS .9960 CST .9870
 LSA 2997.3 MSA 101.2 SSA 15.1
 EL1 1241.7 EL2 15.1 ALF 64.71

LAUNCH DATE NOV 22 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

RL 147.74 LAL .00 LOL 59.76 VL 27.885 GAL 5.59 AZL 88.70 HCA 206.50 SMA 130.24 ECC .16543 INC 1.3036 V1 30.157
 RP 108.73 LAP -.58 LOP 266.25 VP 37.712 GAP -.56 AZP 91.17 TAL 149.53 TAP 356.03 RCA 108.69 APO 151.79 V2 34.853
 RC 72.672 GL 9.22 GP 28.45 ZAL 39.22 ZAP 80.37 ETS 356.46 ZAE 153.44 ETE 116.26 ZAC 114.63 ETC 285.44 CLP -79.24

PLANETOCENTRIC CONIC

C3 15.523 VHL 3.940 DLA 16.91 RAL 16.25 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 3.218 DPA 23.81 RAP 356.12 ECC 1.2555
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 39 2710.95 -27.72 75.35 239.14 96.02 6 49 50 2110.9 -26.60 66.87
 90.00 22 36 37 4244.24 1.47 174.45 233.31 61.72 23 47 21 3644.2 -2.33 167.82
 100.00 7 35 38 2417.52 -29.00 55.60 238.98 97.59 8 15 56 1817.5 -27.65 45.05
 100.00 23 48 19 4012.90 2.59 156.82 232.68 60.21 24 55 12 3412.9 -1.39 150.29
 110.00 9 5 10 2137.42 -32.31 31.67 238.30 101.81 9 40 47 1537.4 -30.35 23.00
 110.00 0 39 13 3885.77 5.45 143.88 230.91 56.20 1 43 38 3265.8 .97 137.66

DIFFERENTIAL CORRECTIONS

TDE .1085 TRA .1471 TC3 -.7151 BAU .2481
 RDE -.6470 RRA-1.4840 RC3 .9578 FAU .13275
 FDE 6.1757 FRA11.3388 FC3-7.4034 BSP 8430
 BDE .6580 BRA 1.4912 BC3 1.1953 FSP -5788

MID-COURSE EXECUTION ACCURACY

SGT 626.3 SGR 2557.8 SG3 1753.1
 RRT -.6727 RRF -.9987 RTF .6731
 SGB 2633.4 R23 .0263 R13 -.9963
 SG1 2593.4 SG2 457.0 THA 99.66

ORBIT DETERMINATION ACCURACY

ST 172.0 SR 1159.2 SS 2881.3
 CRT -.9727 CRS .9949 CST -.9896
 LSA 3108.5 MSA 111.0 SSA 14.3
 EL1 1171.2 EL2 39.5 ALF 98.22

LAUNCH DATE NOV 22 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC
 RL 147.74 LAL .00 LOL 59.76 VL 27.892 GAL 5.60 AZL 88.45 MCA 209.67 SMA 130.29 ECC .16525 INC 1.5472 V1 30.157
 RP 108.76 LAP -.77 LOP 269.42 VP 37.708 GAP -.13 AZP 91.34 TAL 149.40 TAP 359.07 RCA 108.76 APO 151.82 V2 34.844
 RC 74.919 GL 10.90 GP 24.36 ZAL 39.48 ZAP 85.51 ETS 359.08 ZAE 153.23 ETE 125.71 ZAC 113.19 ETC 285.14 CLP -85.07

PLANETOCENTRIC CONIC
 C3 15.718 VHL 3.965 DLA 18.49 RAL 15.66 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 3.132 DPA 20.86 RAP 354.81 ECC 1.2587
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 46 17 2774.59 -28.09 79.97 239.42 95.73 6 32 32 2174.6 -27.28 71.40
 90.00 22 50 18 4186.23 -.41 171.21 233.26 61.69 24 0 4 3586.2 -4.19 164.57
 100.00 7 18 45 2476.41 -29.45 57.91 239.29 95.36 8 0 2 1876.4 -28.40 49.27
 100.00 0 4 27 3959.64 .79 153.89 232.60 60.12 1 10 27 3359.6 -3.19 147.37
 110.00 8 51 14 2187.09 -32.94 35.40 238.76 99.68 9 27 41 1587.1 -31.26 26.59
 110.00 0 48 28 3821.72 3.78 141.57 230.73 56.00 1 52 10 3221.7 -.71 135.36

DIFFERENTIAL CORRECTIONS
 TDE .2938 TRA .4493 TC3 -.9024 BAU .2646
 RDE -.6109 RRA-1.3709 RC3 -.8779 FAU .13700
 FDE 8.7581 FRA11.7681 FC3-7.5459 BSP 7903
 BDE .6779 BRA 1.4426 BC3 1.2590 FSP -6061

MID-COURSE EXECUTION ACCURACY
 SGT 1077.5 SGR 2372.3 SC3 1838.5
 RRT -.9010 RRF -.9954 RTF .9031
 SGB 2805.6 R23 .0564 R13 -.9939
 SGI 2569.6 SGI 431.5 TMA 112.94

ORBIT DETERMINATION ACCURACY
 ST 472.1 SR 1082.9 SS 3017.6
 CRT -.9858 CRS .9935 CST -.9982
 LSA 3238.4 MSA 119.8 SSA 14.0
 EL1 1179.1 EL2 72.8 ALF 113.35

LAUNCH DATE NOV 22 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC
 RL 147.74 LAL .00 LOL 59.76 VL 27.896 GAL 5.63 AZL 88.25 MCA 212.84 SMA 130.32 ECC .16531 INC 1.7473 V1 30.157
 RP 108.78 LAP -.95 LOP 272.59 VP 37.704 GAP .29 AZP 91.47 TAL 149.23 TAP 2.07 RCA 108.77 APO 151.86 V2 34.835
 RC 77.194 GL 12.23 GP 22.47 ZAL 39.69 ZAP 90.84 ETS 1.29 ZAE 152.14 ETE 134.64 ZAC 111.95 ETC 284.85 CLP -90.91

PLANETOCENTRIC CONIC
 C3 15.958 VHL 3.995 DLA 19.77 RAL 15.23 RAD 6567.6 VEL 11.719 PTH 2.06 VHP 3.084 DPA 18.10 RAP 353.35 ECC 1.2626
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 41 2829.88 -28.27 84.01 239.77 91.72 6 17 51 2229.9 -27.73 75.38
 90.00 23 2 29 4137.81 -1.97 168.51 233.41 61.75 24 11 27 3537.8 -5.73 161.85
 100.00 7 4 33 2527.21 -29.72 61.67 239.70 93.40 7 46 40 1927.2 -28.93 52.93
 100.00 0 15 14 3915.72 -.70 151.48 232.71 60.12 1 20 30 3315.7 -4.67 144.93
 110.00 8 39 43 2229.49 -33.38 38.63 239.28 97.82 9 16 52 1629.5 -31.94 29.70
 110.00 0 56 34 3786.20 2.42 139.71 230.76 55.89 1 59 40 3186.2 -2.07 133.51

DIFFERENTIAL CORRECTIONS
 TDE .4930 TRA .7529 TC3-1.0845 BAU .2881
 RDE -.5822 RRA-1.2585 RC3 .8048 FAU .13945
 FDE 7.1514 FRA11.9479 FC3-7.5857 BSP 7877
 BDE .7477 BRA 1.4685 BC3 1.3505 FSP -6262

MID-COURSE EXECUTION ACCURACY
 SGT 1602.3 SGR 2177.7 SC3 1879.8
 RRT -.9538 RRF -.9938 RTF .9577
 SGB 2703.7 R23 .0725 R13 -.9917
 SGI 2675.1 SGI 392.0 TMA 125.95

ORBIT DETERMINATION ACCURACY
 ST 788.9 SR 990.8 SS 3097.3
 CRT -.9860 CRS .9915 CST -.9992
 LSA 3343.3 MSA 128.2 SSA 13.6
 EL1 1261.0 EL2 102.9 ALF 128.37

LAUNCH DATE NOV 22 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC
 RL 147.74 LAL .00 LOL 59.76 VL 27.899 GAL 5.67 AZL 88.08 MCA 216.01 SMA 130.34 ECC .16562 INC 1.9158 V1 30.157
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.698 GAP .72 AZP 91.55 TAL 149.03 TAP 5.04 RCA 108.75 APO 151.92 V2 34.827
 RC 79.493 GL 13.31 GP 20.74 ZAL 39.83 ZAP 96.23 ETS 3.15 ZAE 150.37 ETE 142.50 ZAC 110.84 ETC 284.56 CLP -96.66

PLANETOCENTRIC CONIC
 C3 16.242 VHL 4.030 DLA 20.82 RAL 14.94 RAD 6567.7 VEL 11.731 PTH 2.07 VHP 3.071 DPA 15.50 RAP 351.86 ECC 1.2673
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 17 17 2878.88 -28.32 87.59 240.20 89.92 6 5 16 2278.9 -28.03 78.94
 90.00 23 13 32 4096.85 -3.29 166.22 233.72 61.86 24 21 49 3496.9 -7.02 159.54
 100.00 6 52 29 2571.89 -29.85 64.98 240.18 91.66 7 35 21 1971.9 -29.30 56.22
 100.00 0 24 56 3879.07 -1.94 149.47 232.98 60.17 1 29 35 3279.1 -5.90 142.92
 110.00 8 30 7 2266.42 -33.69 41.47 239.87 96.16 9 7 54 1666.4 -32.47 32.45
 110.00 1 3 48 3757.30 1.32 138.20 230.94 55.84 2 6 25 3157.3 -3.17 132.00

DIFFERENTIAL CORRECTIONS
 TDE .6988 TRA 1.0516 TC3-1.2605 BAU .3166
 RDE -.5055 RRA-1.1495 RC3 .7327 FAU .13926
 FDE 7.3660 FRA11.9093 FC3-7.4230 BSP 8307
 BDE .8625 BRA 1.5579 BC3 1.4580 FSP -6346

MID-COURSE EXECUTION ACCURACY
 SGT 2139.5 SGR 1980.5 SC3 1880.3
 RRT -.9701 RRF -.9915 RTF .9763
 SGB 2915.5 R23 .0717 R13 -.9907
 SGI 2893.7 SGI 355.4 TMA 137.28

ORBIT DETERMINATION ACCURACY
 ST 1103.7 SR 889.9 SS 3130.7
 CRT -.9837 CRS .9885 CST -.9995
 LSA 3434.0 MSA 136.0 SSA 13.3
 EL1 1412.3 EL2 124.9 ALF 141.22

LAUNCH DATE NOV 22 1968

FLIGHT TIME 188.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC
 RL 147.74 LAL .00 LOL 59.76 VL 27.899 GAL 5.73 AZL 87.94 MCA 219.17 SMA 130.34 ECC .16617 INC 2.0603 V1 30.157
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.692 GAP 1.13 AZP 91.60 TAL 148.80 TAP 7.97 RCA 108.68 APO 152.00 V2 34.820
 RC 81.813 GL 14.19 GP 19.12 ZAL 39.90 ZAP 101.57 ETS 4.70 ZAE 148.12 ETE 149.07 ZAC 109.81 ETC 284.28 CLP -102.26

PLANETOCENTRIC CONIC
 C3 16.371 VHL 4.071 DLA 21.71 RAL 14.75 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 3.088 DPA 13.07 RAP 350.43 ECC 1.2727
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 41 2922.95 -28.27 90.81 240.70 88.31 5 54 23 2323.0 -28.21 82.15
 90.00 23 23 40 4061.95 -4.40 164.27 234.16 62.00 24 31 22 3462.0 -8.12 157.56
 100.00 6 42 11 2811.79 -29.89 67.95 240.72 90.10 7 25 42 2011.8 -29.56 59.16
 100.00 0 33 47 3848.35 -2.98 147.78 233.38 60.24 1 37 55 3248.4 -6.92 141.21
 110.00 8 22 7 2299.14 -33.90 44.00 240.53 94.68 9 0 26 1699.1 -32.88 34.92
 110.00 1 10 20 3733.77 .42 136.98 231.25 55.82 2 12 34 3133.8 -4.07 130.76

DIFFERENTIAL CORRECTIONS
 TDE .9037 TRA 1.3412 TC3-1.4246 BAU .3480
 RDE -.4443 RRA-1.0454 RC3 .6618 FAU .13642
 FDE 7.4164 FRA11.6800 FC3-7.1269 BSP 9109
 BDE 1.0088 BRA 1.7005 BC3 1.5708 FSP -6315

MID-COURSE EXECUTION ACCURACY
 SGT 2864.2 SGR 1785.8 SC3 1844.4
 RRT -.9751 RRF -.9882 RTF .9844
 SGB 3207.4 R23 .0600 R13 -.9908
 SGI 3190.3 SGI 330.5 TMA 146.42

ORBIT DETERMINATION ACCURACY
 ST 1413.4 SR 785.5 SS 3124.9
 CRT -.9793 CRS .9840 CST -.9997
 LSA 3515.6 MSA 143.2 SSA 13.0
 EL1 1611.0 EL2 139.4 ALF 151.21

LAUNCH DATE NOV 22 1968

FLIGHT TIME 190.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 511.241

RL 147.74 LAL .00 LOL 59.76 VL 27.898 GAL 5.80 AZL 87.81 HCA 222.34 SMA 130.33 ECC .16696 INC 2.1864 V1 30.157
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.685 GAP 1.55 AZP 91.62 TAL 148.54 TAP 10.88 RCA 108.57 APO 152.09 V2 34.813
 RC 84.153 GL 14.91 GP 17.82 ZAL 39.91 ZAP 106.78 ETS 5.99 ZAE 145.61 ETE 154.41 ZAC 108.84 ETC 284.00 CLP-107.63

PLANETOCENTRIC CONIC

C3 16.948 VHL 4.117 DLA 22.45 RAL 14.67 RAD 6567.7 VEL 11.761 PTH 2.08 VHP 3.133 DPA 10.84 RAP 349.11 ECC 1.2789
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 36 2963.08 -28.16 93.74 241.27 86.84 5 44 59 2363.1 -28.30 85.08
 90.00 23 33 3 4032.16 -5.35 162.59 234.72 62.15 24 40 15 3432.2 -9.04 155.85
 100.00 6 33 22 2647.86 -29.87 70.63 241.35 88.69 7 17 30 2047.9 -29.73 61.83
 100.00 0 41 55 3822.61 -3.85 146.37 233.89 60.33 1 45 37 3222.6 -7.77 139.77
 110.00 8 15 26 2328.52 -34.04 46.29 241.26 95.33 8 54 15 1728.5 -33.20 37.15
 110.00 1 16 20 3714.71 -.31 135.98 231.68 55.82 2 18 14 3114.7 -4.79 129.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1091 TRA 1.6187 TC3-1.5721 BAU .3808 SGT 3162.3 RGR 1599.2 SCS 1779.1 ST 1708.5 SR 681.7 SS 3086.4
 RDE -.3810 RRA -.9479 RC3 .5936 FAU .13131 RRT -.9749 RRF -.9838 RTF .9885 CRT -.9721 CRS .9770 CST -.9997
 FDE 7.3228 FRA11.3015 FC3-6.7075 BSP 10153 SGB 3543.7 R23 .0457 R13 -.9915 LSA 3589.8 MSA 149.9 SSA 12.8
 BDE 1.1727 BRA 1.8759 BC3 1.6804 FSP -6175 SGI 3529.3 SGT 318.8 THA 155.52 EL1 1833.4 EL2 149.1 ALF 158.65

LAUNCH DATE NOV 22 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 517.485

RL 147.74 LAL .00 LOL 59.76 VL 27.898 GAL 5.89 AZL 87.70 HCA 225.50 SMA 130.32 ECC .16799 INC 2.2980 V1 30.157
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.677 GAP 1.97 AZP 91.61 TAL 148.24 TAP 13.75 RCA 108.42 APO 152.21 V2 34.807
 RC 86.508 GL 15.48 GP 16.22 ZAL 39.86 ZAP 111.78 ETS 7.05 ZAE 142.98 ETE 158.66 ZAC 107.92 ETC 283.73 CLP-112.73

PLANETOCENTRIC CONIC

C3 17.376 VHL 4.188 DLA 23.08 RAL 14.67 RAD 6567.7 VEL 11.780 PTH 2.08 VHP 3.204 DPA 8.81 RAP 347.98 ECC 1.2860
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 52 2999.94 -27.99 96.43 241.92 85.51 5 36 52 2399.9 -28.32 87.78
 90.00 23 41 48 4006.81 -8.16 161.16 235.38 62.31 24 48 36 3406.8 -9.62 154.40
 100.00 6 25 51 2680.78 -29.79 73.07 242.04 87.41 7 10 32 2080.8 -29.83 64.27
 100.00 0 49 27 3801.19 -4.57 145.19 234.51 60.43 1 52 48 3201.2 -8.48 138.57
 110.00 8 9 55 2355.22 -34.13 48.37 242.07 92.11 8 49 10 1755.2 -33.46 39.19
 110.00 1 21 52 3899.52 -.89 135.19 232.22 55.83 2 23 32 3099.5 -5.37 128.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.3058 TRA 1.8826 TC3-1.6998 BAU .4136 SGT 3825.1 RGR 1425.0 SCS 1691.8 ST 1983.8 SR 582.3 SS 3022.0
 RDE -.3179 RRA -.8584 RC3 .5297 FAU .12446 RRT -.9713 RRF -.9778 RTF .9907 CRT -.9604 CRS .9659 CST -.9998
 FDE 7.1149 FRA10.8144 FC3-6.2010 BSP 11322 SGB 3895.2 R23 .0332 R13 -.9923 LSA 3658.2 MSA 156.2 SSA 12.6
 BDE 1.3459 BRA 2.0891 BC3 1.7804 FSP -5950 SGI 3882.3 SGT 316.7 THA 158.96 EL1 2061.6 EL2 156.2 ALF 164.16

LAUNCH DATE NOV 22 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 523.705

RL 147.74 LAL .00 LOL 59.76 VL 27.892 GAL 5.99 AZL 87.80 HCA 228.67 SMA 130.29 ECC .16927 INC 2.3982 V1 30.157
 RP 108.89 LAP -1.80 LOP 288.40 VP 37.669 GAP 2.38 AZP 91.58 TAL 147.91 TAP 16.58 RCA 108.23 APO 152.34 V2 34.802
 RC 88.877 GL 15.94 GP 14.94 ZAL 39.75 ZAP 116.52 ETS 7.92 ZAE 140.37 ETE 162.03 ZAC 107.02 ETC 283.50 CLP-117.53

PLANETOCENTRIC CONIC

C3 17.858 VHL 4.226 DLA 23.61 RAL 14.75 RAD 6567.7 VEL 11.800 PTH 2.09 VHP 3.298 DPA 7.00 RAP 347.05 ECC 1.2939
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 20 3034.03 -27.78 98.90 242.64 84.28 5 29 54 2434.0 -28.28 90.27
 90.00 23 50 1 3985.42 -6.83 159.96 236.13 62.45 24 56 26 3385.4 -10.47 155.16
 100.00 6 19 30 2711.06 -29.68 75.32 242.82 86.23 7 4 41 2111.1 -29.88 66.52
 100.00 0 56 27 3783.62 -5.16 144.21 235.22 60.52 1 59 31 3183.6 -9.05 137.59
 110.00 8 5 24 2379.72 -34.17 50.28 242.95 90.97 8 45 4 1779.7 -33.66 41.08
 110.00 1 27 2 3687.72 -1.34 134.57 232.85 55.84 2 28 30 3087.7 -5.81 128.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4938 TRA 2.1329 TC3-1.8060 BAU .4456 SGT 4048.9 RGR 1266.3 SCS 1590.7 ST 2236.2 SR 490.5 SS 2939.5
 RDE -.2589 RRA -.7775 RC3 .4711 FAU .11639 RRT -.9644 RRF -.9890 RTF .9820 CRT -.9416 CRS .9481 CST -.9998
 FDE 6.8259 FRA10.2612 FC3-5.6424 BSP 12528 SGB 4242.3 R23 .0239 R13 -.9928 LSA 3722.3 MSA 162.0 SSA 12.4
 BDE 1.5157 BRA 2.2702 BC3 1.8664 FSP -5661 SGI 4230.1 SGT 320.7 THA 163.12 EL1 2283.7 EL2 161.8 ALF 168.27

LAUNCH DATE NOV 22 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 529.899

RL 147.74 LAL .00 LOL 59.76 VL 27.886 GAL 6.11 AZL 87.51 HCA 231.83 SMA 130.25 ECC .17078 INC 2.4890 V1 30.157
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.661 GAP 2.80 AZP 91.54 TAL 147.55 TAP 19.39 RCA 108.00 APO 152.49 V2 34.797
 RC 91.256 GL 16.30 GP 13.76 ZAL 39.58 ZAP 120.99 ETS 8.65 ZAE 137.86 ETE 164.70 ZAC 106.17 ETC 283.29 CLP-122.01

PLANETOCENTRIC CONIC

C3 18.398 VHL 4.289 DLA 24.07 RAL 14.91 RAD 6567.7 VEL 11.823 PTH 2.09 VHP 3.413 DPA 5.40 RAP 346.34 ECC 1.3028
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 53 3065.69 -27.55 101.19 243.45 83.16 5 23 59 2465.7 -28.21 92.58
 90.00 0 1 37 3967.68 -7.39 158.95 236.98 62.59 1 7 45 3367.7 -11.01 152.14
 100.00 6 14 12 2759.05 -29.53 77.39 243.68 85.15 6 59 51 2139.0 -29.89 68.60
 100.00 1 3 0 3789.55 -5.83 143.44 236.02 60.59 2 5 49 3169.6 -9.51 136.79
 110.00 8 1 48 2402.39 -34.18 52.05 243.91 89.93 8 41 51 1802.4 -33.82 42.83
 110.00 1 31 53 3678.97 -1.68 134.12 233.56 55.85 2 33 12 3079.0 -6.15 127.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6606 TRA 2.3590 TC3-1.8108 BAU .4815 SGT 4417.9 RGR 1121.4 SCS 1476.1 ST 2448.4 SR 404.1 SS 2821.5
 RDE -.1955 RRA -.7022 RC3 .4267 FAU .11043 RRT -.9537 RRF -.9973 RTF .9930 CRT -.9085 CRS .9168 CST -.9998
 FDE 6.4275 FRA 9.6249 FC3-5.1965 BSP 15983 SGB 4557.9 R23 .0167 R13 -.9935 LSA 3753.7 MSA 168.1 SSA 12.1
 BDE 1.6720 BRA 2.4613 BC3 1.9577 FSP -5461 SGI 4546.1 SGT 327.9 THA 166.32 EL1 2475.9 EL2 167.0 ALF 171.43

LAUNCH DATE NOV 22 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 536.071

RL 147.74 LAL .00 LOL 59.76 VL 27.879 GAL 6.25 AZL 87.43 HCA 234.99 SMA 130.20 ECC .17255 INC 2.5722 V1 30.157
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.652 GAP 3.21 AZP 91.48 TAL 147.16 TAP 22.15 RCA 107.73 APO 152.67 V2 34.793
 RC 93.644 GL 16.36 GP 12.68 ZAL 39.36 ZAP 125.16 ETS 9.25 ZAE 135.49 ETE 166.81 ZAC 105.34 ETC 203.12 CLP-126.18

PLANETOCENTRIC CONIC

C3 19.003 VHL 4.359 DLA 24.46 RAL 15.13 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 3.546 DPA 4.03 RAP 345.86 ECC 1.3127
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 28 3095.23 -27.29 103.31 244.34 82.13 5 19 3 2495.2 -28.10 94.74
 90.00 0 8 49 3953.35 -7.84 158.14 237.91 82.70 1 14 43 3353.3 -11.44 151.30
 100.00 6 9 52 2765.09 -29.37 79.30 244.82 84.16 6 55 57 2165.1 -29.87 70.53
 100.00 1 9 7 3758.72 -6.00 142.03 236.91 80.66 2 11 45 3158.7 -9.86 136.18
 110.00 7 59 2 2423.56 -34.17 53.71 244.96 88.95 8 39 25 1823.6 -33.94 44.47
 110.00 1 36 26 3673.01 -1.90 135.81 234.37 55.86 2 37 39 3073.0 -8.37 127.57

DIFFERENTIAL CORRECTIONS

TDE 1.8364 TRA 2.5942 TC3-1.9577 BAU .5063
 RDE -.1439 RRA -.6414 RC3 .3733 FAU .09928
 FDE 6.0978 FRA 9.0771 FC3-4.5229 B8P 14921
 BDE 1.8420 BRA 2.6723 BC3 1.9930 F8P -5017

MID-COURSE EXECUTION ACCURACY

SGT 4771.8 SGR 999.7 SCS 1370.4
 RRT -.9393 RRF -.9421 RTF .9932
 SGB 4875.4 R23 .0130 R13 -.9935
 SGI 4883.8 SGT 336.4 THA 168.81

ORBIT DETERMINATION ACCURACY

ST 2662.9 SR 336.2 SS 2735.1
 CRT -.8590 CRS .8692 CST -.9998
 LSA 3828.2 MSA 175.0 SSA 12.3
 EL1 2678.6 EL2 171.1 ALF 173.78

LAUNCH DATE NOV 22 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 542.217

RL 147.74 LAL .00 LOL 59.76 VL 27.871 GAL 6.40 AZL 87.35 HCA 238.16 SMA 130.14 ECC .17457 INC 2.6492 V1 30.157
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.643 GAP 3.63 AZP 91.40 TAL 146.73 TAP 24.89 RCA 107.42 APO 152.86 V2 34.789
 RC 96.038 GL 16.77 GP 11.71 ZAL 39.09 ZAP 129.05 ETS 9.77 ZAE 133.29 ETE 168.49 ZAC 104.55 ETC 282.99 CLP-130.04

PLANETOCENTRIC CONIC

C3 19.678 VHL 4.436 DLA 24.79 RAL 15.42 RAD 6567.8 VEL 11.877 PTH 2.11 VHP 3.696 DPA 2.87 RAP 345.61 ECC 1.3238
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 23 1 3122.82 -27.02 105.28 245.31 81.17 5 15 4 2522.8 -27.96 96.74
 90.00 0 15 33 3942.26 -8.18 157.50 238.92 82.80 1 21 16 3342.3 -11.77 150.86
 100.00 6 8 26 2789.37 -29.19 81.09 245.85 83.23 6 52 56 2189.4 -29.82 72.34
 100.00 1 14 49 3750.95 -6.25 142.40 237.87 80.71 2 17 20 3150.9 -10.11 135.74
 110.00 7 57 0 2443.44 -34.13 55.26 246.09 88.03 8 37 44 1843.4 -34.03 46.01
 110.00 1 40 44 3689.64 -2.03 133.63 235.26 55.87 2 41 54 3069.6 -6.50 127.39

DIFFERENTIAL CORRECTIONS

TDE 1.9985 TRA 2.8164 TC3-1.9918 BAU .5311
 RDE -.0944 RRA -.5889 RC3 .3298 FAU .08954
 FDE 5.7337 FRA 8.5203 FC3-3.9394 B8P 15901
 BDE 2.0008 BRA 2.8789 BC3 2.0190 F8P -4829

MID-COURSE EXECUTION ACCURACY

SGT 5083.4 SGR 893.1 SCS 1283.9
 RRT -.9202 RRF -.9221 RTF .9933
 SGB 5161.3 R23 .0100 R13 -.9934
 SGI 5149.7 SGT 345.2 THA 170.78

ORBIT DETERMINATION ACCURACY

ST 2848.0 SR 278.7 SS 2635.0
 CRT -.7785 CRS .7892 CST -.9998
 LSA 3885.9 MSA 177.8 SSA 12.3
 EL1 2856.2 EL2 175.1 ALF 175.64

LAUNCH DATE NOV 22 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 548.335

RL 147.74 LAL .00 LOL 59.76 VL 27.882 GAL 6.57 AZL 87.28 HCA 241.32 SMA 130.08 ECC .17685 INC 2.7211 V1 30.157
 RP 108.94 LAP -2.39 LOP 301.03 VP 37.634 GAP 4.05 AZP 91.31 TAL 146.28 TAP 27.59 RCA 107.07 APO 153.08 V2 34.787
 RC 98.436 GL 16.80 GP 10.83 ZAL 38.77 ZAP 132.66 ETS 10.22 ZAE 131.28 ETE 169.84 ZAC 103.78 ETC 282.90 CLP-135.82

PLANETOCENTRIC CONIC

C3 20.428 VHL 4.520 DLA 25.06 RAL 15.76 RAD 6567.8 VEL 11.908 PTH 2.12 VHP 3.862 DPA 1.90 RAP 345.58 ECC 1.3382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 19 29 3148.57 -26.73 107.12 246.36 80.30 5 11 58 2548.8 -27.80 98.61
 90.00 0 21 49 3934.33 -8.43 157.05 240.00 82.87 1 27 23 3334.3 -12.00 150.20
 100.00 6 3 52 2812.06 -28.99 82.75 246.75 82.38 6 50 44 2212.1 -29.74 74.02
 100.00 1 20 8 3748.07 -6.42 142.13 238.91 80.74 2 22 34 3148.1 -10.27 135.46
 110.00 7 35 41 2462.22 -34.08 56.72 247.30 87.18 8 36 43 1882.2 -34.10 47.48
 110.00 1 44 46 3668.68 -2.07 133.58 236.22 55.87 2 45 57 3068.7 -6.53 127.34

DIFFERENTIAL CORRECTIONS

TDE 2.1500 TRA 3.0304 TC3-2.0096 BAU .5546
 RDE -.0482 RRA -.5389 RC3 .2929 FAU .08057
 FDE 5.3649 FRA 7.9833 FC3-3.4147 B8P 16842
 BDE 2.1505 BRA 3.0779 BC3 2.0308 F8P -4270

MID-COURSE EXECUTION ACCURACY

SGT 5358.4 SGR 801.6 SCS 1181.1
 RRT -.8953 RRF -.8985 RTF .9932
 SGB 5410.0 R23 .0077 R13 -.9933
 SGI 5406.4 SGT 353.9 THA 172.34

ORBIT DETERMINATION ACCURACY

ST 3008.3 SR 234.5 SS 2530.4
 CRT -.6446 CRS .6605 CST -.9998
 LSA 3933.7 MSA 182.4 SSA 12.4
 EL1 3012.1 EL2 179.0 ALF 177.11

LAUNCH DATE NOV 22 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 554.426

RL 147.74 LAL .00 LOL 59.76 VL 27.852 GAL 6.75 AZL 87.21 HCA 244.48 SMA 130.01 ECC .17941 INC 2.7887 V1 30.157
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.625 GAP 4.48 AZP 91.20 TAL 145.79 TAP 30.27 RCA 106.68 APO 153.33 V2 34.785
 RC 100.837 GL 16.97 GP 10.04 ZAL 38.41 ZAP 136.00 ETS 10.63 ZAE 129.44 ETE 170.92 ZAC 103.05 ETC 282.84 CLP-136.94

PLANETOCENTRIC CONIC

C3 21.282 VHL 4.611 DLA 25.29 RAL 16.16 RAD 6567.8 VEL 11.943 PTH 2.13 VHP 4.043 DPA 1.12 RAP 345.75 ECC 1.3499
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 16 51 3172.82 -26.45 108.82 247.50 79.49 5 9 43 2572.6 -27.63 100.35
 90.00 0 27 37 3929.47 -8.58 156.77 241.18 82.91 1 33 6 3329.5 -12.15 149.91
 100.00 6 2 5 2833.34 -28.79 84.29 247.94 81.59 6 49 18 2233.3 -29.65 75.60
 100.00 1 25 4 3743.98 -6.49 142.02 240.03 80.74 2 27 28 3144.0 -10.34 135.34
 110.00 7 34 59 2480.08 -34.01 58.11 248.59 88.34 8 36 19 1880.1 -34.14 48.87
 110.00 1 48 39 3670.01 -2.02 133.85 237.26 55.87 2 49 49 3070.0 -6.48 127.41

DIFFERENTIAL CORRECTIONS

TDE 2.2933 TRA 3.2401 TC3-2.0105 BAU .5783
 RDE -.0052 RRA -.4889 RC3 .2609 FAU .07223
 FDE 5.0086 FRA 7.4800 FC3-2.8412 B8P 17711
 BDE 2.2934 BRA 3.2780 BC3 2.0274 F8P -3931

MID-COURSE EXECUTION ACCURACY

SGT 5602.3 SGR 724.1 SCS 1064.5
 RRT -.8641 RRF -.8647 RTF .9931
 SGB 5648.9 R23 .0058 R13 -.9931
 SGI 5637.3 SGT 362.1 THA 173.60

ORBIT DETERMINATION ACCURACY

ST 3147.7 SR 205.1 SS 2426.5
 CRT -.4531 CRS .4722 CST -.9997
 LSA 3975.3 MSA 186.7 SSA 12.4
 EL1 3149.1 EL2 182.8 ALF 178.30

LAUNCH DATE NOV 22 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC
 RL 147.74 LAL .00 LOL 59.76 VL 27.841 GAL 6.96 AZL 87.15 HCA 247.64 SMA 129.93 ECC .10224 INC 2.0529 V1 30.157
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.615 GAP 4.01 AZP 91.09 TAL 145.28 TAP 32.92 RCA 106.25 APO 153.61 V2 34.784
 RC 103.240 GL 16.98 GP 9.34 ZAL 30.01 ZAP 139.11 ETS 11.01 ZAE 127.78 ETE 171.81 ZAC 102.34 ETC 282.82 CLP-140.01

PLANETOCENTRIC CONIC
 C3 22.188 VHL 4.710 DLA 25.48 RAL 16.60 RAD 6567.9 VEL 11.982 PTH 2.14 VHP 4.238 DPA .50 RAP 346.10 ECC 1.3652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 4 3193.03 -26.16 110.59 248.75 76.75 5 8 19 2595.0 -27.45 101.96
 90.00 0 32 56 3927.64 -0.64 156.67 242.30 62.93 1 38 24 3327.6 -12.20 149.80
 100.00 6 1 3 2853.31 -28.58 65.74 249.22 80.85 6 48 37 2253.3 -29.55 77.07
 100.00 1 29 37 3744.59 -6.47 142.05 241.21 60.75 2 32 2 3144.6 -10.32 135.38
 110.00 7 54 53 2497.15 -33.93 59.44 249.96 85.56 8 36 31 1897.1 -34.17 50.20
 110.00 1 52 17 3673.52 -1.88 133.83 239.37 55.86 2 53 30 3073.5 -6.35 127.60

DIFFERENTIAL CORRECTIONS
 TDE 2.4297 TRA 3.4482 TC3-1.9949 BAU .5958
 RDE .0348 RRA -.4601 RC3 .2329 FAU .06445
 FDE 4.6708 FRA 7.0171 FC3-2.5148 B8P 18510
 BDE 2.4300 BRA 3.4788 BC3 2.0085 F8P -3614

MID-COURSE EXECUTION ACCURACY
 SGT 5818.3 SGR 659.0 SCS 974.8
 RRT -.8262 RRF -.8260 RTF .9928
 SGB 5855.5 R23 .0043 R13 -.9929
 SGI 5845.8 S62 369.7 THA 174.63

ORBIT DETERMINATION ACCURACY
 ST 3268.1 SR 190.9 SS 2325.1
 CRT -.2158 CRS .2373 CST -.9997
 LSA 4010.8 MSA 190.7 S3A 12.5
 EL1 3268.4 EL2 186.3 ALF 179.28

LAUNCH DATE NOV 22 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC
 RL 147.74 LAL .00 LOL 59.76 VL 27.829 GAL 7.19 AZL 87.09 HCA 250.80 SMA 129.84 ECC .10537 INC 2.9143 V1 30.157
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.608 GAP 5.35 AZP 90.96 TAL 144.74 TAP 35.54 RCA 105.77 APO 153.91 V2 34.783
 RC 105.643 GL 16.94 GP 8.70 ZAL 37.57 ZAP 142.00 ETS 11.38 ZAE 126.29 ETE 172.53 ZAC 101.65 ETC 282.82 CLP-142.86

PLANETOCENTRIC CONIC
 C3 23.216 VHL 4.818 DLA 25.62 RAL 17.09 RAD 6567.9 VEL 12.025 PTH 2.15 VHP 4.445 DPA .03 RAP 346.63 ECC 1.3821
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 7 3219.88 -25.87 111.85 250.04 78.07 5 7 43 2615.9 -27.26 103.46
 90.00 0 37 48 3928.80 -0.60 156.74 243.06 62.92 1 43 15 3328.8 -12.17 149.87
 100.00 6 0 45 2872.10 -28.37 67.10 250.50 80.17 6 48 37 2272.1 -29.44 78.46
 100.00 1 33 49 3747.81 -6.38 142.23 242.45 60.73 2 36 17 3147.8 -10.21 135.56
 110.00 7 55 21 2513.55 -33.84 60.71 251.42 84.82 8 37 14 1913.5 -34.18 51.48
 110.00 1 55 43 3679.13 -1.67 134.13 239.55 55.85 2 57 2 3079.1 -6.14 127.89

DIFFERENTIAL CORRECTIONS
 TDE 2.5607 TRA 3.6572 TC3-1.9652 BAU .6133
 RDE .0721 RRA -.4877 RC3 .2082 FAU .05730
 FDE 4.3558 FRA 6.5935 FC3-2.1369 B8P 19232
 BDE 2.5617 BRA 3.6821 BC3 1.9762 F8P -3319

MID-COURSE EXECUTION ACCURACY
 SGT 6010.2 SGR 604.8 SCS 892.4
 RRT -.7811 RRF -.7802 RTF .9925
 SGB 6040.5 R23 .0030 R13 -.9925
 SGI 6028.8 S62 376.5 THA 175.49

ORBIT DETERMINATION ACCURACY
 ST 3371.8 SR 189.8 SS 2227.6
 CRT .0250 CRS -.0023 CST -.9997
 LSA 4041.0 MSA 194.5 S3A 12.6
 EL1 3371.8 EL2 189.8 ALF .08

LAUNCH DATE NOV 22 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 147.74 LAL .00 LOL 59.76 VL 27.816 GAL 7.43 AZL 87.03 HCA 253.96 SMA 129.75 ECC .10880 INC 2.9733 V1 30.157
 RP 108.95 LAP -2.88 LOP 313.70 VP 37.597 GAP 5.80 AZP 90.82 TAL 144.17 TAP 38.13 RCA 105.25 APO 154.25 V2 34.783
 RC 108.045 GL 16.85 GP 8.14 ZAL 37.09 ZAP 144.60 ETS 11.75 ZAE 124.94 ETE 173.14 ZAC 100.99 ETC 282.85 CLP-145.52

PLANETOCENTRIC CONIC
 C3 24.356 VHL 4.935 DLA 25.73 RAL 17.61 RAD 6568.0 VEL 12.072 PTH 2.16 VHP 4.666 DPA -.29 RAP 347.31 ECC 1.4088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 58 3235.23 -25.59 113.20 251.43 77.45 5 7 54 2635.2 -27.07 104.85
 90.00 0 42 7 3932.92 -0.47 156.97 245.00 62.88 1 47 40 3332.9 -12.05 150.11
 100.00 6 1 7 2889.81 -28.16 68.37 252.02 79.53 6 49 17 2289.8 -29.32 79.76
 100.00 1 37 39 3755.58 -6.17 142.55 243.76 60.69 2 40 13 3153.6 -10.03 135.89
 110.00 7 56 19 2529.40 -33.73 61.94 252.95 84.10 8 38 28 1929.4 -34.18 52.72
 110.00 1 56 57 3686.75 -1.38 134.52 240.79 55.84 3 0 24 3086.8 -5.85 128.29

DIFFERENTIAL CORRECTIONS
 TDE 2.6874 TRA 3.8891 TC3-1.9218 BAU .6286
 RDE .1072 RRA -.3989 RC3 .1863 FAU .05070
 FDE 4.0651 FRA 6.2095 FC3-1.8020 B8P 19886
 BDE 2.6896 BRA 3.8896 BC3 1.9306 F8P -3048

MID-COURSE EXECUTION ACCURACY
 SGT 6180.3 SGR 580.0 SCS 817.3
 RRT -.7292 RRF -.7275 RTF .9922
 SGB 6205.8 R23 .0018 R13 -.9922
 SGI 6195.8 S62 382.4 THA 176.21

ORBIT DETERMINATION ACCURACY
 ST 3460.5 SR 198.3 SS 2134.8
 CRT .2295 CRS -.2067 CST -.9997
 LSA 4066.0 MSA 197.9 S3A 12.6
 EL1 3460.8 EL2 195.0 ALF .76

LAUNCH DATE NOV 22 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC
 RL 147.74 LAL .00 LOL 59.76 VL 27.802 GAL 7.70 AZL 86.97 HCA 257.12 SMA 129.65 ECC .19257 INC 3.0304 V1 30.157
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.587 GAP 6.25 AZP 90.68 TAL 143.58 TAP 40.70 RCA 104.69 APO 154.62 V2 34.784
 RC 110.446 GL 16.72 GP 7.63 ZAL 36.59 ZAP 147.20 ETS 12.14 ZAE 123.73 ETE 175.64 ZAC 100.34 ETC 282.90 CLP-148.00

PLANETOCENTRIC CONIC
 C3 25.623 VHL 5.082 DLA 25.81 RAL 18.18 RAD 6568.0 VEL 12.124 PTH 2.17 VHP 4.900 DPA -.50 RAP 348.13 ECC 1.4217
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 37 3253.17 -25.32 114.45 252.91 76.88 5 8 50 2653.2 -26.88 106.12
 90.00 0 45 58 3939.87 -0.26 157.37 246.40 62.82 1 51 38 3340.0 -11.84 150.52
 100.00 6 2 8 2906.54 -27.95 69.57 253.54 78.94 6 50 34 2306.5 -29.19 80.99
 100.00 1 41 8 3761.83 -5.89 143.01 245.12 60.64 2 43 49 3181.8 -9.76 136.36
 110.00 7 57 45 2544.79 -33.82 63.12 254.56 83.40 8 40 10 1944.8 -34.16 53.92
 110.00 2 2 0 3696.34 -1.01 135.02 242.09 55.83 3 3 36 3096.3 -5.49 128.80

DIFFERENTIAL CORRECTIONS
 TDE 2.8101 TRA 4.0854 TC3-1.8672 BAU .6422
 RDE .1406 RRA -.3729 RC3 .1667 FAU .04489
 FDE 3.7971 FRA 5.8619 FC3-1.3100 B8P 20485
 BDE 2.8136 BRA 4.1024 BC3 1.8746 F8P -2799

MID-COURSE EXECUTION ACCURACY
 SGT 6330.6 SGR 523.1 SCS 748.9
 RRT -.6708 RRF -.6682 RTF .9918
 SGB 6352.2 R23 .0006 R13 -.9918
 SGI 6340.3 S62 387.3 THA 176.82

ORBIT DETERMINATION ACCURACY
 ST 3534.8 SR 212.4 SS 2046.3
 CRT .3649 CRS -.3629 CST -.9997
 LSA 4084.9 MSA 201.0 S3A 12.7
 EL1 3535.8 EL2 196.0 ALF 1.33

LAUNCH DATE NOV 22 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 584.409

RL 147.74 LAL .00 LOL 59.76 VL 27.788 GAL 8.00 AZL 86.91 HCA 260.28 SMA 129.55 ECC .19668 INC 3.0862 V1 30.157
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.578 GAP 6.72 AZP 90.52 TAL 142.98 TAP 43.26 RCA 104.07 APO 155.03 V2 34.786
 RC 112.844 GL 16.56 GP 7.17 ZAL 36.05 ZAP 149.55 ETS 12.55 ZAE 122.64 ETE 174.07 ZAC 99.72 ETC 282.96 CLP-150.32

PLANETOCENTRIC CONIC

C3 27.031 VHL 5.199 DLA 25.88 RAL 18.77 RAD 6568.1 VEL 12.182 PTH 2.19 VHP 5.147 DPA -.59 RAP 349.07 ECC 1.4449
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 0 3269.76 -23.06 113.59 254.47 76.37 5 10 30 2669.6 -26.69 107.30
 90.00 0 49 19 3949.88 -7.95 157.94 247.85 62.73 1 55 9 3349.9 -11.54 151.10
 100.00 6 3 45 2922.38 -27.73 90.70 255.14 78.38 6 52 27 2322.4 -29.06 82.15
 100.00 1 44 15 3772.50 -5.54 143.60 246.54 60.58 2 47 7 3172.5 -9.41 136.96
 110.00 7 59 36 2559.81 -33.49 64.28 258.25 82.73 8 42 18 1959.8 -34.14 55.09
 110.00 2 4 51 3707.83 -.57 135.82 243.46 55.82 3 6 39 3107.8 -5.05 129.40

DIFFERENTIAL CORRECTIONS

TDE 2.9297 TRA 4.3075 TC3-1.8040 BAU .8542
 RDE .1724 RRA -.3490 RC3 .1491 FAU .03929
 FDE 3.5513 FRA 5.5475 FC3-1.2504 B&P 21052
 BDE 2.9348 BRA 4.3216 BC3 1.8101 F&P -2575

MID-COURSE EXECUTION ACCURACY

SGT 6482.9 SGR 492.8 SG3 686.8
 RRT -.6067 RRF -.6033 RTF .9913
 SGB 6481.8 R23 -.0004 R13 -.9913
 SGI 6489.8 SGE 391.4 THA 177.34

ORBIT DETERMINATION ACCURACY

ST 3596.0 SR 229.3 SS 1962.2
 CRT .4976 CR8 -.4765 CST -.9997
 LSA 4097.9 MSA 203.8 SSA 12.7
 EL1 3597.8 EL2 198.8 ALF 1.82

LAUNCH DATE NOV 22 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 590.295

RL 147.74 LAL .00 LOL 59.76 VL 27.773 GAL 8.32 AZL 86.86 HCA 263.44 SMA 129.45 ECC .20117 INC 3.1409 V1 30.157
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.570 GAP 7.21 AZP 90.56 TAL 142.35 TAP 45.79 RCA 103.41 APO 155.49 V2 34.789
 RC 115.239 GL 16.35 GP 8.76 ZAL 35.49 ZAP 151.75 ETS 13.00 ZAE 121.66 ETE 174.44 ZAC 99.10 ETC 283.05 CLP-152.51

PLANETOCENTRIC CONIC

C3 28.598 VHL 5.548 DLA 25.88 RAL 19.39 RAD 6568.1 VEL 12.246 PTH 2.20 VHP 5.407 DPA -.58 RAP 350.13 ECC 1.4707
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 5 3265.11 -24.81 116.65 256.12 75.89 5 12 51 2685.1 -26.51 108.39
 90.00 0 52 11 3062.61 -7.55 159.66 249.34 62.63 1 58 14 3362.6 -11.16 151.84
 100.00 6 5 56 2937.43 -27.52 91.77 256.82 77.85 6 54 54 2337.4 -28.92 83.24
 100.00 1 47 2 3785.52 -5.10 144.32 248.01 60.51 2 50 7 3185.5 -8.99 137.69
 110.00 8 1 55 2574.54 -33.36 65.41 258.02 82.07 8 44 50 1974.5 -34.10 56.24
 110.00 2 7 32 3721.18 -.06 136.32 244.88 55.82 3 9 33 3121.2 -4.55 150.10

DIFFERENTIAL CORRECTIONS

TDE 3.0466 TRA 4.5560 TC3-1.7325 BAU .8644
 RDE .2031 RRA -.3260 RC3 .1332 FAU .03440
 FDE 3.3258 FRA 5.2638 FC3-1.0414 B&P 21589
 BDE 3.0533 BRA 4.5486 BC3 1.7376 F&P -2374

MID-COURSE EXECUTION ACCURACY

SGT 6578.4 SGR 488.1 SG3 630.3
 RRT -.5378 RRF -.5337 RTF .9909
 SGB 6585.0 R23 -.0014 R13 -.9909
 SGI 6583.2 SGE 394.4 THA 177.80

ORBIT DETERMINATION ACCURACY

ST 3644.8 SR 247.0 SS 1882.4
 CRT .5786 CR8 -.5884 CST -.9997
 LSA 4104.4 MSA 206.2 SSA 12.7
 EL1 3647.6 EL2 201.3 ALF 2.25

LAUNCH DATE NOV 22 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 596.137

RL 147.74 LAL .00 LOL 59.76 VL 27.757 GAL 8.66 AZL 86.81 HCA 266.60 SMA 129.34 ECC .20606 INC 3.1949 V1 30.157
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.561 GAP 7.71 AZP 90.19 TAL 141.71 TAP 46.31 RCA 102.69 APO 155.99 V2 34.792
 RC 117.630 GL 16.12 GP 8.39 ZAL 34.91 ZAP 153.83 ETS 13.50 ZAE 120.77 ETE 174.76 ZAC 98.50 ETC 283.14 CLP-154.57

PLANETOCENTRIC CONIC

C3 30.345 VHL 5.509 DLA 25.87 RAL 20.04 RAD 6568.2 VEL 12.317 PTH 2.22 VHP 5.682 DPA -.49 RAP 351.27 ECC 1.4994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 20 51 3299.33 -24.57 117.62 257.84 75.46 5 15 50 2699.3 -26.33 109.39
 90.00 0 54 35 3978.07 -7.06 159.54 250.89 62.51 2 0 53 3378.1 -10.69 152.74
 100.00 6 8 39 2951.70 -27.31 92.78 258.58 77.36 6 57 51 2351.8 -28.78 84.29
 100.00 1 49 28 3800.84 -4.59 145.17 249.53 60.43 2 52 48 3200.8 -8.49 138.55
 110.00 8 4 35 2589.05 -33.22 66.52 259.86 81.43 8 47 44 1989.1 -34.05 57.37
 110.00 2 10 1 3736.35 .52 137.11 246.36 55.82 3 12 17 3136.3 -3.97 150.90

DIFFERENTIAL CORRECTIONS

TDE 3.1619 TRA 4.7755 TC3-1.6547 BAU .6730
 RDE .2329 RRA -.3058 RC3 .1188 FAU .02999
 FDE 3.1800 FRA 5.0066 FC3 -.8557 B&P 22104
 BDE 3.1705 BRA 4.7852 BC3 1.6589 F&P -2193

MID-COURSE EXECUTION ACCURACY

SGT 6679.2 SGR 448.0 SG3 579.2
 RRT -.4655 RRF -.4607 RTF .9905
 SGB 6694.2 R23 -.0023 R13 -.9905
 SGI 6682.4 SGE 396.3 THA 178.21

ORBIT DETERMINATION ACCURACY

ST 3682.6 SR 264.5 SS 1807.1
 CRT .6375 CR8 -.6183 CST -.9997
 LSA 4105.3 MSA 208.3 SSA 12.6
 EL1 3686.4 EL2 203.5 ALF 2.63

LAUNCH DATE NOV 22 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 601.930

RL 147.74 LAL .00 LOL 59.76 VL 27.741 GAL 9.04 AZL 86.75 HCA 269.77 SMA 129.23 ECC .21139 INC 3.2486 V1 30.157
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.553 GAP 8.23 AZP 90.01 TAL 141.06 TAP 50.82 RCA 101.91 APO 156.54 V2 34.796
 RC 120.015 GL 15.85 GP 8.08 ZAL 34.31 ZAP 155.80 ETS 14.06 ZAE 119.96 ETE 175.04 ZAC 97.91 ETC 283.23 CLP-156.53

PLANETOCENTRIC CONIC

C3 32.294 VHL 5.683 DLA 25.83 RAL 20.70 RAD 6568.3 VEL 12.396 PTH 2.24 VHP 5.973 DPA -.31 RAP 352.50 ECC 1.5315
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 14 3312.53 -24.34 118.52 259.64 75.07 5 19 26 2712.5 -28.16 110.32
 90.00 0 56 30 3996.17 -6.49 160.56 252.47 62.50 2 3 7 3396.2 -10.14 153.79
 100.00 6 11 51 2863.55 -27.11 93.75 260.41 78.89 7 1 17 2363.5 -28.64 85.29
 100.00 1 51 34 3818.36 -3.99 146.13 251.10 60.35 2 55 12 3218.4 -7.91 139.54
 110.00 8 7 36 2603.41 -33.07 67.81 261.77 80.80 8 50 59 2003.4 -33.98 58.49
 110.00 2 12 18 3753.29 1.17 137.99 247.89 55.83 3 14 52 3153.3 -3.32 151.79

DIFFERENTIAL CORRECTIONS

TDE 3.2773 TRA 5.0257 TC3-1.5700 BAU .6793
 RDE .2619 RRA -.2855 RC3 .1055 FAU .02595
 FDE 2.9333 FRA 4.7801 FC3 -.6957 B&P 22585
 BDE 3.2878 BRA 5.0338 BC3 1.5735 F&P -2027

MID-COURSE EXECUTION ACCURACY

SGT 6767.3 SGR 431.7 SG3 532.9
 RRT -.3907 RRF -.3853 RTF .9901
 SGB 6781.0 R23 -.0031 R13 -.9901
 SGI 6769.4 SGE 397.2 THA 178.57

ORBIT DETERMINATION ACCURACY

ST 3711.3 SR 281.0 SS 1736.8
 CRT .6812 CR8 -.6628 CST -.9997
 LSA 4101.8 MSA 210.0 SSA 12.5
 EL1 3716.2 EL2 205.4 ALF 2.96

LAUNCH DATE NOV 22 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 601.933

RL 147.74 LAL .00 LOL 59.76 VL 27.741 GAL 9.04 AZL 86.75 MCA 269.77 SMA 129.23 ECC .21139 INC 3.2486 V1 30.157
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.553 GAP 8.23 AZP 90.01 TAL 141.06 TAP 50.82 RCA 101.91 APO 156.54 V2 34.796
 RC 120.015 GL 15.85 GP 6.06 ZAL 34.31 ZAP 155.80 ETS 14.06 ZAE 119.96 ETE 175.04 ZAC 86.23 ETC 166.47 CLP-156.53

PLANETOCENTRIC CONIC

C3 32.295 VHL 5.683 DLA 25.83 RAL 20.70 RAD 6568.3 VEL 12.396 PTH 2.24 VHP 5.973 DPA -.31 RAP 352.51 ECC 1.5315
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 14 3312.55 -24.34 118.52 259.64 75.07 5 19 26 2712.6 -26.16 110.32
 90.00 0 56 31 3996.16 -6.49 160.56 252.47 62.38 2 3 7 3396.2 -10.14 153.79
 100.00 6 11 51 2965.57 -27.10 93.76 260.41 76.89 7 1 17 2365.6 -28.64 85.29
 100.00 1 51 34 3818.38 -3.99 146.13 251.10 60.35 2 55 13 3218.4 -7.91 139.54
 110.00 8 7 36 2603.42 -33.07 67.61 261.77 80.80 8 50 59 2003.4 -33.98 58.49
 110.00 2 12 19 3753.29 1.17 137.99 247.89 55.83 3 14 52 3153.3 -3.32 131.79

DIFFERENTIAL CORRECTIONS

TDE 3.2986 TRA 5.0471 TC3 -1.5441 BAU .6682
 RDE .2612 RRA -.2861 RC3 .1044 FAU .02477
 FDE 2.9562 FRA 4.8017 FC3 -.6640 BSP 22084
 BDE 3.3090 BRA 5.0552 BC3 1.5477 FSP -1974

MID-COURSE EXECUTION ACCURACY

SGT 6790.0 SGR 431.5 SG3 535.3
 RRT -.3907 RRF -.3848 RTF .9900
 SGB 6803.7 R23 -.0036 R13 -.9900
 SG1 6792.1 SG2 397.1 THA 178.57

ORBIT DETERMINATION ACCURACY

ST 3733.6 SR 280.4 SS 1749.0
 CRT .6807 CRS -.6626 CST -.9997
 LSA 4127.2 MSA 209.6 SSA 12.7
 EL1 3738.5 EL2 205.1 ALF 2.94

LAUNCH DATE NOV 23 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 1 1969

HELIOCENTRIC CONIC

DISTANCE 124.429

RL 147.71 LAL .00 LOL 60.77 VL 14.513 GAL 36.40 AZL 88.33 MCA 29.80 SMA 83.66 ECC .85548 INC 1.6729 V1 30.163
 RP 107.65 LAP .83 LOP 90.56 VP 29.653 GAP -57.28 AZP 88.55 TAL 172.48 TAP 202.28 RCA 12.09 APO 155.23 V2 35.202
 RC 97.535 GL .95 GP -.94 ZAL 64.19 ZAP 37.74 ETS 176.69 ZAE 129.22 ETE 184.14 ZAC 45.11 ETC 156.60 CLP 37.73

PLANETOCENTRIC CONIC

C3 421.759 VHL 20.537 DLA -.48 RAL 356.49 RAD 6572.2 VEL 23.304 PTH 3.29 VHP 31.351 DPA -21.70 RAP 311.66 ECC 7.9411
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 2 27 2809.92 -28.22 82.55 262.22 92.45 7 49 17 2209.9 -27.58 73.94
 90.00 18 53 20 5483.86 28.29 253.69 262.74 88.65 20 24 44 4883.9 27.80 245.06
 100.00 8 23 34 2548.25 -29.79 63.23 262.14 92.58 9 6 2 1948.3 -29.11 54.49
 100.00 20 14 54 5220.76 29.86 234.30 262.69 88.53 21 41 55 4620.8 29.34 225.53
 110.00 9 31 18 2336.24 -34.07 46.89 261.90 92.98 10 10 14 1736.2 -33.28 37.74
 110.00 21 23 39 5005.53 34.14 217.81 262.55 88.18 22 47 5 4405.5 33.51 208.63

DIFFERENTIAL CORRECTIONS

TDE -.9863 TRA -2.3162 TC3 -.1059 BAU .5982
 RDE -1.4507 RRA .7733 RC3 -.0057 FAU .01042
 FDE .3854 FRA .7713 FC3 -.0214 BSP 1948
 BDE 1.7542 BRA 2.4418 BC3 .1061 FSP -45

MID-COURSE EXECUTION ACCURACY

SGT 826.2 SGR 459.2 SG3 22.1
 RRT -.0472 RRF .0422 RTF -.6165
 SGB 945.3 R23 -.0002 R13 .6166
 SG1 826.6 SG2 458.5 THA 177.83

ORBIT DETERMINATION ACCURACY

ST 336.8 SR 409.9 SS 339.8
 CRT .7158 CRS .7651 CST .9956
 LSA 588.7 MSA 223.9 SSA 14.1
 EL1 493.2 EL2 195.5 ALF 52.71

LAUNCH DATE NOV 23 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 3 1969

HELIOCENTRIC CONIC

DISTANCE 129.580

RL 147.71 LAL .00 LOL 60.77 VL 15.342 GAL 34.52 AZL 88.14 MCA 33.04 SMA 84.99 ECC .83119 INC 1.8634 V1 30.163
 RP 107.63 LAP 1.02 LOP 93.80 VP 30.078 GAP -54.77 AZP 88.44 TAL 171.54 TAP 204.58 RCA 14.35 APO 155.63 V2 35.210
 RC 95.312 GL 1.19 GP -.96 ZAL 62.76 ZAP 36.20 ETS 176.67 ZAE 128.96 ETE 184.47 ZAC 46.70 ETC 157.28 CLP 36.19

PLANETOCENTRIC CONIC

C3 388.807 VHL 19.718 DLA .31 RAL 357.71 RAD 6572.1 VEL 22.586 PTH 3.26 VHP 30.268 DPA -21.32 RAP 313.44 ECC 7.3988
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 1 26 2826.58 -28.26 83.77 263.25 91.84 7 48 33 2226.6 -27.71 75.14
 90.00 19 4 2 5451.53 28.21 251.33 262.92 87.46 20 34 53 4851.5 27.56 242.72
 100.00 8 22 56 2563.73 -29.83 64.38 263.19 91.98 9 5 39 1963.7 -29.24 55.62
 100.00 20 25 14 5189.61 29.78 231.98 262.84 87.31 21 51 44 4589.6 29.09 223.25
 110.00 9 31 30 2349.09 -34.11 47.89 263.00 92.39 10 10 39 1749.1 -33.40 38.72
 110.00 21 33 9 4977.02 34.06 215.59 262.59 86.87 22 56 6 4377.0 33.25 206.44

DIFFERENTIAL CORRECTIONS

TDE -.9938 TRA -2.3416 TC3 -.1131 BAU .5890
 RDE -1.4094 RRA .7558 RC3 -.0066 FAU .01040
 FDE .4019 FRA .7997 FC3 -.0232 BSP 2120
 BDE 1.7245 BRA 2.4606 BC3 .1133 FSP -50

MID-COURSE EXECUTION ACCURACY

SGT 863.3 SGR 465.4 SG3 23.8
 RRT -.0486 RRF .0436 RTF -.6349
 SGB 980.8 R23 -.0002 R13 .6350
 SG1 863.7 SG2 464.7 THA 177.89

ORBIT DETERMINATION ACCURACY

ST 353.9 SR 414.8 SS 355.7
 CRT .7141 CRS .7661 CST .9954
 LSA 608.9 MSA 230.0 SSA 14.4
 EL1 506.0 EL2 203.1 ALF 51.29

LAUNCH DATE NOV 23 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 5 1969

HELIOCENTRIC CONIC

DISTANCE 134.874

RL 147.71 LAL .00 LOL 60.77 VL 16.126 GAL 32.82 AZL 87.98 MCA 36.28 SMA 86.35 ECC .80642 INC 2.0236 V1 30.163
 RP 107.60 LAP 1.20 LOP 97.03 VP 30.494 GAP -52.40 AZP 88.37 TAL 170.59 TAP 206.87 RCA 16.72 APO 155.99 V2 35.218
 RC 93.090 GL 1.45 GP -.98 ZAL 61.38 ZAP 34.68 ETS 176.64 ZAE 128.75 ETE 184.82 ZAC 48.33 ETC 157.93 CLP 34.67

PLANETOCENTRIC CONIC

C3 358.630 VHL 18.938 DLA 1.09 RAL 358.87 RAD 6572.0 VEL 21.907 PTH 3.23 VHP 29.220 OPA -20.92 RAP 315.24 ECC 6.9021
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 0 18 2842.55 -28.29 84.93 264.20 91.26 7 47 41 2242.6 -27.82 76.30
 90.00 19 14 29 5419.03 28.09 248.96 263.04 86.28 20 44 48 4819.0 27.28 240.38
 100.00 8 22 9 2578.54 -29.86 65.48 264.16 91.40 9 5 8 1978.5 -29.35 56.71
 100.00 20 35 19 5158.27 29.66 229.66 262.92 86.10 22 1 18 4558.3 28.80 220.96
 110.00 9 31 34 2361.29 -34.14 48.84 264.02 91.83 10 10 55 1761.3 -33.51 39.66
 110.00 21 42 24 4948.29 33.93 213.36 262.55 85.56 23 4 53 4348.3 32.94 204.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.0032 TRA-2.3693 TC3 -.1207 BAU .5799
 ROE-1.3678 RRA .7374 RC3 -.0076 FAU .01039
 FDE .4189 FRA .8287 FC3 -.0251 BSP 2257
 BOE 1.6962 BRA 2.4814 BC3 .1210 FSP -54

SGT 902.9 SGR 471.0 SG3 25.6
 RRT -.0497 RRF .0448 RTF -.6529
 SGB 1018.4 R23 -.0003 R13 .6531
 SG1 903.3 SG2 470.2 THA 177.96

ST 372.3 SR 419.2 SS 372.2
 CRT .7127 CRS .7672 CST .9952
 LSA 630.1 MSA 235.9 SSA 14.6
 EL1 519.5 EL2 210.7 ALF 49.74

LAUNCH DATE NOV 23 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 7 1969

HELIOCENTRIC CONIC

DISTANCE 140.303

RL 147.71 LAL .00 LOL 60.77 VL 16.866 GAL 31.26 AZL 87.84 MCA 39.52 SMA 87.75 ECC .78135 INC 2.1608 V1 30.163
 RP 107.58 LAP 1.37 LOP 100.27 VP 30.900 GAP -50.16 AZP 88.33 TAL 169.65 TAP 209.16 RCA 19.19 APO 156.31 V2 35.225
 RC 90.872 GL 1.71 GP -1.01 ZAL 60.05 ZAP 33.19 ETS 176.61 ZAE 128.61 ETE 185.18 ZAC 49.98 ETC 158.54 CLP 33.18

PLANETOCENTRIC CONIC

C3 330.953 VHL 18.192 DLA 1.86 RAL 360.00 RAD 6571.9 VEL 21.266 PTH 3.20 VHP 28.207 OPA -20.49 RAP 317.05 ECC 6.4466
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 59 2 2857.85 -28.31 86.05 265.07 90.69 7 46 40 2257.8 -27.91 77.41
 90.00 19 24 42 5386.30 27.92 246.58 263.08 85.10 20 54 29 4786.3 26.95 238.04
 100.00 8 21 14 2592.68 -29.88 66.53 265.04 90.85 9 4 27 1992.7 -29.44 57.75
 100.00 20 45 11 5126.70 29.49 227.33 262.93 84.88 22 10 38 4526.7 28.47 218.67
 110.00 9 31 29 2372.84 -34.16 49.74 264.95 91.29 10 11 1 1772.8 -33.61 40.54
 110.00 21 51 26 4919.31 33.75 211.11 262.45 84.24 23 13 25 4319.3 32.59 202.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.0129 TRA-2.3977 TC3 -.1286 BAU .5703
 ROE-1.3260 RRA .7181 RC3 -.0088 FAU .01038
 FDE .4362 FRA .8582 FC3 -.0272 BSP 2391
 BOE 1.6686 BRA 2.5029 BC3 .1289 FSP -59

SGT 944.2 SGR 476.1 SG3 27.6
 RRT -.0506 RRF .0459 RTF -.6704
 SGB 1057.4 R23 -.0005 R13 .6705
 SG1 944.6 SG2 475.2 THA 178.04

ST 391.6 SR 423.1 SS 388.9
 CRT .7113 CRS .7682 CST .9950
 LSA 652.0 MSA 241.5 SSA 14.8
 EL1 533.6 EL2 218.2 ALF 48.11

LAUNCH DATE NOV 23 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 9 1969

HELIOCENTRIC CONIC

DISTANCE 145.858

RL 147.71 LAL .00 LOL 60.77 VL 17.565 GAL 29.82 AZL 87.72 MCA 42.76 SMA 89.17 ECC .75615 INC 2.2804 V1 30.163
 RP 107.56 LAP 1.55 LOP 103.51 VP 31.294 GAP -48.03 AZP 88.33 TAL 168.70 TAP 211.46 RCA 21.74 APO 156.59 V2 35.232
 RC 88.659 GL 1.99 GP -1.04 ZAL 58.76 ZAP 31.73 ETS 176.57 ZAE 128.54 ETE 185.56 ZAC 51.66 ETC 159.12 CLP 31.71

PLANETOCENTRIC CONIC

C3 305.534 VHL 17.480 DLA 2.63 RAL 1.07 RAD 6571.7 VEL 20.660 PTH 3.17 VHP 27.225 OPA -20.05 RAP 318.88 ECC 6.0283
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 57 37 2872.48 -28.32 87.12 265.84 90.16 7 45 30 2272.5 -27.99 78.47
 90.00 19 34 42 5353.31 27.71 244.19 263.06 83.92 21 3 55 4753.3 26.58 235.70
 100.00 8 20 11 2606.15 -29.89 67.53 265.84 90.32 9 3 38 2006.2 -29.53 58.74
 100.00 20 54 49 5094.87 29.27 224.99 262.87 83.67 22 19 44 4494.9 28.09 216.39
 110.00 9 31 15 2383.74 -34.18 50.60 265.79 90.79 10 10 59 1783.7 -33.69 41.39
 110.00 22 0 15 4890.05 33.53 208.86 262.28 82.92 23 21 45 4290.0 32.19 199.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.0227 TRA-2.4262 TC3 -.1367 BAU .5600
 ROE-1.2840 RRA .6978 RC3 -.0101 FAU .01039
 FDE .4539 FRA .8882 FC3 -.0294 BSP 2534
 BOE 1.6415 BRA 2.5246 BC3 .1371 FSP -65

SGT 987.2 SGR 480.4 SG3 29.6
 RRT -.0514 RRF .0469 RTF -.6872
 SGB 1097.9 R23 -.0007 R13 .6873
 SG1 987.6 SG2 479.6 THA 178.12

ST 411.9 SR 426.5 SS 406.0
 CRT .7100 CRS .7691 CST .9948
 LSA 674.7 MSA 246.8 SSA 15.0
 EL1 548.3 EL2 225.6 ALF 46.41

LAUNCH DATE NOV 23 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 11 1969

HELIOCENTRIC CONIC

DISTANCE 151.532

RL 147.71 LAL .00 LOL 60.77 VL 18.224 GAL 28.47 AZL 87.61 MCA 46.00 SMA 90.60 ECC .73097 INC 2.3863 V1 30.163
 RP 107.54 LAP 1.72 LOP 106.75 VP 31.676 GAP -46.00 AZP 88.34 TAL 167.76 TAP 213.77 RCA 24.37 APO 156.83 V2 35.238
 RC 86.453 GL 2.28 GP -1.06 ZAL 57.52 ZAP 30.28 ETS 176.51 ZAE 128.52 ETE 185.95 ZAC 53.37 ETC 159.67 CLP 30.27

PLANETOCENTRIC CONIC

C3 282.164 VHL 16.798 DLA 3.39 RAL 2.10 RAD 6571.6 VEL 20.087 PTH 3.14 VHP 26.272 OPA -19.58 RAP 320.73 ECC 5.6437
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 56 4 2886.46 -28.31 88.14 266.53 89.65 7 44 10 2286.5 -28.06 79.49
 90.00 19 44 28 5320.01 27.45 241.78 262.97 82.74 21 13 8 4720.0 26.16 233.35
 100.00 8 18 59 2618.98 -29.89 68.48 266.54 89.82 9 2 38 2019.0 -29.60 59.69
 100.00 21 4 14 5062.73 29.01 222.64 262.74 82.45 22 28 37 4462.7 27.66 214.09
 110.00 9 30 52 2394.01 -34.18 51.40 266.54 90.31 10 10 46 1794.0 -33.76 42.18
 110.00 22 8 50 4860.47 33.26 206.59 262.05 81.60 23 29 51 4260.5 31.74 197.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.0321 TRA-2.4543 TC3 -.1451 BAU .5489
 ROE-1.2420 RRA .6769 RC3 -.0115 FAU .01041
 FDE .4720 FRA .9187 FC3 -.0320 BSP 2687
 BOE 1.6149 BRA 2.5459 BC3 .1455 FSP -70

SGT 1031.8 SGR 484.2 SG3 31.9
 RRT -.0521 RRF .0478 RTF -.7033
 SGB 1139.8 R23 -.0009 R13 .7034
 SG1 1032.2 SG2 483.3 THA 178.21

ST 432.9 SR 429.3 SS 423.5
 CRT .7086 CRS .7700 CST .9945
 LSA 698.2 MSA 251.7 SSA 15.2
 EL1 563.5 EL2 232.7 ALF 44.66

LAUNCH DATE NOV 23 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC

DISTANCE 157.319

RL 147.71 LAL .00 LOL 60.77 VL 18.846 GAL 27.22 AZL 87.52 HCA 49.25 SMA 92.05 ECC .70593 INC 2.4812 V1 30.163
 RP 107.53 LAP 1.88 LOP 109.99 VP 32.043 GAP -44.07 AZP 88.38 TAL 166.83 TAP 216.08 RCA 27.07 APO 157.03 V2 35.243
 RC 84.254 GL 2.58 GP -1.10 ZAL 56.33 ZAP 28.86 ETS 176.44 ZAE 128.57 ETE 186.37 ZAC 55.11 ETC 160.19 CLP 28.84

PLANETOCENTRIC CONIC

C3 260.658 VHL 16.145 DLA 4.14 RAL 3.09 RAD 6571.5 VEL 19.544 PTH 3.11 VHP 25.349 DPA -19.09 RAP 322.58 ECC 5.2898
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 21 2899.81 -28.31 89.12 267.14 89.16 7 42 41 2299.8 -28.12 80.46
 90.00 19 54 3 5286.36 27.13 239.37 262.82 81.57 21 22 9 4686.4 25.69 231.00
 100.00 8 17 38 2631.18 -29.89 69.39 267.16 89.34 9 1 29 2031.2 -29.66 60.59
 100.00 21 13 27 5030.23 28.70 220.27 262.55 81.25 22 37 17 4430.2 27.19 211.79
 110.00 9 30 20 2403.64 -34.18 52.15 267.20 89.87 10 10 24 1803.6 -33.82 42.92
 110.00 22 17 14 4830.53 32.94 204.31 261.75 80.29 23 37 45 4230.5 31.25 195.50

DIFFERENTIAL CORRECTIONS

TOE-1.0414 TRA-2.4819 TC3 -.1536 BAU .5371
 ROE-1.1998 RRA .6553 RC3 -.0130 FAU .01045
 FOE .4905 FRA .9498 FC3 -.0347 BSP 2852
 BOE 1.5887 BRA 2.5669 BC3 .1541 FSP -77

MID-COURSE EXECUTION ACCURACY

SGT 1078.1 SGR 487.3 SG3 34.2
 RRT -.0527 RRF .0486 RTF -.7189
 SGB 1183.1 R23 -.0011 R13 .7190
 SG1 1078.5 SG2 486.4 THA 178.29

ORBIT DETERMINATION ACCURACY

ST 455.0 SR 431.5 SS 441.3
 CRT .7073 CRS .7710 CST .9943
 LSA 722.5 MSA 256.3 SSA 15.4
 EL1 579.5 EL2 239.5 ALF 42.86

LAUNCH DATE NOV 23 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

DISTANCE 163.210

RL 147.71 LAL .00 LOL 60.77 VL 19.433 GAL 26.03 AZL 87.43 HCA 52.49 SMA 93.51 ECC .68113 INC 2.5673 V1 30.163
 RP 107.51 LAP 2.04 LOP 113.23 VP 32.397 GAP -42.22 AZP 88.44 TAL 165.91 TAP 218.40 RCA 29.82 APO 157.20 V2 35.247
 RC 82.065 GL 2.89 GP -1.13 ZAL 55.18 ZAP 27.45 ETS 176.35 ZAE 128.69 ETE 186.80 ZAC 56.86 ETC 160.68 CLP 27.43

PLANETOCENTRIC CONIC

C3 240.853 VHL 15.519 DLA 4.89 RAL 4.03 RAD 6571.4 VEL 19.031 PTH 3.08 VHP 24.452 DPA -18.58 RAP 324.44 ECC 4.9638
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 52 28 2912.55 -28.29 90.05 267.65 88.69 7 41 1 2312.6 -28.17 81.39
 90.00 20 3 25 5252.32 26.77 236.95 262.60 80.41 21 30 58 4652.3 25.17 228.64
 100.00 8 16 7 2642.76 -29.87 70.25 267.69 88.89 9 0 10 2042.8 -29.71 61.45
 100.00 21 22 28 4997.34 28.33 217.89 262.30 80.05 22 45 45 4397.3 26.67 209.49
 110.00 9 29 38 2412.66 -34.18 52.85 267.76 89.45 10 9 51 1812.7 -33.88 43.62
 110.00 22 25 26 4800.21 32.57 202.02 261.39 78.99 23 45 26 4200.2 30.71 193.30

DIFFERENTIAL CORRECTIONS

TOE-1.0503 TRA-2.5087 TC3 -.1623 BAU .5246
 ROE-1.1576 RRA .6331 RC3 -.0148 FAU .01051
 FOE .5096 FRA .9816 FC3 -.0378 BSP 3027
 BOE 1.5631 BRA 2.5874 BC3 .1629 FSP -84

MID-COURSE EXECUTION ACCURACY

SGT 1126.1 SGR 489.7 SG3 36.8
 RRT -.0531 RRF .0493 RTF -.7338
 SGB 1228.0 R23 -.0013 R13 .7339
 SG1 1126.5 SG2 488.8 THA 178.37

ORBIT DETERMINATION ACCURACY

ST 477.9 SR 433.1 SS 459.5
 CRT .7059 CRS .7719 CST .9941
 LSA 747.7 MSA 260.5 SSA 15.6
 EL1 596.3 EL2 245.9 ALF 41.03

LAUNCH DATE NOV 23 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

DISTANCE 169.199

RL 147.71 LAL .00 LOL 60.77 VL 19.987 GAL 24.92 AZL 87.35 HCA 55.74 SMA 94.97 ECC .65667 INC 2.6463 V1 30.163
 RP 107.50 LAP 2.19 LOP 116.48 VP 32.736 GAP -40.46 AZP 88.51 TAL 165.01 TAP 220.74 RCA 32.60 APO 157.33 V2 35.251
 RC 79.887 GL 3.22 GP -1.17 ZAL 54.08 ZAP 26.06 ETS 176.23 ZAE 128.88 ETE 187.26 ZAC 58.64 ETC 161.15 CLP 26.04

PLANETOCENTRIC CONIC

C3 222.602 VHL 14.920 DLA 5.63 RAL 4.92 RAD 6571.3 VEL 18.545 PTH 3.05 VHP 23.582 DPA -18.05 RAP 326.32 ECC 4.6635
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 50 25 2924.71 -28.27 90.94 268.08 88.24 7 39 10 2324.7 -28.21 82.28
 90.00 20 12 37 5217.83 26.36 234.51 262.32 79.25 21 39 35 4617.8 24.61 226.27
 100.00 8 14 26 2653.75 -29.86 71.07 268.13 88.46 8 58 40 2053.8 -29.75 62.26
 100.00 21 31 18 4964.02 27.92 215.50 261.98 78.85 22 54 2 4364.0 26.10 207.18
 110.00 9 28 47 2421.08 -34.17 53.51 268.24 89.06 10 9 8 1821.1 -33.92 44.28
 110.00 22 33 26 4769.46 32.14 199.73 260.97 77.69 23 52 56 4169.5 30.11 191.10

DIFFERENTIAL CORRECTIONS

TOE-1.0592 TRA-2.5347 TC3 -.1711 BAU .5116
 ROE-1.1155 RRA .6104 RC3 -.0166 FAU .01059
 FOE .5292 FRA 1.0141 FC3 -.0412 BSP 3209
 BOE 1.5382 BRA 2.6072 BC3 .1719 FSP -91

MID-COURSE EXECUTION ACCURACY

SGT 1175.9 SGR 491.4 SG3 39.6
 RRT -.0533 RRF .0499 RTF -.7482
 SGB 1274.5 R23 -.0016 R13 .7482
 SG1 1176.3 SG2 490.5 THA 178.45

ORBIT DETERMINATION ACCURACY

ST 501.8 SR 434.2 SS 478.3
 CRT .7047 CRS .7728 CST .9938
 LSA 773.9 MSA 264.2 SSA 15.7
 EL1 613.9 EL2 251.8 ALF 39.18

LAUNCH DATE NOV 23 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 175.281

RL 147.71 LAL .00 LOL 60.77 VL 20.509 GAL 23.86 AZL 87.28 HCA 58.98 SMA 96.43 ECC .63263 INC 2.7194 V1 30.163
 RP 107.49 LAP 2.33 LOP 119.73 VP 33.060 GAP -38.78 AZP 88.60 TAL 164.11 TAP 223.09 RCA 35.42 APO 157.43 V2 35.254
 RC 77.721 GL 3.56 GP -1.21 ZAL 53.03 ZAP 24.69 ETS 176.09 ZAE 129.13 ETE 187.74 ZAC 60.44 ETC 161.60 CLP 24.66

PLANETOCENTRIC CONIC

C3 205.779 VHL 14.345 DLA 6.37 RAL 5.77 RAD 6571.2 VEL 18.086 PTH 3.01 VHP 22.737 DPA -17.50 RAP 328.20 ECC 4.3866
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 48 11 2936.32 -28.24 91.79 268.41 87.82 7 37 8 2336.3 -28.24 83.12
 90.00 20 21 39 5182.86 25.89 232.05 261.98 78.11 21 48 2 4582.9 23.99 223.90
 100.00 8 12 34 2664.19 -29.83 71.84 268.48 88.05 8 56 58 2064.2 -29.79 63.04
 100.00 21 39 57 4930.23 27.45 213.10 261.61 77.67 23 2 8 4330.2 25.47 204.86
 110.00 9 27 44 2428.91 -34.16 54.12 268.62 88.70 10 8 13 1828.9 -33.96 44.88
 110.00 22 41 16 4738.26 31.67 197.42 260.49 76.40 24 0 15 4138.3 29.47 188.90

DIFFERENTIAL CORRECTIONS

TOE-1.0707 TRA-2.5624 TC3 -.1806 BAU .4994
 ROE-1.0733 RRA .5875 RC3 -.0187 FAU .01066
 FOE .5499 FRA 1.0478 FC3 -.0449 BSP 3334
 BOE 1.5161 BRA 2.6289 BC3 .1815 FSP -99

MID-COURSE EXECUTION ACCURACY

SGT 1229.6 SGR 492.3 SG3 42.5
 RRT -.0529 RRF .0502 RTF -.7618
 SGB 1324.5 R23 -.0022 R13 .7619
 SG1 1229.9 SG2 491.5 THA 178.56

ORBIT DETERMINATION ACCURACY

ST 527.8 SR 434.5 SS 497.8
 CRT .7041 CRS .7738 CST .9936
 LSA 802.2 MSA 267.3 SSA 15.9
 EL1 633.5 EL2 257.1 ALF 37.23

LAUNCH DATE NOV 23 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 181.448

RL 147.71 LAL .00 LOL 60.77 VL 21.001 GAL 22.86 AZL 87.21 MCA 62.23 SMA 97.88 ECC .60908 INC 2.7876 V1 30.163
 RP 107.48 LAP 2.47 LOP 122.97 VP 33.370 GAP -37.16 AZP 88.70 TAL 163.23 TAP 225.46 RCA 38.26 APO 157.49 V2 35.256
 RC 75.571 GL 3.91 GP -1.25 ZAL 52.02 ZAP 23.33 ETS 175.92 ZAE 129.47 ETE 188.25 ZAC 62.25 ETC 162.02 CLP 23.30

PLANETOCENTRIC CONIC

C3 190.264 VML 13.794 CLA 7.11 RAL 6.58 RAD 6571.0 VEL 17.652 PTH 2.98 VHP 21.915 DPA -16.94 RAP 330.08 ECC 4.1313
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 46 2947.41 -28.21 92.60 268.66 87.41 7 34 53 2347.4 -28.27 83.93
 90.00 20 30 31 5147.37 25.37 229.58 261.59 76.98 21 56 18 4547.4 23.32 221.51
 100.00 8 10 30 2674.09 -29.81 72.58 268.74 87.67 8 55 4 2074.1 -29.81 63.77
 100.00 21 48 27 4895.93 26.93 210.69 261.18 76.50 23 10 3 4295.9 24.80 202.53
 110.00 9 26 31 2436.20 -34.15 54.69 268.92 88.36 10 7 7 1836.2 -34.00 45.45
 110.00 22 48 56 4706.58 31.14 195.10 259.96 75.12 24 7 22 4106.6 28.78 186.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0825 TRA-2.5894 TC3 -.1903 BAU .4871 SGT 1285.6 SGR 492.6 SG3 45.7 ST 555.1 SR 434.2 SS 518.0
 RDE-1.0314 RRA .5642 RC3 -.0209 FAU .01076 RRT -.0521 RRF .0504 RTF -.7748 CRT .7037 CRS .7749 CST .9935
 FDE .5714 FRA 1.0825 FC3 -.0489 BSP 3453 SGB 1376.7 R23 -.0030 R13 .7749 LSA 831.8 MSA 270.0 SSA 16.0
 BOE 1.4952 BRA 2.6501 BC3 .1915 FSP -107 SG1 1285.9 SG2 491.8 THA 178.66 EL1 654.4 EL2 261.7 ALF 35.29

LAUNCH DATE NOV 23 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 187.699

RL 147.71 LAL .00 LOL 60.77 VL 21.465 GAL 21.90 AZL 87.15 MCA 65.48 SMA 99.32 ECC .58607 INC 2.8520 V1 30.163
 RP 107.48 LAP 2.59 LOP 126.22 VP 33.666 GAP -35.61 AZP 88.82 TAL 162.37 TAP 227.85 RCA 41.11 APO 157.53 V2 35.258
 RC 73.439 GL 4.28 GP -1.30 ZAL 51.06 ZAP 21.99 ETS 175.71 ZAE 129.88 ETE 188.79 ZAC 64.09 ETC 162.42 CLP 21.95

PLANETOCENTRIC CONIC

C3 175.974 VML 13.266 CLA 7.84 RAL 7.35 RAD 6570.9 VEL 17.242 PTH 2.94 VHP 21.118 DPA -16.36 RAP 331.96 ECC 3.8961
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 43 8 2958.07 -28.17 93.38 268.83 87.03 7 32 26 2358.1 -28.29 84.71
 90.00 20 39 15 5111.32 24.79 227.10 261.15 75.86 22 4 26 4511.3 22.60 219.11
 100.00 8 8 15 2683.53 -29.78 73.28 268.92 87.30 8 52 59 2083.5 -29.84 64.47
 100.00 21 56 49 4861.09 26.35 208.26 260.70 75.35 23 17 50 4261.1 24.08 200.19
 110.00 9 25 7 2442.99 -34.13 55.22 269.13 88.05 10 5 50 1843.0 -34.03 45.98
 110.00 22 56 26 4674.39 30.55 192.78 259.39 73.86 24 14 20 4074.4 28.04 184.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1388 TRA-2.6597 TC3 -.2104 BAU .4979 SGT 1377.7 SGR 492.0 SG3 49.4 ST 602.7 SR 433.1 SS 543.5
 RDE -.9893 RRA .5411 RC3 -.0233 FAU .01060 RRT -.0427 RRF .0479 RTF -.7858 CRT .7109 CRS .7772 CST .9942
 FDE .5998 FRA 1.1241 FC3 -.0521 BSP 2510 SGB 1462.9 R23 -.0095 R13 .7858 LSA 879.0 MSA 270.8 SSA 16.5
 BOE 1.5085 BRA 2.7142 BC3 .2116 FSP -103 SG1 1377.9 SG2 491.5 THA 179.00 EL1 693.3 EL2 264.8 ALF 32.34

LAUNCH DATE NOV 23 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 194.012

RL 147.71 LAL .00 LOL 60.77 VL 21.902 GAL 20.99 AZL 87.09 MCA 68.72 SMA 100.75 ECC .56360 INC 2.9130 V1 30.163
 RP 107.48 LAP 2.71 LOP 129.47 VP 33.947 GAP -34.12 AZP 88.94 TAL 161.53 TAP 230.26 RCA 43.97 APO 157.54 V2 35.259
 RC 71.328 GL 4.67 GP -1.36 ZAL 50.15 ZAP 20.65 ETS 175.44 ZAE 130.37 ETE 189.36 ZAC 65.93 ETC 162.80 CLP 20.61

PLANETOCENTRIC CONIC

C3 162.739 VML 12.757 CLA 8.56 RAL 8.06 RAD 6570.8 VEL 16.854 PTH 2.91 VHP 20.341 DPA -15.76 RAP 333.85 ECC 3.6783
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 40 17 2968.21 -28.14 94.12 268.89 86.66 7 29 45 2368.2 -28.30 85.46
 90.00 20 47 48 5074.65 24.16 224.60 260.64 74.76 22 12 23 4474.7 21.83 216.70
 100.00 8 5 47 2692.44 -29.75 73.94 268.99 86.95 8 50 39 2092.4 -29.86 65.13
 100.00 22 4 59 4825.65 25.72 205.82 260.16 74.21 23 25 25 4225.7 23.30 197.85
 110.00 9 23 30 2449.21 -34.12 55.71 269.23 87.76 10 4 19 1849.2 -34.05 46.46
 110.00 23 3 45 4641.65 29.91 190.44 258.75 72.62 24 21 7 4041.6 27.24 182.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0677 TRA-2.6006 TC3 -.2009 BAU .4408 SGT 1374.0 SGR 490.8 SG3 52.7 ST 596.5 SR 431.7 SS 556.2
 RDE -.9483 RRA .5168 RC3 -.0261 FAU .01124 RRT -.0577 RRF .0523 RTF -.8005 CRT .6964 CRS .7763 CST .9922
 FDE .6122 FRA 1.1499 FC3 -.0598 BSP 4623 SGB 1459.1 R23 .0006 R13 .8005 LSA 880.8 MSA 274.7 SSA 16.1
 BOE 1.4280 BRA 2.6514 BC3 .2026 FSP -136 SG1 1374.3 SG2 489.9 THA 178.65 EL1 685.1 EL2 269.7 ALF 32.36

LAUNCH DATE NOV 23 1968

FLIGHT TIME 96.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 200.401

RL 147.71 LAL .00 LOL 60.77 VL 22.314 GAL 20.11 AZL 87.03 MCA 71.97 SMA 102.16 ECC .54178 INC 2.9715 V1 30.163
 RP 107.48 LAP 2.83 LOP 132.72 VP 34.214 GAP -32.68 AZP 89.08 TAL 160.71 TAP 232.68 RCA 46.81 APO 157.52 V2 35.259
 RC 69.241 GL 5.08 GP -1.41 ZAL 49.28 ZAP 19.33 ETS 175.12 ZAE 130.95 ETE 189.96 ZAC 67.79 ETC 163.16 CLP 19.28

PLANETOCENTRIC CONIC

C3 150.567 VML 12.271 CLA 9.29 RAL 8.74 RAD 6570.6 VEL 16.489 PTH 2.87 VHP 19.587 DPA -15.15 RAP 335.74 ECC 3.4780
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 37 12 2978.05 -28.09 94.83 268.88 86.30 7 26 50 2378.0 -28.31 86.18
 90.00 20 56 16 5037.36 23.47 222.09 260.09 73.68 22 20 14 4437.4 21.01 214.28
 100.00 8 3 5 2701.02 -29.72 74.57 268.99 86.62 8 48 6 2101.0 -29.87 65.77
 100.00 22 13 4 4789.62 25.03 203.36 259.58 73.10 23 32 53 4189.6 22.47 195.49
 110.00 9 21 41 2455.05 -34.10 56.16 269.26 87.49 10 2 36 1855.0 -34.07 46.92
 110.00 23 10 57 4608.36 29.21 188.10 258.08 71.39 24 27 45 4008.4 26.39 180.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0860 TRA-2.6296 TC3 -.2120 BAU .4308 SGT 1440.8 SGR 488.8 SG3 56.7 ST 629.9 SR 429.3 SS 579.2
 RDE -.9070 RRA .4933 RC3 -.0289 FAU .01137 RRT -.0549 RRF .0517 RTF -.8115 CRT .6978 CRS .7777 CST .9922
 FDE .6376 FRA 1.1888 FC3 -.0653 BSP 4596 SGB 1521.5 R23 -.0014 R13 .8115 LSA 916.7 MSA 275.5 SSA 16.3
 BOE 1.4150 BRA 2.6755 BC3 .2140 FSP -144 SG1 1441.1 SG2 487.9 THA 178.79 EL1 712.0 EL2 272.0 ALF 30.31

LAUNCH DATE NOV 23 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 206.851

RL 147.71 LAL .00 LOL 60.77 VL 22.702 GAL 19.28 AZL 86.97 HCA 75.22 SMA 103.56 ECC .52060 INC 3.0278 V1 30.163
 RP 107.48 LAP 2.93 LOP 135.97 VP 34.468 GAP -31.31 AZP 89.23 TAL 159.91 TAP 235.13 RCA 49.65 APO 157.47 V2 35.258
 RC 67.184 GL 5.50 GP -1.48 ZAL 48.46 ZAP 18.02 ETS 174.72 ZAE 131.62 ETE 190.61 ZAC 69.66 ETC 163.50 CLP 17.96

PLANETOCENTRIC CONIC

C3 139.338 VHL 11.804 DLA 10.02 RAL 9.37 RAD 6570.5 VEL 16.145 PTH 2.84 VHP 18.854 DPA -14.53 RAP 337.63 ECC 3.2932
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 33 52 2987.59 -28.05 95.53 268.78 85.95 7 23 39 2387.6 -28.32 86.87
 90.00 21 4 37 4999.39 22.72 219.56 259.49 72.63 22 27 57 4399.4 20.13 211.84
 100.00 8 0 9 2709.26 -29.68 75.18 268.90 86.30 8 45 19 2109.3 -29.88 66.38
 100.00 22 21 1 4752.95 24.28 200.89 258.95 72.00 23 40 14 4152.9 21.59 193.13
 110.00 9 19 39 2460.49 -34.09 56.59 269.19 87.24 10 0 40 1860.5 -34.09 47.34
 110.00 23 18 0 4574.49 28.45 185.76 257.36 70.20 24 34 15 3974.5 25.48 177.84

DIFFERENTIAL CORRECTIONS

TDE-1.0963 TRA-2.6485 TC3 -.2211 BAU .4162
 RDE -.8661 RRA .4699 RC3 -.0320 FAU .01156
 FDE .6632 FRA 1.2280 FC3 -.0718 BSP 4769
 BOE 1.3971 BRA 2.6899 BC3 .2234 FSP -156

MID-COURSE EXECUTION ACCURACY

SGT 1503.3 SGR 485.9 SG3 61.0
 RRT -.0536 RRF .0515 RTF -.8222
 SGB 1579.9 R23 -.0022 R13 .8223
 SG1 1503.6 SG2 485.1 THA 178.89

ORBIT DETERMINATION ACCURACY

ST 660.9 SR 426.1 SS 602.1
 CRT .6979 CRS .7791 CST .9920
 LSA 951.1 MSA 275.8 SSA 16.4
 EL1 737.2 EL2 273.6 ALF 28.50

LAUNCH DATE NOV 23 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 213.358

RL 147.71 LAL .00 LOL 60.77 VL 23.067 GAL 18.49 AZL 86.92 HCA 78.47 SMA 104.93 ECC .50010 INC 3.0824 V1 30.163
 RP 107.48 LAP 3.02 LOP 139.22 VP 34.708 GAP -29.98 AZP 89.38 TAL 159.14 TAP 237.60 RCA 52.45 APO 157.40 V2 35.257
 RC 65.159 GL 5.95 GP -1.55 ZAL 47.69 ZAP 16.72 ETS 174.22 ZAE 132.38 ETE 191.31 ZAC 71.54 ETC 163.83 CLP 16.65

PLANETOCENTRIC CONIC

C3 128.984 VHL 11.357 DLA 10.75 RAL 9.95 RAD 6570.4 VEL 15.821 PTH 2.80 VHP 18.142 DPA -13.89 RAP 339.51 ECC 3.1228
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 30 16 2996.90 -28.00 96.21 268.59 85.62 7 20 13 2396.9 -28.32 87.55
 90.00 21 12 53 4960.72 21.91 217.01 258.86 71.60 22 35 34 4360.7 19.19 209.39
 100.00 7 56 58 2717.24 -29.65 75.77 268.73 85.99 8 42 16 2117.2 -29.89 66.98
 100.00 22 28 51 4715.61 23.47 198.41 258.28 70.94 23 47 27 4115.6 20.65 190.75
 110.00 9 17 24 2465.59 -34.07 56.98 269.05 87.01 9 58 29 1865.6 -34.11 47.74
 110.00 23 24 56 4540.02 27.63 183.41 256.60 69.02 24 40 36 3940.0 24.53 175.62

DIFFERENTIAL CORRECTIONS

TDE-1.1080 TRA-2.6670 TC3 -.2305 BAU .4021
 RDE -.8257 RRA .4466 RC3 -.0353 FAU .01178
 FDE .6905 FRA 1.2689 FC3 -.0790 BSP 4912
 BOE 1.3818 BRA 2.7042 BC3 .2332 FSP -169

MID-COURSE EXECUTION ACCURACY

SGT 1569.1 SGR 482.2 SG3 65.7
 RRT -.0518 RRF .0510 RTF -.8324
 SGB 1641.5 R23 -.0034 R13 .8324
 SG1 1569.3 SG2 481.5 THA 178.99

ORBIT DETERMINATION ACCURACY

ST 693.9 SR 422.2 SS 626.2
 CRT .6984 CRS .7805 CST .9919
 LSA 987.8 MSA 275.5 SSA 16.5
 EL1 764.5 EL2 274.2 ALF 26.73

LAUNCH DATE NOV 23 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 219.917

RL 147.71 LAL .00 LOL 60.77 VL 23.411 GAL 17.72 AZL 86.86 HCA 81.71 SMA 106.27 ECC .48029 INC 3.1358 V1 30.163
 RP 107.49 LAP 3.10 LOP 142.47 VP 34.935 GAP -28.70 AZP 89.55 TAL 158.39 TAP 240.10 RCA 55.23 APO 157.31 V2 35.254
 RC 63.173 GL 6.41 GP -1.62 ZAL 46.96 ZAP 15.42 ETS 173.60 ZAE 133.24 ETE 192.05 ZAC 73.43 ETC 164.13 CLP 15.34

PLANETOCENTRIC CONIC

C3 119.439 VHL 10.929 DLA 11.48 RAL 10.49 RAD 6570.2 VEL 15.517 PTH 2.77 VHP 17.450 DPA -13.25 RAP 341.40 ECC 2.9657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 23 3006.08 -27.95 96.87 268.32 85.29 7 16 29 2406.1 -28.31 88.23
 90.00 21 21 4 4921.31 21.04 214.45 258.18 70.60 22 43 5 4321.3 18.20 206.92
 100.00 7 53 31 2725.04 -29.61 76.35 268.47 85.69 8 38 56 2125.0 -29.89 67.56
 100.00 22 36 37 4677.58 22.60 195.92 257.58 69.90 23 54 34 4077.6 19.66 188.36
 110.00 9 14 53 2470.43 -34.05 57.36 268.81 86.79 9 56 4 1870.4 -34.12 48.12
 110.00 23 31 44 4504.96 26.75 181.06 255.81 67.88 24 46 49 3905.0 23.52 173.40

DIFFERENTIAL CORRECTIONS

TDE-1.1189 TRA-2.6824 TC3 -.2394 BAU .3872
 RDE -.7857 RRA .4235 RC3 -.0389 FAU .01202
 FDE .7194 FRA 1.3113 FC3 -.0871 BSP 5078
 BOE 1.3672 BRA 2.7157 BC3 .2425 FSP -182

MID-COURSE EXECUTION ACCURACY

SGT 1636.2 SGR 477.7 SG3 70.8
 RRT -.0500 RRF .0505 RTF -.8420
 SGB 1704.5 R23 -.0046 R13 .8421
 SG1 1636.4 SG2 477.1 THA 179.09

ORBIT DETERMINATION ACCURACY

ST 727.8 SR 417.5 SS 651.3
 CRT .6991 CRS .7821 CST .9917
 LSA 1025.9 MSA 274.5 SSA 16.6
 EL1 793.0 EL2 274.0 ALF 25.04

LAUNCH DATE NOV 23 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 226.521

RL 147.71 LAL .00 LOL 60.77 VL 23.735 GAL 17.00 AZL 86.81 HCA 84.96 SMA 107.58 ECC .46117 INC 3.1884 V1 30.163
 RP 107.50 LAP 3.18 LOP 145.72 VP 35.150 GAP -27.46 AZP 89.72 TAL 157.66 TAP 242.62 RCA 57.97 APO 157.20 V2 35.251
 RC 61.231 GL 6.89 GP -1.71 ZAL 46.29 ZAP 14.13 ETS 172.81 ZAE 134.20 ETE 192.86 ZAC 75.32 ETC 164.42 CLP 14.03

PLANETOCENTRIC CONIC

C3 110.643 VHL 10.519 DLA 12.21 RAL 10.98 RAD 6570.1 VEL 15.231 PTH 2.73 VHP 16.778 DPA -12.61 RAP 343.27 ECC 2.8209
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 22 11 3015.22 -27.90 97.54 267.97 84.96 7 12 27 2415.2 -28.31 88.89
 90.00 21 29 11 4881.13 20.11 211.87 257.47 69.63 22 50 32 4281.1 17.16 204.44
 100.00 7 49 47 2732.73 -29.57 76.92 268.13 85.39 8 35 19 2132.7 -29.89 68.13
 100.00 22 44 17 4638.84 21.67 193.42 256.83 68.89 24 1 36 4038.8 18.61 185.96
 110.00 9 12 7 2475.07 -34.03 57.72 268.50 86.57 9 53 23 1875.1 -34.13 48.48
 110.00 23 38 26 4469.28 25.82 178.71 254.99 66.78 24 52 55 3869.3 22.45 171.17

DIFFERENTIAL CORRECTIONS

TDE-1.1255 TRA-2.6912 TC3 -.2464 BAU .3699
 RDE -.7462 RRA .4009 RC3 -.0427 FAU .01234
 FDE .7495 FRA 1.3549 FC3 -.0965 BSP 5351
 BOE 1.3504 BRA 2.7209 BC3 .2501 FSP -199

MID-COURSE EXECUTION ACCURACY

SGT 1701.2 SGR 472.4 SG3 76.2
 RRT -.0490 RRF .0504 RTF -.8514
 SGB 1765.6 R23 -.0052 R13 .8514
 SG1 1701.4 SG2 471.8 THA 179.16

ORBIT DETERMINATION ACCURACY

ST 760.6 SR 412.0 SS 676.9
 CRT .6991 CRS .7836 CST .9914
 LSA 1063.7 MSA 273.1 SSA 16.7
 EL1 820.8 EL2 272.9 ALF 23.49

LAUNCH DATE NOV 23 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 233.168

RL 147.71 LAL .00 LOL .60.77 VL 24.039 GAL 16.30 AZL 86.76 MCA 88.21 SMA 108.87 ECC .44277 INC 3.2403 V1 30.163
 RP 107.51 LAP 3.24 LOP 148.97 VP 35.352 GAP -26.27 AZP 89.90 TAL 136.97 TAP 245.17 RCA 60.66 APO 157.07 V2 35.248
 RC 59.338 GL 7.40 GP -1.80 ZAL 45.67 ZAP 12.85 ETS 171.81 ZAE 135.27 ETE 193.74 ZAC 77.22 ETC 164.70 CLP 12.73

PLANETOCENTRIC CONIC

C3 102.542 VHL 10.126 DLA 12.95 RAL 11.43 RAD 6570.0 VEL 14.963 PTH 2.70 VHP 16.125 DPA -11.96 RAP 345.15 ECC 2.6876
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 17 40 3024.42 -27.84 98.20 267.55 84.63 7 8 5 2424.4 -28.30 89.57
 90.00 21 37 16 4840.15 19.12 209.27 256.73 68.70 22 57 56 4240.2 16.05 201.93
 100.00 7 45 44 2740.43 -29.52 77.49 267.72 85.10 8 31 24 2140.4 -29.99 68.70
 100.00 22 51 54 4599.37 20.68 190.90 256.06 67.93 24 8 33 3999.4 17.51 183.55
 110.00 9 9 5 2479.59 -34.01 58.07 268.11 86.37 9 50 25 1879.6 -34.14 48.83
 110.00 23 45 1 4432.98 24.82 176.36 254.14 55.71 24 58 54 3833.0 21.33 168.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1362 TRA-2.7016 TC3 -.2543 BAU .3545 SGT 1771.7 SGR 466.3 SG3 82.2 ST 796.8 SR 405.6 SS 704.3
 RDE -.7073 RRA .3787 RC3 -.0467 FAU .01265 RRT -.0470 RRF .0500 RTF -.8601 CRT .7002 CRS .7854 CST .9913
 FDE .7823 FRA 1.4013 FC3 -.1068 BSP 5536 SGB 1832.0 R23 -.0066 R13 .8601 LSA 1105.4 MSA 270.8 SSA 16.8
 BOE 1.3384 BRA 2.7280 BC3 .2586 FSP -215 SG1 1771.8 SG2 465.7 THA 179.24 EL1 852.1 EL2 270.8 ALF 21.94

LAUNCH DATE NOV 23 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 239.850

RL 147.71 LAL .00 LOL 60.77 VL 24.325 GAL 15.63 AZL 86.71 MCA 91.45 SMA 110.12 ECC .42507 INC 3.2921 V1 30.163
 RP 107.52 LAP 3.29 LOP 132.22 VP 35.543 GAP -25.12 AZP 90.08 TAL 136.30 TAP 247.75 RCA 63.31 APO 156.92 V2 35.243
 RC 57.501 GL 7.93 GP -1.90 ZAL 45.09 ZAP 11.58 ETS 170.51 ZAE 136.45 ETE 194.71 ZAC 79.12 ETC 164.96 CLP 11.42

PLANETOCENTRIC CONIC

C3 95.083 VHL 9.751 DLA 13.69 RAL 11.83 RAD 6569.9 VEL 14.711 PTH 2.66 VHP 15.490 DPA -11.31 RAP 347.02 ECC 2.5648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 48 3033.81 -27.78 98.88 267.04 84.29 7 3 22 2433.8 -28.28 90.25
 90.00 21 45 19 4798.34 18.06 206.65 255.96 67.81 23 5 18 4198.3 14.90 199.41
 100.00 7 41 21 2748.25 -29.48 78.06 267.23 84.80 8 27 9 2148.2 -29.99 69.28
 100.00 22 59 27 4559.14 19.63 188.38 255.26 67.00 24 15 27 3959.1 16.35 181.12
 110.00 9 5 46 2484.10 -33.99 58.42 267.65 96.16 9 47 10 1884.1 -34.15 49.18
 110.00 23 51 32 4396.05 23.77 174.01 253.27 84.68 25 4 48 3796.1 20.16 166.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1443 TRA-2.7065 TC3 -.2605 BAU .3375 SGT 1841.1 SGR 459.3 SG3 88.6 ST 832.7 SR 398.4 SS 732.6
 RDE -.6689 RRA .3570 RC3 -.0510 FAU .01303 RRT -.0457 RRF .0500 RTF -.8684 CRT .7009 CRS .7871 CST .9911
 FDE .8170 FRA 1.4493 FC3 -.1186 BSP 5794 SGB 1897.5 R23 -.0077 R13 .8684 LSA 1147.5 MSA 268.0 SSA 16.8
 BOE 1.3255 BRA 2.7300 BC3 .2655 FSP -234 SG1 1841.2 SG2 458.8 THA 179.30 EL1 883.4 EL2 267.8 ALF 20.51

LAUNCH DATE NOV 23 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 246.365

RL 147.71 LAL .00 LOL 60.77 VL 24.594 GAL 14.99 AZL 86.56 MCA 94.69 SMA 111.33 ECC .40809 INC 3.3440 V1 30.163
 RP 107.54 LAP 3.33 LOP 135.47 VP 35.722 GAP -24.01 AZP 90.27 TAL 135.66 TAP 250.36 RCA 65.90 APO 156.76 V2 35.238
 RC 55.726 GL 8.48 GP -2.01 ZAL 44.57 ZAP 10.31 ETS 168.81 ZAE 137.75 ETE 195.77 ZAC 81.02 ETC 165.21 CLP 10.12

PLANETOCENTRIC CONIC

C3 88.222 VHL 9.393 DLA 14.44 RAL 12.18 RAD 6569.7 VEL 14.476 PTH 2.63 VHP 14.874 DPA -10.66 RAP 348.88 ECC 2.4519
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 33 3043.53 -27.71 99.59 266.47 83.95 6 58 16 2443.5 -28.26 90.96
 90.00 21 33 23 4755.66 16.94 204.02 255.16 68.97 23 12 38 4155.7 13.68 196.86
 100.00 7 36 37 2756.29 -29.43 78.66 266.67 84.49 9 22 33 2156.3 -29.98 69.88
 100.00 23 7 0 4518.13 18.32 195.84 254.44 66.11 24 22 18 3918.1 15.14 178.68
 110.00 9 2 8 2488.68 -33.97 58.78 267.12 85.95 9 43 37 1888.7 -34.16 49.54
 110.00 0 1 54 4358.50 22.65 171.66 252.38 83.69 1 14 32 3758.5 18.93 164.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1527 TRA-2.7091 TC3 -.2658 BAU .3203 SGT 1912.0 SGR 451.6 SG3 95.7 ST 869.9 SR 390.2 SS 762.5
 RDE -.6312 RRA .3360 RC3 -.0555 FAU .01344 RRT -.0445 RRF .0502 RTF -.8763 CRT .7019 CRS .7889 CST .9910
 FDE .8544 FRA 1.4999 FC3 -.1319 BSP 6049 SGB 1964.6 R23 -.0090 R13 .8763 LSA 1191.7 MSA 264.6 SSA 16.9
 BOE 1.3142 BRA 2.7298 BC3 .2716 FSP -255 SG1 1912.2 SG2 451.1 THA 179.36 EL1 916.2 EL2 263.9 ALF 19.13

LAUNCH DATE NOV 23 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 253.308

RL 147.71 LAL .00 LOL 60.77 VL 24.846 GAL 14.37 AZL 86.60 MCA 97.94 SMA 112.51 ECC .39182 INC 3.3964 V1 30.163
 RP 107.56 LAP 3.36 LOP 138.72 VP 35.891 GAP -22.94 AZP 90.47 TAL 135.06 TAP 253.00 RCA 68.42 APO 156.59 V2 35.232
 RC 54.021 GL 9.06 GP -2.14 ZAL 44.10 ZAP 9.06 ETS 166.52 ZAE 139.16 ETE 196.95 ZAC 82.92 ETC 165.45 CLP 8.80

PLANETOCENTRIC CONIC

C3 81.913 VHL 9.051 DLA 15.20 RAL 12.48 RAD 6569.6 VEL 14.257 PTH 2.60 VHP 14.275 DPA -10.01 RAP 350.73 ECC 2.3481
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 53 3053.72 -27.64 100.32 265.83 83.58 6 52 46 2453.7 -28.24 91.71
 90.00 22 1 28 4712.07 15.76 201.37 254.35 66.17 23 20 0 4112.1 12.41 194.29
 100.00 7 31 30 2764.71 -29.37 79.28 266.04 84.17 8 17 35 2164.7 -29.87 70.51
 100.00 23 14 32 4476.32 17.35 183.29 253.61 65.27 24 29 8 3876.3 13.87 176.22
 110.00 8 58 11 2493.46 -33.95 59.15 266.52 85.73 9 39 45 1893.5 -34.17 49.91
 110.00 0 8 16 4320.33 21.48 169.32 251.47 82.75 1 20 16 3720.3 17.66 162.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1614 TRA-2.7088 TC3 -.2702 BAU .3031 SGT 1984.3 SGR 443.0 SG3 103.3 ST 908.3 SR 381.2 SS 794.0
 RDE -.5941 RRA .3157 RC3 -.0602 FAU .01390 RRT -.0436 RRF .0509 RTF -.8838 CRT .7031 CRS .7907 CST .9908
 FDE .8949 FRA 1.5532 FC3 -.1469 BSP 6311 SGB 2033.2 R23 -.0104 R13 .8838 LSA 1238.0 MSA 260.5 SSA 16.9
 BOE 1.3045 BRA 2.7272 BC3 .2768 FSP -278 SG1 1984.4 SG2 442.5 THA 179.41 EL1 950.4 EL2 259.1 ALF 17.81

LAUNCH DATE NOV 23 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 260.074

RL 147.71 LAL .00 LOL 60.77 VL 25.082 GAL 13.79 AZL 86.55 MCA 101.18 SMA 113.64 ECC .37625 INC 3.4496 V1 30.163
 RP 107.58 LAP 3.38 LOP 161.97 VP 36.049 GAP -21.90 AZP 90.67 TAL 154.48 TAP 255.66 RCA 70.89 APO 156.40 V2 35.226
 RC 52.393 GL 9.67 GP -2.28 ZAL 43.69 ZAP 7.82 ETS 163.35 ZAE 140.69 ETE 198.27 ZAC 84.82 ETC 165.67 CLP 7.48

PLANETOCENTRIC CONIC

C3 76.117 VML 8.725 DLA 15.96 RAL 12.74 RAD 6569.5 VEL 14.052 PTH 2.56 VHP 13.694 DPA -9.38 RAP 352.58 ECC 2.2527
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 45 3064.57 -27.55 101.11 265.12 83.20 6 46 50 2464.6 -28.21 92.50
 90.00 22 9 37 4667.52 14.52 198.69 253.53 65.42 23 27 25 4067.5 11.08 191.69
 100.00 7 25 58 2773.65 -29.31 79.93 265.35 83.83 8 12 12 2173.7 -29.85 71.17
 100.00 23 22 6 4433.67 16.12 180.72 252.76 64.48 24 35 59 3833.7 12.55 173.75
 110.00 8 53 53 2498.55 -33.92 59.55 265.85 85.50 9 35 32 1898.6 -34.17 50.31
 110.00 0 14 36 4281.53 20.25 166.98 250.56 61.86 1 25 57 3681.5 16.33 160.05

DIFFERENTIAL CORRECTIONS

TDE -1.1705 TRA -2.7060 TC3 -.2733 BAU .2859
 RDE -.5575 RRA .2964 RC3 -.0652 FAU .01441
 FDE .9389 FRA 1.6096 FC3 -.1639 BSP 6574
 BDE 1.2965 BRA 2.7222 BC3 .2810 FSP -303

MID-COURSE EXECUTION ACCURACY

SGT 2057.9 SGR 433.6 SCS 111.7
 RRT -.0431 RRF .0523 RTF -.8909
 SGB 2103.1 R23 -.0121 R13 .8909
 SGI 2058.0 SGI 433.1 TMA 179.46

ORBIT DETERMINATION ACCURACY

ST 947.9 SR 371.2 SS 827.4
 CRT .7044 CRS .7925 CST .9907
 LSA 1286.6 MSA 255.8 SSA 16.9
 EL1 986.0 EL2 253.3 ALF 16.54

LAUNCH DATE NOV 23 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 266.859

RL 147.71 LAL .00 LOL 60.77 VL 25.304 GAL 13.23 AZL 86.50 MCA 104.42 SMA 114.74 ECC .36137 INC 3.5040 V1 30.163
 RP 107.60 LAP 3.39 LOP 165.22 VP 36.196 GAP -20.90 AZP 90.87 TAL 153.94 TAP 258.36 RCA 73.28 APO 156.21 V2 35.219
 RC 50.852 GL 10.31 GP -2.43 ZAL 43.33 ZAP 6.62 ETS 158.82 ZAE 142.34 ETE 199.76 ZAC 86.71 ETC 165.89 CLP 6.16

PLANETOCENTRIC CONIC

C3 70.798 VML 8.414 DLA 16.74 RAL 12.94 RAD 6569.4 VEL 13.862 PTH 2.53 VHP 13.131 DPA -8.75 RAP 354.41 ECC 2.1652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 8 3076.26 -27.46 101.95 264.35 82.79 6 40 24 2476.3 -28.17 93.35
 90.00 22 17 52 4621.94 13.21 195.98 252.70 64.73 23 34 54 4021.9 9.70 189.06
 100.00 7 19 59 2783.29 -29.23 80.64 264.60 83.46 8 6 22 2183.3 -29.83 71.89
 100.00 23 29 43 4390.14 14.82 178.14 251.90 63.74 24 42 53 3790.1 11.18 171.24
 110.00 8 49 13 2504.09 -33.89 59.98 265.14 85.25 9 30 57 1904.1 -34.18 50.74
 110.00 0 20 54 4242.10 18.97 164.64 249.63 61.02 1 31 36 3642.1 14.96 157.82

DIFFERENTIAL CORRECTIONS

TDE -1.1803 TRA -2.7006 TC3 -.2751 BAU .2688
 RDE -.5216 RRA .2779 RC3 -.0703 FAU .01498
 FDE .9869 FRA 1.6695 FC3 -.1831 BSP 6836
 BDE 1.2904 BRA 2.7149 BC3 .2840 FSP -330

MID-COURSE EXECUTION ACCURACY

SGT 2132.6 SGR 423.4 SCS 120.8
 RRT -.0434 RRF .0547 RTF -.8976
 SGB 2174.2 R23 -.0141 R13 .8976
 SGI 2132.7 SGI 422.9 TMA 179.49

ORBIT DETERMINATION ACCURACY

ST 989.0 SR 360.1 SS 862.9
 CRT .7058 CRS .7942 CST .9906
 LSA 1337.6 MSA 250.6 SSA 16.9
 EL1 1023.2 EL2 246.6 ALF 15.33

LAUNCH DATE NOV 23 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 273.661

RL 147.71 LAL .00 LOL 60.77 VL 25.512 GAL 12.69 AZL 86.44 MCA 107.66 SMA 115.80 ECC .34718 INC 3.5600 V1 30.163
 RP 107.62 LAP 3.39 LOP 168.46 VP 36.335 GAP -19.92 AZP 91.08 TAL 153.44 TAP 261.10 RCA 75.60 APO 156.00 V2 35.211
 RC 49.405 GL 10.97 GP -2.61 ZAL 43.03 ZAP 5.48 ETS 152.06 ZAE 144.10 ETE 201.45 ZAC 88.59 ETC 166.10 CLP 4.82

PLANETOCENTRIC CONIC

C3 65.920 VML 8.119 DLA 17.53 RAL 13.09 RAD 6569.3 VEL 13.685 PTH 2.50 VHP 12.584 DPA -8.14 RAP 356.24 ECC 2.0849
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 41 58 3089.03 -27.34 102.86 263.53 82.34 6 33 27 2489.0 -28.12 94.28
 90.00 22 26 16 4575.24 11.84 193.24 251.87 64.09 23 42 31 3975.2 8.26 186.39
 100.00 7 13 31 2793.82 -29.15 81.41 263.79 83.07 8 0 4 2193.8 -29.80 72.67
 100.00 23 37 25 4345.68 13.47 175.53 251.04 63.06 24 49 50 3745.7 9.75 168.72
 110.00 8 44 9 2510.23 -33.86 60.45 264.37 84.97 9 25 59 1910.2 -34.18 51.22
 110.00 0 27 11 4202.03 17.63 162.31 248.71 60.23 1 37 13 3602.0 13.54 155.59

DIFFERENTIAL CORRECTIONS

TDE -1.1904 TRA -2.6921 TC3 -.2753 BAU .2517
 RDE -.4863 RRA .2606 RC3 -.0757 FAU .01560
 FDE 1.0393 FRA 1.7330 FC3 -.2049 BSP 7107
 BDE 1.2859 BRA 2.7047 BC3 .2856 FSP -360

MID-COURSE EXECUTION ACCURACY

SGT 2207.9 SGR 412.4 SCS 130.8
 RRT -.0449 RRF .0585 RTF -.9039
 SGB 2246.1 R23 -.0164 R13 .9040
 SGI 2208.0 SGI 412.0 TMA 179.50

ORBIT DETERMINATION ACCURACY

ST 1031.1 SR 348.0 SS 900.5
 CRT .7072 CRS .7958 CST .9906
 LSA 1391.0 MSA 244.9 SSA 16.9
 EL1 1061.7 EL2 239.0 ALF 14.16

LAUNCH DATE NOV 23 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 280.474

RL 147.71 LAL .00 LOL 60.77 VL 25.707 GAL 12.18 AZL 86.38 MCA 110.90 SMA 116.82 ECC .33367 INC 3.6180 V1 30.163
 RP 107.65 LAP 3.38 LOP 171.71 VP 36.463 GAP -18.98 AZP 91.29 TAL 152.97 TAP 263.86 RCA 77.84 APO 155.79 V2 35.202
 RC 48.064 GL 11.67 GP -2.80 ZAL 42.78 ZAP 4.45 ETS 141.59 ZAE 145.97 ETE 203.40 ZAC 90.46 ETC 166.30 CLP 3.46

PLANETOCENTRIC CONIC

C3 61.452 VML 7.839 DLA 18.33 RAL 13.20 RAD 6569.1 VEL 13.521 PTH 2.47 VHP 12.053 DPA -7.55 RAP 358.06 ECC 2.0113
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 34 11 3103.12 -27.21 103.88 262.64 81.85 6 25 54 2503.1 -28.06 95.31
 90.00 22 34 52 4527.32 10.40 190.45 251.04 63.51 23 50 19 3927.3 6.76 183.66
 100.00 7 6 29 2805.46 -29.05 82.26 262.93 82.63 7 53 15 2205.5 -29.77 73.53
 100.00 23 45 15 4300.21 12.05 172.90 250.18 62.44 24 56 55 3700.2 8.27 166.16
 110.00 8 38 39 2517.13 -33.81 60.99 263.55 84.65 9 20 36 1917.1 -34.18 51.76
 110.00 0 33 30 4161.31 16.24 159.97 247.78 59.50 1 42 52 3561.3 12.07 153.34

DIFFERENTIAL CORRECTIONS

TDE -1.2011 TRA -2.6806 TC3 -.2757 BAU .2345
 RDE -.4515 RRA .2444 RC3 -.0813 FAU .01630
 FDE 1.0969 FRA 1.8007 FC3 -.2296 BSP 7376
 BDE 1.2831 BRA 2.6917 BC3 .2855 FSP -393

MID-COURSE EXECUTION ACCURACY

SGT 2283.5 SGR 400.7 SCS 141.8
 RRT -.0482 RRF .0642 RTF -.9099
 SGB 2318.4 R23 -.0190 R13 .9100
 SGI 2283.6 SGI 400.2 TMA 179.50

ORBIT DETERMINATION ACCURACY

ST 1074.3 SR 334.8 SS 940.6
 CRT .7083 CRS .7970 CST .9905
 LSA 1447.0 MSA 238.7 SSA 16.9
 EL1 1101.4 EL2 230.5 ALF 13.03

LAUNCH DATE NOV 23 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 287.296

RL 147.71 LAL .00 LOL 60.77 VL 25.889 GAL 11.69 AZL 86.32 MCA 114.13 SMA 117.79 ECC .32081 INC 3.6785 V1 30.163
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.583 GAP -18.07 AZP 91.51 TAL 152.53 TAP 266.66 RCA 80.00 APO 155.58 V2 35.194
 RC 46.839 GL 12.40 GP -3.02 ZAL 42.59 ZAP 3.67 ETS 125.33 ZAE 147.94 ETE 205.66 ZAC 92.32 ETC 166.50 CLP 2.09

PLANETOCENTRIC CONIC

C3 57.365 VHL 7.574 DLA 19.14 RAL 13.24 RAD 6569.0 VEL 13.369 PTH 2.44 VHP 11.538 DPA -6.99 RAP 359.86 ECC 1.9441
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 25 42 3118.86 -27.06 105.00 261.71 81.31 6 17 41 2518.9 -27.98 96.46
 90.00 22 43 44 4478.01 8.89 187.62 250.22 63.00 23 58 22 3878.0 5.20 180.88
 100.00 6 58 52 2818.47 -28.93 83.21 262.02 82.14 7 45 50 2218.5 -29.72 74.50
 100.00 23 53 16 4253.71 10.57 170.23 249.33 61.88 25 4 9 3653.7 6.73 163.55
 110.00 8 32 40 2524.96 -33.76 61.59 262.69 84.30 9 14 45 1925.0 -34.18 52.37
 110.00 0 39 52 4119.91 14.80 157.63 246.87 58.83 1 48 32 3519.9 10.56 151.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2135 TRA -2.6671 TC3 -.2707 BAU .2180 SGT 2360.5 SGR 388.3 SG3 153.9 ST 1119.5 SR 320.4 SS 983.7
 RDE -.4172 RRA .2296 RC3 -.0870 FAU .01706 RRT -.0534 RRF .0725 RTF -.9156 CRT .7093 CRS .7978 CST .9905
 FDE 1.1607 FRA 1.8733 FC3 -.2574 BSP 7630 SGB 2392.3 R23 -.0222 R13 .9156 LSA 1506.5 MSA 232.1 SSA 16.8
 BOE 1.2832 BRA 2.6770 BC3 .2843 FSP -429 SG1 2360.6 SG2 387.7 THA 179.48 EL1 1143.3 EL2 221.2 ALF 11.93

LAUNCH DATE NOV 23 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 294.124

RL 147.71 LAL .00 LOL 60.77 VL 26.059 GAL 11.22 AZL 86.26 MCA 117.37 SMA 118.72 ECC .30861 INC 3.7421 V1 30.163
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.695 GAP -17.19 AZP 91.72 TAL 152.13 TAP 269.50 RCA 82.08 APO 155.36 V2 35.184
 RC 45.742 GL 13.17 GP -3.27 ZAL 42.47 ZAP 3.34 ETS 102.78 ZAE 149.98 ETE 208.32 ZAC 94.17 ETC 166.70 CLP .70

PLANETOCENTRIC CONIC

C3 53.631 VHL 7.323 DLA 19.98 RAL 13.24 RAD 6568.9 VEL 13.228 PTH 2.42 VHP 11.040 DPA -6.46 RAP 1.65 ECC 1.8826
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 16 27 3136.61 -26.87 106.26 260.73 80.70 6 8 43 2536.6 -27.88 97.74
 90.00 22 52 57 4427.12 7.30 184.72 249.42 62.57 24 6 44 3827.1 3.57 178.03
 100.00 6 50 33 2833.13 -28.79 84.28 261.07 81.60 7 37 46 2233.1 -29.65 75.58
 100.00 0 5 27 4205.83 9.02 167.53 248.50 61.38 1 15 33 3605.8 5.13 160.90
 110.00 8 26 11 2533.95 -33.70 62.29 261.80 83.89 9 8 25 1933.9 -34.18 53.08
 110.00 0 46 19 4077.77 13.30 155.28 245.96 58.22 1 54 17 3477.8 9.00 148.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2225 TRA -2.6467 TC3 -.2635 BAU .2003 SGT 2432.7 SGR 375.2 SG3 167.1 ST 1162.7 SR 304.6 SS 1029.0
 RDE -.3831 RRA .2164 RC3 -.0929 FAU .01794 RRT -.0632 RRF .0850 RTF -.9209 CRT .7088 CRS .7978 CST .9905
 FDE 1.2303 FRA 1.9499 FC3 -.2897 BSP 7974 SGB 2461.5 R23 -.0254 R13 .9209 LSA 1566.0 MSA 225.3 SSA 16.7
 BOE 1.2811 BRA 2.6555 BC3 .2794 FSP -471 SG1 2432.8 SG2 374.5 THA 179.43 EL1 1183.2 EL2 211.1 ALF 10.87

LAUNCH DATE NOV 23 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 300.954

RL 147.71 LAL .00 LOL 60.77 VL 26.218 GAL 10.78 AZL 86.19 MCA 120.60 SMA 119.61 ECC .29703 INC 3.8095 V1 30.163
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.798 GAP -16.34 AZP 91.94 TAL 151.76 TAP 272.36 RCA 84.08 APO 155.14 V2 35.174
 RC 44.782 GL 13.97 GP -3.56 ZAL 42.40 ZAP 3.63 ETS 79.39 ZAE 152.06 ETE 211.47 ZAC 95.99 ETC 166.90 CLP -.72

PLANETOCENTRIC CONIC

C3 50.228 VHL 7.087 DLA 20.83 RAL 13.18 RAD 6568.8 VEL 13.099 PTH 2.39 VHP 10.557 DPA -5.97 RAP 3.43 ECC 1.8266
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 16 3156.83 -26.64 107.70 259.70 80.02 5 58 53 2556.8 -27.74 99.21
 90.00 23 2 39 4374.33 5.64 181.73 248.65 62.20 24 15 33 3774.3 1.87 175.08
 100.00 6 41 29 2849.82 -28.62 85.49 260.07 80.98 7 28 58 2249.8 -29.57 76.81
 100.00 0 14 3 4156.58 7.41 164.77 247.68 60.96 1 23 19 3556.6 3.48 158.18
 110.00 8 19 8 2544.31 -33.62 63.09 260.87 83.43 9 1 32 1944.3 -34.16 53.89
 110.00 0 52 53 4034.85 11.75 152.93 245.07 57.67 2 0 8 3434.9 7.40 146.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2372 TRA -2.6268 TC3 -.2554 BAU .1839 SGT 2508.8 SGR 361.7 SG3 181.8 ST 1210.4 SR 287.4 SS 1078.6
 RDE -.3493 RRA .2048 RC3 -.0990 FAU .01886 RRT -.0764 RRF .1018 RTF -.9261 CRT .7080 CRS .7966 CST .9906
 FDE 1.3089 FRA 2.0334 FC3 -.3252 BSP 8222 SGB 2534.7 R23 -.0297 R13 .9262 LSA 1631.9 MSA 218.0 SSA 16.5
 BOE 1.2856 BRA 2.6348 BC3 .2739 FSP -515 SG1 2508.9 SG2 360.6 THA 179.36 EL1 1227.9 EL2 200.1 ALF 9.80

LAUNCH DATE NOV 23 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 307.784

RL 147.71 LAL .00 LOL 60.77 VL 26.366 GAL 10.35 AZL 86.12 MCA 123.83 SMA 120.46 ECC .28608 INC 3.8816 V1 30.163
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.894 GAP -15.51 AZP 92.16 TAL 151.43 TAP 275.27 RCA 86.00 APO 154.92 V2 35.164
 RC 43.971 GL 14.82 GP -3.88 ZAL 42.40 ZAP 4.44 ETS 61.75 ZAE 154.14 ETE 215.23 ZAC 97.80 ETC 167.10 CLP -2.17

PLANETOCENTRIC CONIC

C3 47.132 VHL 6.865 DLA 21.70 RAL 13.06 RAD 6568.8 VEL 12.981 PTH 2.37 VHP 10.089 DPA -5.53 RAP 5.20 ECC 1.7757
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 0 3180.13 -26.35 109.35 258.62 79.24 5 48 0 2580.1 -27.57 100.89
 90.00 23 12 58 4319.24 3.88 178.64 247.91 61.93 24 24 57 3719.2 .09 172.00
 100.00 6 31 30 2868.97 -28.41 86.87 259.03 80.28 7 19 19 2269.0 -29.46 78.23
 100.00 0 23 5 4105.63 5.71 161.93 246.90 60.61 1 31 30 3505.6 1.75 155.38
 110.00 8 11 26 2556.33 -33.52 64.01 259.92 82.89 8 54 2 1956.3 -34.14 54.82
 110.00 0 59 38 3991.04 10.14 150.55 244.21 57.18 2 6 9 3391.0 5.74 144.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2530 TRA -2.6056 TC3 -.2459 BAU .1686 SGT 2585.6 SGR 347.8 SG3 197.9 ST 1259.6 SR 268.5 SS 1132.1
 RDE -.3155 RRA .1951 RC3 -.1053 FAU .01988 RRT -.0957 RRF .1253 RTF -.9309 CRT .7050 CRS .7937 CST .9907
 FDE 1.3968 FRA 2.1234 FC3 -.3651 BSP 8463 SGB 2608.9 R23 -.0348 R13 .9309 LSA 1701.7 MSA 210.7 SSA 16.3
 BOE 1.2921 BRA 2.6128 BC3 .2675 FSP -563 SG1 2585.8 SG2 346.1 THA 179.25 EL1 1274.1 EL2 188.3 ALF 8.74

LAUNCH DATE NOV 23 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 26.505 GAL 9.95 AZL 86.04 MCA 127.06 SMA 121.26 ECC .27572 INC 3.9593 V1 30.163
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.983 GAP -14.71 AZP 92.39 TAL 151.14 TAP 278.20 RCA 87.83 APO 154.70 V2 35.153
 RC 43.319 GL 15.71 GP -4.26 ZAL 42.47 ZAP 5.60 ETS 50.41 ZAE 156.16 ETE 219.77 ZAC 99.58 ETC 167.32 CLP -3.65

PLANETOCENTRIC CONIC

C3 44.323 VHL 6.658 DLA 22.60 RAL 12.88 RAD 6568.7 VEL 12.872 PTH 2.34 VHP 9.637 DPA -5.15 RAP 6.95 ECC 1.7294
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 42 25 3207.31 -25.99 111.26 257.48 78.35 5 35 53 2607.3 -27.34 102.85
 90.00 23 24 8 4261.20 2.01 175.39 247.22 61.75 24 35 9 3661.2 -1.78 168.77
 100.00 6 20 28 2891.16 -28.14 88.47 257.96 79.48 7 8 39 2291.2 -29.31 79.86
 100.00 0 32 42 4052.58 3.93 159.00 246.16 60.34 1 40 15 3452.6 -.05 152.47
 110.00 8 3 1 2570.33 -33.40 65.08 258.94 82.26 8 45 52 1970.3 -34.11 55.92
 110.00 1 6 38 3946.18 8.47 148.14 243.37 56.76 2 12 24 3346.2 4.04 141.86

DIFFERENTIAL CORRECTIONS

TDE -1.2657 TRA -2.5759 TC3 -.2302 BAU .1516
 RDE -.2813 RRA .1877 RC3 -.1118 FAU .02108
 FDE 1.4937 FRA 2.2185 FC3 -.4117 BSP 8803
 BOE 1.2966 BRA 2.5827 BC3 .2559 FSP -620

MID-COURSE EXECUTION ACCURACY

SGT 2654.6 SGR 333.8 SG3 215.7
 RRT -.1251 RRF .1587 RTF -.9355
 SGB 2675.5 R23 -.0402 R13 .9356
 SG1 2654.9 SG2 331.1 THA 179.08

ORBIT DETERMINATION ACCURACY

ST 1306.0 SR 247.8 SS 1188.6
 CRT .6983 CRS .7877 CST .9908
 LSA 1771.5 MSA 203.5 SSA 16.0
 EL1 1317.6 EL2 175.8 ALF 7.68

LAUNCH DATE NOV 23 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 26.633 GAL 9.57 AZL 85.96 MCA 130.29 SMA 122.02 ECC .26594 INC 4.0438 V1 30.163
 RP 107.84 LAP 3.08 LOP 191.13 VP 37.064 GAP -13.94 AZP 92.62 TAL 150.86 TAP 281.17 RCA 89.57 APO 154.48 V2 35.141
 RC 42.834 GL 16.65 GP -4.69 ZAL 42.60 ZAP 6.97 ETS 43.30 ZAE 158.06 ETE 225.22 ZAC 101.34 ETC 167.55 CLP -5.16

PLANETOCENTRIC CONIC

C3 41.783 VHL 6.464 DLA 23.54 RAL 12.64 RAD 6568.6 VEL 12.773 PTH 2.32 VHP 9.200 DPA -4.84 RAP 8.69 ECC 1.6876
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 28 10 3239.54 -25.53 113.50 256.29 77.31 5 22 9 2639.5 -27.02 105.15
 90.00 23 36 29 4199.25 .01 171.94 246.60 61.68 24 46 28 3599.2 -3.77 165.30
 100.00 6 8 9 2917.16 -27.81 90.33 256.84 78.56 6 56 46 2317.2 -29.10 81.77
 100.00 0 43 7 3996.85 2.05 155.93 245.47 60.17 1 49 44 3396.9 -1.94 149.41
 110.00 7 53 46 2586.70 -33.24 66.34 257.94 81.54 8 36 53 1986.7 -34.05 57.19
 110.00 1 13 58 3900.08 6.75 145.69 242.56 56.41 2 18 59 3300.1 2.28 139.45

DIFFERENTIAL CORRECTIONS

TDE -1.2805 TRA -2.5439 TC3 -.2122 BAU .1358
 RDE -.2466 RRA .1828 RC3 -.1185 FAU .02235
 FDE 1.6031 FRA 2.3212 FC3 -.4640 BSP 9124
 BOE 1.3041 BRA 2.5505 BC3 .2431 FSP -683

MID-COURSE EXECUTION ACCURACY

SGT 2722.6 SGR 320.1 SG3 235.3
 RRT -.1658 RRF .2041 RTF -.9398
 SGB 2741.4 R23 -.0468 R13 .9399
 SG1 2723.1 SG2 315.6 THA 178.87

ORBIT DETERMINATION ACCURACY

ST 1353.8 SR 224.9 SS 1249.9
 CRT .6863 CRS .7769 CST .9909
 LSA 1845.8 MSA 196.5 SSA 15.6
 EL1 1362.7 EL2 162.5 ALF 6.60

LAUNCH DATE NOV 23 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 26.753 GAL 9.21 AZL 85.86 MCA 133.51 SMA 122.75 ECC .25674 INC 4.1367 V1 30.163
 RP 107.87 LAP 3.00 LOP 194.36 VP 37.135 GAP -13.18 AZP 92.85 TAL 150.66 TAP 284.17 RCA 91.23 APO 154.26 V2 35.129
 RC 42.524 GL 17.64 GP -5.20 ZAL 42.80 ZAP 8.49 ETS 38.80 ZAE 159.73 ETE 231.72 ZAC 103.08 ETC 167.81 CLP -6.72

PLANETOCENTRIC CONIC

C3 39.498 VHL 6.285 DLA 24.50 RAL 12.34 RAD 6568.5 VEL 12.683 PTH 2.30 VHP 8.777 DPA -4.61 RAP 10.41 ECC 1.6500
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 41 3278.61 -24.92 116.20 255.02 76.09 5 6 20 2678.6 -26.59 107.93
 90.00 23 50 32 4131.78 -2.16 168.18 246.08 61.76 24 59 24 3531.8 -5.92 161.51
 100.00 5 54 12 2948.05 -27.37 92.52 255.66 77.49 6 43 21 2348.1 -28.82 84.02
 100.00 0 54 37 3937.57 .04 152.68 244.86 60.11 2 0 15 3337.6 -3.94 146.15
 110.00 7 43 33 2605.97 -33.04 67.80 256.93 80.69 8 26 59 2006.0 -33.97 58.69
 110.00 1 21 46 3852.42 4.94 143.18 241.80 56.13 2 25 59 3252.4 .46 136.96

DIFFERENTIAL CORRECTIONS

TDE -1.2975 TRA -2.5091 TC3 -.1916 BAU .1210
 RDE -.2107 RRA .1808 RC3 -.1257 FAU .02384
 FDE 1.7271 FRA 2.4321 FC3 -.5226 BSP 9431
 BOE 1.3145 BRA 2.5156 BC3 .2291 FSP -752

MID-COURSE EXECUTION ACCURACY

SGT 2788.7 SGR 307.6 SG3 257.0
 RRT -.2215 RRF .2651 RTF -.9439
 SGB 2805.6 R23 -.0550 R13 .9441
 SG1 2789.5 SG2 299.9 THA 178.58

ORBIT DETERMINATION ACCURACY

ST 1402.9 SR 199.7 SS 1316.6
 CRT .6650 CRS .7576 CST .9910
 LSA 1924.9 MSA 189.6 SSA 15.1
 EL1 1409.2 EL2 148.5 ALF 5.47

LAUNCH DATE NOV 23 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 26.864 GAL 8.86 AZL 85.76 MCA 136.73 SMA 123.43 ECC .24808 INC 4.2401 V1 30.163
 RP 107.91 LAP 2.90 LOP 197.55 VP 37.208 GAP -12.45 AZP 93.08 TAL 150.47 TAP 287.20 RCA 92.81 APO 154.04 V2 35.117
 RC 42.392 GL 18.70 GP -5.80 ZAL 43.08 ZAP 10.14 ETS 35.94 ZAE 161.06 ETE 239.32 ZAC 104.78 ETC 168.11 CLP -8.33

PLANETOCENTRIC CONIC

C3 37.453 VHL 6.120 DLA 25.51 RAL 11.96 RAD 6568.5 VEL 12.602 PTH 2.29 VHP 8.370 DPA -4.49 RAP 12.13 ECC 1.6164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 51 59 3327.67 -24.07 119.55 253.63 74.62 4 47 27 2727.7 -25.95 111.38
 90.00 0 11 9 4055.85 -4.60 163.93 245.70 62.03 1 18 45 3455.8 -8.31 157.21
 100.00 5 38 7 2985.49 -26.79 95.15 254.42 76.22 6 27 53 2385.5 -28.42 86.73
 100.00 1 7 42 3873.25 -2.14 149.15 244.34 60.18 2 12 16 3273.3 -6.09 142.60
 110.00 7 32 8 2628.79 -32.78 69.53 255.85 79.70 8 15 56 2028.8 -33.85 60.46
 110.00 1 30 11 3802.72 3.05 140.57 241.10 55.94 2 33 34 3202.7 -1.44 134.37

DIFFERENTIAL CORRECTIONS

TDE -1.2902 TRA -2.4443 TC3 -.1403 BAU .0968
 RDE -.1728 RRA .1824 RC3 -.1331 FAU .02605
 FDE 1.8536 FRA 2.5367 FC3 -.6030 BSP 10365
 BOE 1.3018 BRA 2.4511 BC3 .1934 FSP -859

MID-COURSE EXECUTION ACCURACY

SGT 2813.8 SGR 297.5 SG3 279.7
 RRT -.3062 RRF .3502 RTF -.9486
 SGB 2829.5 R23 -.0596 R13 .9488
 SG1 2815.3 SG2 283.1 THA 178.13

ORBIT DETERMINATION ACCURACY

ST 1427.5 SR 171.5 SS 1378.9
 CRT .6219 CRS .7212 CST .9908
 LSA 1983.5 MSA 184.5 SSA 14.2
 EL1 1431.5 EL2 134.0 ALF 4.31

LAUNCH DATE NOV 23 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 341.852

RL 147.71 LAL .00 LOL 60.77 VL 26.967 GAL 8.54 AZL 85.64 HCA 139.95 SMA 124.06 ECC .23998 INC 4.3565 V1 30.163
 RP 107.99 LAP 2.80 LOP 200.81 VP 37.271 GAP -11.74 AZP 93.34 TAL 150.30 TAP 290.26 RCA 94.29 APO 153.84 V2 35.105
 RC 42.442 GL 19.83 GP -6.51 ZAL 43.43 ZAP 11.91 ETS 34.19 ZAE 161.95 ETE 247.84 ZAC 106.45 ETC 168.47 CLP -9.99

PLANETOCENTRIC CONIC

C3 35.654 VHL 5.971 DLA 26.57 RAL 11.52 RAD 6568.4 VEL 12.531 PTH 2.27 VHP 7.979 DPA -4.49 RAP 13.84 ECC 1.5868
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 27 4 3393.39 -22.82 123.95 252.07 72.76 4 23 37 2793.4 -24.96 115.94
 90.00 0 32 32 3965.25 -7.47 158.81 245.57 62.61 1 38 38 3365.2 -11.08 152.00
 100.00 5 19 3 3032.34 -25.99 98.40 253.08 74.68 6 9 36 2432.3 -27.84 90.09
 100.00 1 23 14 3801.53 -4.56 145.20 243.98 60.43 2 26 35 3201.5 -8.47 138.59
 110.00 7 19 16 2656.18 -32.42 71.59 254.84 78.53 8 3 33 2056.2 -33.66 62.58
 110.00 1 39 30 3750.46 1.06 137.85 240.49 55.83 2 42 1 3150.5 -3.43 131.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4033 TRA-2.4948 TC3 -.2165 BAU .1234
 ROE -.1330 RRA .1876 RC3 -.1421 FAU .02545
 FOE 2.0681 FRA 2.7193 FC3 -.6181 BSP 8452
 BOE 1.4096 BRA 2.5018 BC3 .2590 FSP -838

SGT 3007.2 SGR 292.6 SG3 311.4
 RRT -.3671 RRF .4355 RTF -.9492
 SGB 3021.4 R23 -.0905 R13 .9495
 SG1 3009.2 SG2 272.0 THA 177.94

ST 1567.8 SR 141.2 SS 1495.3
 CRT .5571 CRS .6536 CST .9924
 LSA 2164.2 MSA 173.8 SSA 14.6
 EL1 1569.8 EL2 117.1 ALF 2.89

LAUNCH DATE NOV 23 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 348.631

RL 147.71 LAL .00 LOL 60.77 VL 27.062 GAL 8.24 AZL 85.51 HCA 143.17 SMA 124.67 ECC .23237 INC 4.4895 V1 30.163
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.328 GAP -11.05 AZP 93.60 TAL 150.18 TAP 293.35 RCA 95.70 APO 153.63 V2 35.092
 RC 42.671 GL 21.05 GP -7.37 ZAL 43.88 ZAP 13.81 ETS 33.24 ZAE 162.31 ETE 256.82 ZAC 108.09 ETC 168.89 CLP -11.71

PLANETOCENTRIC CONIC

C3 34.069 VHL 5.837 DLA 27.69 RAL 10.98 RAD 6568.3 VEL 12.468 PTH 2.26 VHP 7.603 DPA -4.66 RAP 15.55 ECC 1.5607
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 50 3 3497.34 -20.56 130.74 250.01 70.09 3 48 20 2897.3 -23.09 122.98
 90.00 1 5 16 3838.34 -11.36 151.52 245.95 63.89 2 9 14 3238.3 -14.78 144.51
 100.00 4 55 9 3094.06 -24.81 102.61 251.55 72.77 5 46 43 2494.1 -26.93 94.45
 100.00 1 42 51 3716.84 -7.39 140.50 243.85 60.95 2 44 48 3116.8 -11.20 133.80
 110.00 7 4 27 2689.37 -31.95 74.06 253.73 77.14 7 49 17 2089.4 -33.39 65.13
 110.00 1 50 2 3694.30 -1.09 134.92 239.96 55.83 2 51 36 3094.3 -5.57 128.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3968 TRA-2.4181 TC3 -.1560 BAU .0990
 ROE -.0882 RRA .1985 RC3 -.1513 FAU .02810
 FOE 2.2372 FRA 2.8394 FC3 -.7142 BSP 9471
 BOE 1.3996 BRA 2.4262 BC3 .2173 FSP -967

SGT 3016.4 SGR 295.2 SG3 339.3
 RRT -.4931 RRF .5605 RTF -.9536
 SGB 3030.9 R23 -.0998 R13 .9540
 SG1 3020.0 SG2 256.5 THA 177.22

ST 1589.6 SR 109.0 SS 1570.5
 CRT .3791 CRS .4901 CST .9922
 LSA 2230.7 MS. 170.2 SSA 13.4
 EL1 1590.1 EL2 100.9 ALF 1.50

LAUNCH DATE NOV 23 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 355.397

RL 147.71 LAL .00 LOL 60.77 VL 27.151 GAL 7.95 AZL 85.36 HCA 146.39 SMA 125.23 ECC .22526 INC 4.6440 V1 30.163
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.380 GAP -10.38 AZP 93.87 TAL 150.08 TAP 296.47 RCA 97.02 APO 153.44 V2 35.080
 RC 43.078 GL 22.37 GP -8.41 ZAL 44.42 ZAP 15.87 ETS 32.93 ZAE 162.07 ETE 265.60 ZAC 109.69 ETC 169.41 CLP -13.50

PLANETOCENTRIC CONIC

C3 32.716 VHL 5.720 DLA 28.89 RAL 10.35 RAD 6568.3 VEL 12.413 PTH 2.24 VHP 7.244 DPA -5.02 RAP 17.28 ECC 1.5384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.04 1 5 41 3817.61 -16.85 152.64 247.08 66.18 2 9 19 3217.6 -19.92 145.27
 95.96 2 44 34 3497.62 -16.83 129.18 247.08 66.17 3 42 52 2897.6 -19.91 121.82
 100.00 4 21 31 3186.20 -22.81 108.73 249.63 70.14 5 14 37 2586.2 -25.31 100.82
 100.00 2 11 26 3604.27 -11.05 134.15 244.19 62.05 3 11 30 3004.3 -14.70 127.27
 110.00 6 47 1 2730.61 -31.28 77.09 252.57 75.46 7 32 32 2130.6 -32.96 68.27
 110.00 2 2 25 3632.62 -3.44 131.70 239.59 55.97 3 2 57 3032.6 -7.89 125.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4231 TRA-2.3670 TC3 -.1267 BAU .0900
 ROE -.0377 RRA .2157 RC3 -.1620 FAU .03013
 FOE 2.4525 FRA 2.9854 FC3 -.7974 BSP 9775
 BOE 1.4236 BRA 2.3768 BC3 .2057 FSP -1070

SGT 3063.8 SGR 310.9 SG3 372.0
 RRT -.6167 RRF .6866 RTF -.9568
 SGB 3079.5 R23 -.1179 R13 .9574
 SG1 3069.8 SG2 244.2 THA 176.40

ST 1640.8 SR 83.3 SS 1666.2
 CRT -.0458 CRS .0758 CST .9924
 LSA 2334.0 MSA 166.1 SSA 12.4
 EL1 1640.8 EL2 83.2 ALF 179.87

LAUNCH DATE NOV 23 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 362.148

RL 147.71 LAL .00 LOL 60.77 VL 27.232 GAL 7.68 AZL 85.17 HCA 149.60 SMA 125.75 ECC .21864 INC 4.8268 V1 30.163
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.427 GAP -9.73 AZP 94.17 TAL 150.01 TAP 299.61 RCA 98.26 APO 153.25 V2 35.067
 RC 43.658 GL 23.83 GP -9.70 ZAL 45.08 ZAP 18.11 ETS 33.16 ZAE 161.25 ETE 273.48 ZAC 111.26 ETC 170.07 CLP -15.37

PLANETOCENTRIC CONIC

C3 31.600 VHL 5.621 DLA 30.19 RAL 9.60 RAD 6568.3 VEL 12.368 PTH 2.23 VHP 6.904 DPA -5.65 RAP 19.03 ECC 1.5201
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.08 0 23 55 3933.21 -17.81 161.65 246.11 65.21 1 29 28 3333.2 -21.00 154.29
 100.92 3 20 22 3364.56 -17.79 119.78 246.10 65.20 4 16 26 2764.6 -20.99 112.42
 79.08 0 23 55 3933.21 -17.81 161.65 246.11 65.21 1 29 28 3333.2 -21.00 154.29
 100.92 3 20 22 3364.56 -17.79 119.78 246.10 65.20 4 16 26 2764.6 -20.99 112.42
 110.00 6 25 41 2783.66 -30.31 80.92 251.27 73.38 7 12 5 2183.7 -32.29 72.26
 110.00 2 17 46 3562.11 -6.12 127.99 239.44 56.30 3 17 8 2962.1 -10.51 121.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4545 TRA-2.3118 TC3 -.0965 BAU .0843
 ROE .0216 RRA .2407 RC3 -.1747 FAU .03230
 FOE 2.7027 FRA 3.1373 FC3 -.8849 BSP 10062
 BOE 1.4546 BRA 2.3243 BC3 .1996 FSP -1185

SGT 3104.9 SGR 345.9 SG3 407.7
 RRT -.7310 RRF .8003 RTF -.9597
 SGB 3124.1 R23 -.1388 R13 .9606
 SG1 3115.2 SG2 235.2 THA 175.32

ST 1693.1 SR 88.2 SS 1771.6
 CRT -.6853 CRS -.5935 CST .9926
 LSA 2446.7 MSA 163.2 SSA 11.2
 EL1 1694.2 EL2 64.2 ALF 177.95

LAUNCH DATE NOV 23 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 368.883
 RL 147.71 LAL .00 LOL 60.77 VL 27.307 GAL 7.43 AZL 84.95 MCA 152.81 SMA 126.24 ECC .21248 INC 5.0482 V1 30.163
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.469 GAP -9.10 AZP 94.49 TAL 149.96 TAP 302.77 RCA 99.42 APO 153.07 V2 35.053
 RC 44.405 GL 25.45 GP -11.31 ZAL 45.88 ZAP 20.59 ETS 33.92 ZAE 159.85 ETE 279.95 ZAC 112.79 ETC 170.92 CLP -17.32

PLANETOCENTRIC CONIC

C3 30.745 VHL 5.545 DLA 31.62 RAL 8.70 RAD 6568.2 VEL 12.334 PTH 2.22 VHP 6.584 DPA -6.61 RAP 20.83 ECC 1.5060
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.31 23 49 19 4011.94 -18.80 168.06 245.16 64.10 24 56 11 3411.9 -22.13 160.71
 104.69 3 43 53 3272.03 -18.78 113.33 245.15 64.09 4 38 25 2672.0 -22.11 105.98
 75.31 23 49 19 4011.94 -18.80 168.06 245.16 64.10 24 56 11 3411.9 -22.13 160.71
 104.69 3 43 53 3272.03 -18.78 113.33 245.15 64.09 4 38 25 2672.0 -22.11 105.98
 110.00 5 57 48 2856.43 -28.78 86.04 249.69 70.71 6 45 24 2256.4 -31.14 77.63
 110.00 2 38 31 3475.54 -9.36 123.39 239.68 56.97 3 36 27 2875.5 -13.65 116.91

DIFFERENTIAL CORRECTIONS

TDE-1.4966 TRA-2.2554 TC3 -.0719 BAU .0835
 RDE .0942 RRA .2760 RC3 -.1901 FAU .03440
 FDE 2.9982 FRA 3.2934 FC3 -.9687 BSP 10239
 BDE 1.4995 BRA 2.2723 BC3 .2032 FSP -1303

MID-COURSE EXECUTION ACCURACY

SGT 3144.6 SGR 407.6 SG3 446.6
 RRT -.8197 RRF .8860 RTF -.9623
 SGB 3170.9 R23 -.1622 R13 .9636
 SG1 3162.4 SG2 232.2 THA 173.90

ORBIT DETERMINATION ACCURACY

ST 1750.9 SR 140.1 SS 1889.9
 CRT -.9503 CRS -.9076 CST .9929
 LSA 2575.1 MSA 161.4 SSA 9.9
 EL1 1756.0 EL2 43.5 ALF 175.65

LAUNCH DATE NOV 23 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 375.598
 RL 147.71 LAL .00 LOL 60.77 VL 27.376 GAL 7.19 AZL 84.68 MCA 156.02 SMA 126.70 ECC .20677 INC 5.3235 V1 30.163
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.507 GAP -8.49 AZP 94.87 TAL 149.93 TAP 305.95 RCA 100.50 APO 152.89 V2 35.040
 RC 45.309 GL 27.30 GP -13.38 ZAL 46.85 ZAP 23.38 ETS 35.20 ZAE 157.87 ETE 284.77 ZAC 114.29 ETC 172.05 CLP -17.35

PLANETOCENTRIC CONIC

C3 30.192 VHL 5.495 DLA 33.23 RAL 7.62 RAD 6568.2 VEL 12.311 PTH 2.22 VHP 6.291 DPA -8.02 RAP 22.75 ECC 1.4969
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.84 23 22 8 4078.47 -19.82 173.69 244.25 62.77 24 30 6 3478.5 -23.31 166.36
 108.16 4 2 25 3196.39 -19.81 108.09 244.24 62.76 4 55 41 2596.4 -23.30 100.76
 71.84 23 22 8 4078.47 -19.82 173.69 244.25 62.77 24 30 6 3478.5 -23.31 166.36
 108.16 4 2 25 3196.39 -19.81 108.09 244.24 62.76 4 55 41 2596.4 -23.30 100.76
 110.00 5 14 53 2974.04 -25.88 93.95 247.34 66.85 6 4 27 2374.0 -28.78 85.97
 110.00 3 12 46 3348.82 -13.98 116.47 240.81 58.48 4 8 35 2748.8 -18.05 109.72

DIFFERENTIAL CORRECTIONS

TDE-1.5456 TRA-2.1906 TC3 -.0447 BAU .0862
 RDE .1871 RRA .3246 RC3 -.2089 FAU .03656
 FDE 3.3419 FRA 3.4393 FC3 -1.0483 BSP 10477
 BDE 1.5569 BRA 2.2145 BC3 .2137 FSP -1434

MID-COURSE EXECUTION ACCURACY

SGT 3171.3 SGR 504.4 SG3 487.6
 RRT -.8801 RRF .9410 RTF -.9648
 SGB 3211.1 R23 -.1834 R13 .9667
 SG1 3202.4 SG2 237.2 THA 171.99

ORBIT DETERMINATION ACCURACY

ST 1807.9 SR 229.8 SS 2019.0
 CRT -.9958 CRS -.9792 CST .9931
 LSA 2715.1 MSA 161.3 SSA 8.5
 EL1 1822.3 EL2 20.9 ALF 172.78

LAUNCH DATE NOV 23 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 382.295
 RL 147.71 LAL .00 LOL 60.77 VL 27.439 GAL 6.97 AZL 84.32 MCA 159.22 SMA 127.12 ECC .20150 INC 5.6780 V1 30.163
 RP 108.19 LAP 2.01 LOP 220.08 VP 37.541 GAP -7.89 AZP 95.31 TAL 149.93 TAP 309.15 RCA 101.50 APO 152.73 V2 35.027
 RC 46.364 GL 29.46 GP -16.09 ZAL 48.07 ZAP 26.60 ETS 37.08 ZAE 155.24 ETE 287.92 ZAC 115.75 ETC 173.58 CLP -21.47

PLANETOCENTRIC CONIC

C3 30.027 VHL 5.480 DLA 35.08 RAL 6.27 RAD 6568.2 VEL 12.304 PTH 2.22 VHP 6.031 DPA -10.06 RAP 24.85 ECC 1.4942
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.37 22 55 50 4140.83 -20.88 179.16 243.39 61.15 24 4 51 3540.8 -24.56 171.87
 111.63 4 17 56 3131.28 -20.87 103.61 243.38 61.14 5 10 7 2531.3 -24.55 96.32
 68.37 22 55 50 4140.83 -20.88 179.16 243.39 61.15 24 4 51 3540.8 -24.56 171.87
 111.63 4 17 56 3131.28 -20.87 103.61 243.38 61.14 5 10 7 2531.3 -24.55 96.32
 68.37 22 55 50 4140.83 -20.88 179.16 243.39 61.15 24 4 51 3540.8 -24.56 171.87
 111.63 4 17 56 3131.28 -20.87 103.61 243.38 61.14 5 10 7 2531.3 -24.55 96.32

DIFFERENTIAL CORRECTIONS

TDE-1.6128 TRA-2.1222 TC3 -.0243 BAU .0936
 RDE .3121 RRA .3906 RC3 -.2319 FAU .03836
 FDE 3.7464 FRA 3.5613 FC3 -1.1061 BSP 10647
 BDE 1.6427 BRA 2.1579 BC3 .2332 FSP -1563

MID-COURSE EXECUTION ACCURACY

SGT 3193.4 SGR 648.2 SG3 529.2
 RRT -.9164 RRF .9715 RTF -.9669
 SGB 3258.5 R23 -.1994 R13 .9699
 SG1 3248.5 SG2 255.1 THA 169.40

ORBIT DETERMINATION ACCURACY

ST 1872.3 SR 359.2 SS 2161.7
 CRT -.9996 CRS -.9954 CST .9935
 LSA 2877.7 MSA 162.7 SSA 7.1
 EL1 1906.4 EL2 10.2 ALF 169.15

LAUNCH DATE NOV 23 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 388.972
 RL 147.71 LAL .00 LOL 60.77 VL 27.497 GAL 6.77 AZL 83.85 MCA 162.42 SMA 127.50 ECC .19665 INC 6.1546 V1 30.163
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.570 GAP -7.31 AZP 95.87 TAL 149.94 TAP 312.36 RCA 102.43 APO 152.58 V2 35.013
 RC 47.558 GL 32.06 GP -19.75 ZAL 49.62 ZAP 30.46 ETS 39.64 ZAE 151.75 ETE 289.54 ZAC 117.17 ETC 175.74 CLP -23.67

PLANETOCENTRIC CONIC

C3 30.415 VHL 5.515 DLA 37.28 RAL 4.52 RAD 6568.2 VEL 12.320 PTH 2.22 VHP 5.823 DPA -12.99 RAP 27.28 ECC 1.5006
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.66 22 28 43 4203.97 -21.95 184.88 242.57 59.08 23 38 47 3604.0 -25.88 177.67
 115.34 4 31 6 3074.60 -21.94 99.73 242.56 59.07 5 22 21 2474.6 -25.87 92.52
 64.66 22 28 43 4203.97 -21.95 184.88 242.57 59.08 23 38 47 3604.0 -25.88 177.67
 115.34 4 31 6 3074.60 -21.94 99.73 242.56 59.07 5 22 21 2474.6 -25.87 92.52
 64.66 22 28 43 4203.97 -21.95 184.88 242.57 59.08 23 38 47 3604.0 -25.88 177.67
 115.34 4 31 6 3074.60 -21.94 99.73 242.56 59.07 5 22 21 2474.6 -25.87 92.52

DIFFERENTIAL CORRECTIONS

TDE-1.7065 TRA-2.0466 TC3 -.0090 BAU .1054
 RDE .4909 RRA .4793 RC3 -.2590 FAU .03944
 FDE 4.2142 FRA 3.6234 FC3 -1.1226 BSP 10851
 BDE 1.7757 BRA 2.1020 BC3 .2591 FSP -1682

MID-COURSE EXECUTION ACCURACY

SGT 3207.0 SGR 856.4 SG3 567.1
 RRT -.9372 RRF .9869 RTF -.9688
 SGB 3319.3 R23 -.2049 R13 .9735
 SG1 3306.7 SG2 289.8 THA 165.84

ORBIT DETERMINATION ACCURACY

ST 1945.7 SR 543.5 SS 2315.6
 CRT -.9973 CRS -.9992 CST .9938
 LSA 3068.5 MSA 166.0 SSA 5.7
 EL1 2019.8 EL2 38.5 ALF 164.43

LAUNCH DATE NOV 23 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.549 GAL 6.59 AZL 83.17 MCA 165.62 SMA 127.86 ECC .19221 INC 6.8346 V1 30.163
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.597 GAP -6.75 AZP 96.62 TAL 149.96 TAP 315.57 RCA 103.28 APO 152.44 V2 35.000
 RC 48.883 GL 35.33 GP -24.86 ZAL 51.70 ZAP 35.29 ETS 43.04 ZAE 146.94 ETE 289.88 ZAC 118.49 ETC 178.90 CLP -25.90

PLANETOCENTRIC CONIC

C3 31.718 VHL 5.632 DLA 39.99 RAL 2.13 RAD 6568.3 VEL 12.373 PTH 2.23 VHP 5.702 DPA -17.26 RAP 30.34 ECC 1.5220
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.49 21 58 54 4272.88 -22.97 191.29 241.80 56.32 23 10 6 3672.9 -27.23 184.22
 119.51 4 41 51 3026.76 -22.95 96.45 241.78 56.31 5 32 17 2426.8 -27.21 89.39
 60.49 21 58 54 4272.88 -22.97 191.29 241.80 56.32 23 10 6 3672.9 -27.23 184.22
 119.51 4 41 51 3026.76 -22.95 96.45 241.78 56.31 5 32 17 2426.8 -27.21 89.39
 60.49 21 58 54 4272.88 -22.97 191.29 241.80 56.32 23 10 6 3672.9 -27.23 184.22
 119.51 4 41 51 3026.76 -22.95 96.45 241.78 56.31 5 32 17 2426.8 -27.21 89.39

DIFFERENTIAL CORRECTIONS

TDE-1.8497 TRA-1.9629 TC3 -.0022 BAU .1218
 RDE .7641 RRA .5955 RC3 -.2873 FAU .03886
 FDE 4.7312 FRA 3.5590 FC3 -1.0607 BSP 11135
 BDE 2.0014 BRA 2.0512 BC3 .2873 FSP -1764

MID-COURSE EXECUTION ACCURACY

SGT 3214.8 SGR 1155.1 SG3 591.9
 RRT -.9487 RRF .9940 RTF -.9705
 SGB 3416.0 R23 -.1976 R13 .9780
 SG1 3398.5 SG2 345.4 THA 160.97

ORBIT DETERMINATION ACCURACY

ST 2037.8 SR 812.8 SS 2472.0
 CRT -.9952 CRS -.9999 CST .9942
 LSA 3300.7 MSA 171.2 SSA 4.3
 EL1 2192.7 EL2 74.2 ALF 158.32

LAUNCH DATE NOV 23 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.597 GAL 6.42 AZL 82.11 MCA 168.81 SMA 128.19 ECC .18816 INC 7.8921 V1 30.163
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.619 GAP -6.20 AZP 97.74 TAL 149.98 TAP 318.79 RCA 104.07 APO 152.30 V2 34.987
 RC 50.327 GL 39.65 GP -32.26 ZAL 54.64 ZAP 41.72 ETS 47.47 ZAE 139.97 ETE 289.45 ZAC 119.56 ETC 183.76 CLP -28.02

PLANETOCENTRIC CONIC

C3 34.820 VHL 5.901 DLA 43.45 RAL 358.58 RAD 6568.4 VEL 12.498 PTH 2.26 VHP 5.756 DPA -23.54 RAP 34.64 ECC 1.5730
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.55 21 23 34 4354.61 -23.71 198.98 240.97 52.46 22 36 9 3754.6 -28.42 192.19
 124.45 4 48 50 2992.08 -23.70 94.02 240.96 52.45 5 38 42 2392.1 -28.40 87.23
 55.55 21 23 34 4354.61 -23.71 198.98 240.97 52.46 22 36 9 3754.6 -28.42 192.19
 124.45 4 48 50 2992.08 -23.70 94.02 240.96 52.45 5 38 42 2392.1 -28.40 87.23
 55.55 21 23 34 4354.61 -23.71 198.98 240.97 52.46 22 36 9 3754.6 -28.42 192.19
 124.45 4 48 50 2992.08 -23.70 94.02 240.96 52.45 5 38 42 2392.1 -28.40 87.23

DIFFERENTIAL CORRECTIONS

TDE-2.0992 TRA-1.8692 TC3 -.0071 BAU .1425
 RDE 1.2160 RRA .7354 RC3 -.3060 FAU .03494
 FDE 5.2217 FRA 3.2441 FC3 -.8688 BSP 11642
 BDE 2.4259 BRA 2.0087 BC3 .3061 FSP -1755

MID-COURSE EXECUTION ACCURACY

SGT 3225.7 SGR 1578.6 SG3 583.3
 RRT -.9550 RRF .9968 RTF -.9722
 SGB 3591.3 R23 -.1754 R13 .9837
 SG1 3566.2 SG2 423.7 THA 154.57

ORBIT DETERMINATION ACCURACY

ST 2171.9 SR 1217.1 SS 2603.2
 CRT -.9942 CRS -1.0000 CST .9949
 LSA 3597.7 MSA 177.9 SSA 2.9
 EL1 2487.0 EL2 114.6 ALF 150.81

LAUNCH DATE NOV 23 1968

FLIGHT TIME 158.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.640 GAL 6.26 AZL 80.22 MCA 171.99 SMA 128.48 ECC .18450 INC 9.7756 V1 30.163
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.639 GAP -5.66 AZP 99.68 TAL 150.01 TAP 322.00 RCA 104.78 APO 152.19 V2 34.974
 RC 51.881 GL 45.71 GP -43.37 ZAL 59.10 ZAP 50.77 ETS 53.42 ZAE 129.37 ETE 289.38 ZAC 119.91 ETC 191.76 CLP -29.53

PLANETOCENTRIC CONIC

C3 42.478 VHL 6.518 DLA 47.99 RAL 352.64 RAD 6568.6 VEL 12.800 PTH 2.33 VHP 6.241 DPA -32.83 RAP 41.73 ECC 1.6991
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.48 20 37 26 4462.68 -23.44 208.79 239.68 46.84 21 51 49 3862.7 -28.77 202.56
 130.52 4 47 39 2984.42 -23.42 93.05 239.66 46.83 5 37 24 2384.4 -28.75 86.82
 49.48 20 37 26 4462.68 -23.44 208.79 239.68 46.84 21 51 49 3862.7 -28.77 202.56
 130.52 4 47 39 2984.42 -23.42 93.05 239.66 46.83 5 37 24 2384.4 -28.75 86.82
 49.48 20 37 26 4462.68 -23.44 208.79 239.68 46.84 21 51 49 3862.7 -28.77 202.56
 130.52 4 47 39 2984.42 -23.42 93.05 239.66 46.83 5 37 24 2384.4 -28.75 86.82

DIFFERENTIAL CORRECTIONS

TDE-2.6358 TRA-1.7687 TC3 -.0320 BAU .1596
 RDE 2.0329 RRA .8527 RC3 -.2791 FAU .02449
 FDE 5.4418 FRA 2.4973 FC3 -.4991 BSP 12517
 BDE 3.3287 BRA 1.9635 BC3 .2810 FSP -1535

MID-COURSE EXECUTION ACCURACY

SGT 3281.5 SGR 2140.3 SG3 504.3
 RRT -.9580 RRF .9974 RTF -.9752
 SGB 3917.8 R23 -.1364 R13 .9904
 SG1 3883.3 SG2 518.9 THA 147.35

ORBIT DETERMINATION ACCURACY

ST 2419.7 SR 1818.5 SS 2633.6
 CRT -.9943 CRS -.9999 CST .9960
 LSA 4007.9 MSA 185.0 SSA 1.7
 EL1 3022.9 EL2 154.8 ALF 143.12

LAUNCH DATE NOV 23 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.679 GAL 6.13 AZL 75.90 MCA 175.15 SMA 128.75 ECC .18124 INC14.0984 V1 30.163
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.656 GAP -5.15 AZP 104.05 TAL 150.03 TAP 325.17 RCA 105.42 APO 152.09 V2 34.961
 RC 53.536 GL 54.52 GP -60.11 ZAL 66.47 ZAP 63.74 ETS 64.07 ZAE 112.90 ETE 294.40 ZAC 118.54 ETC 207.58 CLP -27.40

PLANETOCENTRIC CONIC

C3 67.783 VHL 8.233 DLA 53.50 RAL 341.06 RAD 6569.3 VEL 13.753 PTH 2.51 VHP 8.156 DPA -45.58 RAP 56.44 ECC 2.1155
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.51 19 29 8 4629.47 -19.49 221.44 235.89 39.12 20 46 18 4029.5 -25.60 216.27
 137.49 4 23 32 3048.11 -19.47 95.05 235.88 39.12 5 14 20 2448.1 -25.59 89.88
 42.51 19 29 8 4629.47 -19.49 221.44 235.89 39.12 20 46 18 4029.5 -25.60 216.27
 137.49 4 23 32 3048.11 -19.47 95.05 235.88 39.12 5 14 20 2448.1 -25.59 89.88
 42.51 19 29 8 4629.47 -19.49 221.44 235.89 39.12 20 46 18 4029.5 -25.60 216.27
 137.49 4 23 32 3048.11 -19.47 95.05 235.88 39.12 5 14 20 2448.1 -25.59 89.88

DIFFERENTIAL CORRECTIONS

TDE-4.3557 TRA-1.6725 TC3 -.0961 BAU .1474
 RDE 3.4984 RRA .7662 RC3 -.1312 FAU .00453
 FDE 4.8320 FRA 1.2539 FC3 -.0579 BSP 13716
 BDE 5.5867 BRA 1.8041 BC3 .1626 FSP -976

MID-COURSE EXECUTION ACCURACY

SGT 3611.4 SGR 2569.0 SG3 317.1
 RRT -.9586 RRF .9936 RTF -.9845
 SGB 4432.0 R23 -.0801 R13 .9967
 SG1 4391.0 SG2 601.7 THA 144.95

ORBIT DETERMINATION ACCURACY

ST 3087.6 SR 2446.2 SS 2389.9
 CRT -.9956 CRS -.9995 CST .9981
 LSA 4603.6 MSA 187.6 SSA .8
 EL1 3935.0 EL2 180.6 ALF 141.64

LAUNCH DATE NOV 23 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.714 GAL 6.04 AZL 56.59 MCA 178.18 SMA 128.99 ECC .17859 INC33.4101 VI 30.163
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.669 GAP -4.68 AZP 123.40 TAL 149.95 TAP 328.13 RCA 105.96 APO 152.03 V2 34.948
 RC 55.282 GL 62.63 GP -77.65 ZAL 79.05 ZAP 80.16 ETS 141.05 ZAE 86.07 ETE 7.75 ZAC 116.34 ETC 295.13 CLP 36.97

PLANETOCENTRIC CONIC

C3 292.028 VHL 17.089 DLA 53.07 RAL 319.68 RAD 6571.7 VEL 20.331 PTH 3.16 VMP 19.306 DPA -53.20 RAP 97.59 ECC 5.8060
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.04 18 5 27 4894.67 -4.97 231.36 225.95 37.09 19 27 2 4294.7 -11.33 226.87
 136.96 2 56 40 3320.28 -4.96 105.74 225.93 37.09 3 52 1 2720.3 -11.31 101.24
 43.04 18 5 27 4894.67 -4.97 231.36 225.95 37.09 19 27 2 4294.7 -11.33 226.87
 136.96 2 56 40 3320.28 -4.96 105.74 225.93 37.09 3 52 1 2720.3 -11.31 101.24
 43.04 18 5 27 4894.67 -4.97 231.36 225.95 37.09 19 27 2 4294.7 -11.33 226.87
 136.96 2 56 40 3320.28 -4.96 105.74 225.93 37.09 3 52 1 2720.3 -11.31 101.24

DIFFERENTIAL CORRECTIONS

TDE -9.9657 TRA .0034 TC3 -.2166 BAU 1.1150
 RDE -9.4530 RRA -1.3097 RC3 -.1862 FAU-.02661
 FDE 3.5735 FRA -1.724 FC3 .0789 BSP 15657
 BOE13.7359 BRA 1.3097 BC3 .2856 FSP -368

DISTANCE 421.802

MID-COURSE EXECUTION ACCURACY

SGT 3422.4 SGR 3314.2 SG3 106.4
 RRT .9751 RRF -.9894 RTF -.9969
 SGB 4764.1 R23 .0301 R13 -.9995
 SG1 4734.3 SG2 531.7 TMA 44.06

ORBIT DETERMINATION ACCURACY

ST 3341.4 SR 3177.1 SS 1999.1
 CRT .9976 CRS .9990 CST .9997
 LSA 5022.9 MSA 160.2 SSA .9
 EL1 4608.0 EL2 159.4 ALF 43.55

LAUNCH DATE NOV 23 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.746 GAL 5.85 AZL 116.20 MCA 181.86 SMA 129.21 ECC .17491 INC26.2005 VI 30.163
 RP 108.47 LAP .82 LOP 242.44 VP 37.681 GAP -4.04 AZP 63.81 TAL 150.35 TAP 332.21 RCA 106.61 APO 151.81 V2 34.936
 RC 57.109 GL -62.87 GP 78.90 ZAL 76.71 ZAP 81.23 ETS 249.67 ZAE 94.79 ETE 18.16 ZAC 86.53 ETC 93.61 CLP 37.61

PLANETOCENTRIC CONIC

C3 187.543 VHL 13.695 DLA -54.41 RAL 38.41 RAD 6571.0 VEL 17.575 PTH 2.97 VMP 18.853 DPA 76.63 RAP 275.73 ECC 4.0865
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.38 11 16 31 2199.08 8.49 61.46 302.27 143.96 11 53 10 1599.1 14.92 57.02
 138.62 20 13 44 603.06 8.50 293.48 302.29 143.96 20 23 47 3.1 14.93 289.03
 41.38 11 16 31 2199.08 8.49 61.46 302.27 143.96 11 53 10 1599.1 14.92 57.02
 138.62 20 13 44 603.06 8.50 293.48 302.29 143.96 20 23 47 3.1 14.93 289.03
 41.38 11 16 31 2199.08 8.49 61.46 302.27 143.96 11 53 10 1599.1 14.92 57.02
 138.62 20 13 44 603.06 8.50 293.48 302.29 143.96 20 23 47 3.1 14.93 289.03

DIFFERENTIAL CORRECTIONS

TDE -.9324 TRA -6.6492 TC3 -.2487 BAU .6460
 RDE 1.4823 RRA .9472 RC3 .0672 FAU-.01424
 FDE .2630 FRA 1.8094 FC3 .0657 BSP 13965
 BOE 1.7511 BRA 6.7163 BC3 .2577 FSP -331

MID-COURSE EXECUTION ACCURACY

SGT 4844.3 SGR 939.3 SG3 113.9
 RRT -.7962 RRF .7976 RTF -1.0000
 SGB 4934.5 R23 .0156 R13 .9999
 SG1 4902.5 SG2 561.6 TMA 171.11

ORBIT DETERMINATION ACCURACY

ST 1486.3 SR 653.0 SS 660.5
 CRT -.5513 CRS -.5590 CST 1.0000
 LSA 1670.6 MSA 529.9 SSA .3
 EL1 1535.4 EL2 527.4 ALF 164.51

LAUNCH DATE NOV 23 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.773 GAL 5.76 AZL 97.48 MCA 184.89 SMA 129.40 ECC .17290 INC 7.4743 VI 30.163
 RP 108.51 LAP .64 LOP 245.62 VP 37.690 GAP -3.59 AZP 82.55 TAL 150.26 TAP 335.15 RCA 107.03 APO 151.78 V2 34.923
 RC 59.010 GL -40.78 GP 65.00 ZAL 55.47 ZAP 70.60 ETS 315.77 ZAE 118.22 ETE 77.09 ZAC 89.68 ETC 150.09 CLP -38.20

PLANETOCENTRIC CONIC

C3 30.289 VHL 5.504 DLA -30.00 RAL 34.36 RAD 6568.2 VEL 12.315 PTH 2.22 VMP 7.765 DPA 62.27 RAP 336.51 ECC 1.4985
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.65 14 4 53 1265.34 17.99 351.01 270.12 114.42 14 25 58 665.3 21.14 343.62
 100.35 16 53 3 723.09 18.00 311.12 270.13 114.41 17 5 6 123.1 21.15 303.73
 79.65 14 4 53 1265.34 17.99 351.01 270.12 114.42 14 25 58 665.3 21.14 343.62
 100.35 16 53 3 723.09 18.00 311.12 270.13 114.41 17 5 6 123.1 21.15 303.73
 110.00 15 51 48 916.72 6.17 318.97 263.43 123.69 16 7 5 316.7 10.56 312.62
 110.00 20 5 18 5407.75 30.69 248.45 275.22 105.85 21 35 25 4807.7 32.56 239.72

DIFFERENTIAL CORRECTIONS

TDE -.7959 TRA -2.0837 TC3 .0028 BAU .2522
 RDE -.4086 RRA -3.2142 RC3 .6229 FAU .02189
 FDE .5663 FRA 3.2787 FC3 -.6258 BSP 14792
 BOE .8946 BRA 3.8306 BC3 .6229 FSP -1092

MID-COURSE EXECUTION ACCURACY

SGT 2638.4 SGR 3947.3 SG3 349.4
 RRT .9634 RRF -.9993 RTF -.9712
 SGB 4747.9 R23 -.0508 R13 -.9985
 SG1 4710.8 SG2 592.5 TMA 56.62

ORBIT DETERMINATION ACCURACY

ST 1118.6 SR 1235.0 SS 886.5
 CRT .8857 CRS .9939 CST .9316
 LSA 1843.6 MSA 404.4 SSA 2.0
 EL1 1618.5 EL2 396.2 ALF 48.19

LAUNCH DATE NOV 23 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.798 GAL 5.69 AZL 93.21 MCA 188.04 SMA 129.58 ECC .17095 INC 3.2132 VI 30.163
 RP 108.55 LAP .45 LOP 248.80 VP 37.697 GAP -3.12 AZP 86.82 TAL 150.25 TAP 338.29 RCA 107.42 APO 151.73 V2 34.911
 RC 60.976 GL -21.19 GP 51.93 ZAL 43.99 ZAP 65.46 ETS 327.30 ZAE 131.38 ETE 81.38 ZAC 93.79 ETC 154.01 CLP -47.66

PLANETOCENTRIC CONIC

C3 18.399 VHL 4.289 DLA -11.36 RAL 27.60 RAD 6567.7 VEL 11.823 PTH 2.09 VMP 5.451 DPA 51.04 RAP 350.24 ECC 1.3028
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 30 19 1834.17 -8.89 18.67 246.38 116.99 11 0 53 1234.2 -5.20 11.94
 90.00 19 33 38 5199.23 26.11 233.20 251.16 78.64 21 0 17 4599.2 24.28 225.01
 100.00 11 45 56 1590.22 -9.94 .18 245.82 118.34 12 12 26 990.2 -6.08 353.52
 100.00 21 0 42 4918.41 27.27 212.27 250.88 77.27 22 22 41 4318.4 25.25 204.05
 110.00 12 41 12 1417.12 -12.70 345.41 244.19 122.01 13 4 50 817.1 -8.38 338.98
 110.00 22 21 55 4664.27 30.36 192.05 249.97 73.47 23 39 39 4064.3 27.79 183.79

DIFFERENTIAL CORRECTIONS

TDE -.5675 TRA -1.4787 TC3 .0233 BAU .2782
 RDE -.5482 RRA -2.6041 RC3 1.1306 FAU .04946
 FDE 1.2608 FRA 5.1722 FC3 -2.3270 BSP 13829
 BOE .7891 BRA 2.9946 BC3 1.1308 FSP -2040

MID-COURSE EXECUTION ACCURACY

SGT 2152.6 SGR 3750.3 SG3 649.3
 RRT .9566 RRF -.9995 RTF -.9589
 SGB 4324.2 R23 -.0618 R13 -.9977
 SG1 4289.3 SG2 548.7 TMA 60.71

ORBIT DETERMINATION ACCURACY

ST 969.5 SR 1292.3 SS 1273.3
 CRT .9565 CRS .9975 CST .9746
 LSA 2044.0 MSA 231.1 SSA 4.6
 EL1 1599.3 EL2 228.4 ALF 53.47

LAUNCH DATE NOV 23 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.819 GAL 5.62 AZL 91.35 MCA 191.21 SMA 129.72 ECC .16926 INC 1.3471 VI 30.163
 RP 108.58 LAP .26 LOP 251.98 VP 37.702 GAP -2.66 AZP 88.68 TAL 150.24 TAP 341.45 RCA 107.77 APO 151.68 V2 34.900
 RC 63.000 GL -9.38 GP 43.30 ZAL 40.02 ZAP 64.33 ETS 335.44 ZAE 139.91 ETE 84.18 ZAC 96.21 ETC 156.12 CLP -53.48

PLANETOCENTRIC CONIC

C3 15.941 VHL 3.993 DLA -.26 RAL 23.53 RAD 6567.6 VEL 11.719 PTH 2.06 VHP 4.505 DPA 43.06 RAP 355.72 ECC 1.2623
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 48 40 2153.53 -18.04 37.65 241.21 112.20 9 24 34 1553.5 -14.87 30.41
 90.00 20 42 51 4813.68 18.45 207.61 241.31 68.13 22 3 5 4213.7 15.32 200.33
 100.00 10 9 53 1891.54 -19.00 17.96 240.78 113.52 10 41 25 1291.5 -15.66 10.76
 100.00 22 4 19 4550.91 19.41 187.86 240.89 66.81 23 20 10 3950.9 16.11 180.63
 110.00 11 17 52 1678.79 -21.56 .52 239.49 117.19 11 45 50 1078.8 -17.74 353.47
 110.00 23 12 50 4336.42 21.98 170.30 239.61 63.14 24 25 6 3736.4 18.20 163.21

DIFFERENTIAL CORRECTIONS

TDE -.4826 TRA-1.1617 TC3 -.0469 BAU .2607
 RDE -.6371 RRA-2.2239 RC3 1.2225 FAU .07170
 FDE 2.2248 FRA 6.8084 FC3-3.8943 BSP 12582
 BOE .7992 BRA 2.5090 BC3 1.2234 FSP -2898

MID-COURSE EXECUTION ACCURACY

SGT 1805.6 SGR 3460.4 SG3 927.9
 RRT .9470 RRF -.9993 RTF -.9480
 SGB 3903.1 R23 -.0625 R13 -.9974
 SG1 3868.5 SG2 518.7 TMA 63.18

ORBIT DETERMINATION ACCURACY

ST 854.3 SR 1324.2 SS 1687.5
 CRT .9830 CRS .9978 CST .9929
 LSA 2305.0 MSA 132.8 SSA 8.8
 EL1 1570.3 EL2 132.2 ALF 57.36

LAUNCH DATE NOV 23 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.837 GAL 5.57 AZL 90.30 MCA 194.38 SMA 129.85 ECC .16784 INC .2955 VI 30.163
 RP 108.62 LAP .07 LOP 255.15 VP 37.705 GAP -2.20 AZP 89.71 TAL 150.22 TAP 344.60 RCA 108.06 APO 151.65 V2 34.889
 RC 65.076 GL -2.11 GP 37.35 ZAL 39.03 ZAP 65.68 ETS 341.87 ZAE 145.72 ETE 88.04 ZAC 97.27 ETC 157.91 CLP -58.79

PLANETOCENTRIC CONIC

C3 15.261 VHL 3.907 DLA 6.54 RAL 20.93 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 3.987 DPA 37.16 RAP 358.07 ECC 1.2512
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 47 23 2355.73 -22.72 30.63 239.66 107.36 8 26 39 1755.7 -20.14 42.91
 90.00 21 23 22 4591.80 12.33 194.20 237.14 64.31 22 39 54 3991.8 8.77 187.33
 100.00 9 11 50 2083.33 -23.73 30.24 239.31 108.73 9 46 34 1483.3 -20.95 22.54
 100.00 22 41 36 4339.43 13.28 175.17 236.66 62.97 23 53 56 3739.4 9.55 168.36
 110.00 10 27 12 1847.47 -26.41 11.22 238.19 112.54 10 58 0 1247.5 -23.12 3.60
 110.00 23 42 44 4148.06 15.78 159.22 235.23 59.28 24 51 52 3548.1 11.59 152.62

DIFFERENTIAL CORRECTIONS

TDE -.3993 TRA -.8915 TC3 -.1565 BAU .2431
 RDE -.6776 RRA-1.9665 RC3 1.1813 FAU .08973
 FDE 3.2375 FRA 8.1687 FC3-5.0903 BSP 11375
 BOE .7866 BRA 2.1592 BC3 1.1916 FSP -3648

MID-COURSE EXECUTION ACCURACY

SGT 1445.7 SGR 3204.3 SG3 1171.3
 RRT .9261 RRF -.9990 RTF -.9269
 SGB 3515.3 R23 -.0572 R13 -.9974
 SG1 3479.3 SG2 502.5 TMA 66.81

ORBIT DETERMINATION ACCURACY

ST 706.4 SR 1321.8 SS 2057.0
 CRT .9917 CRS .9977 CST .9980
 LSA 2543.3 MSA 93.3 SSA 13.5
 EL1 1496.5 EL2 80.3 ALF 61.99

LAUNCH DATE NOV 23 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.852 GAL 5.54 AZL 89.62 MCA 197.56 SMA 129.96 ECC .16670 INC .3795 VI 30.163
 RP 108.65 LAP -.11 LOP 258.33 VP 37.706 GAP -1.74 AZP 90.36 TAL 150.17 TAP 347.73 RCA 108.30 APO 151.63 V2 34.878
 RC 67.198 GL 2.71 GP 33.03 ZAL 39.03 ZAP 68.55 ETS 347.03 ZAE 149.76 ETE 93.57 ZAC 97.35 ETC 159.53 CLP -64.14

PLANETOCENTRIC CONIC

C3 15.091 VHL 3.885 DLA 11.02 RAL 19.15 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 3.656 DPA 32.53 RAP 358.84 ECC 1.2484
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 45 2498.23 -25.29 60.28 239.22 103.19 7 46 23 1898.2 -23.22 52.22
 90.00 21 51 46 4444.28 7.84 185.69 235.13 62.70 23 5 50 3844.3 4.12 178.99
 100.00 8 31 37 2218.07 -26.37 39.37 238.92 104.62 9 8 35 1618.1 -24.10 31.31
 100.00 23 7 35 4199.67 8.82 167.18 234.60 61.32 24 17 35 3599.7 4.93 160.56
 110.00 9 52 23 1965.34 -29.23 19.22 237.96 108.57 10 25 8 1365.3 -26.42 11.17
 110.00 0 7 15 4025.17 11.39 152.40 233.06 57.55 1 14 20 3425.2 7.03 146.02

DIFFERENTIAL CORRECTIONS

TDE -.2935 TRA -.6241 TC3 -.2884 BAU .2324
 RDE -.6870 RRA-1.7756 RC3 1.1151 FAU .10500
 FDE 4.2064 FRA 9.2985 FC3-6.0236 BSP 10282
 BOE .7470 BRA 1.8821 BC3 1.1518 FSP -4326

MID-COURSE EXECUTION ACCURACY

SGT 1056.9 SGR 2982.4 SG3 1381.3
 RRT .8713 RRF -.9986 RTF -.8723
 SGB 3164.2 R23 -.0456 R13 -.9976
 SG1 3125.2 SG2 495.0 TMA 72.38

ORBIT DETERMINATION ACCURACY

ST 516.3 SR 1291.4 SS 2365.7
 CRT .9952 CRS .9972 CST .9993
 LSA 2742.9 MSA 86.3 SSA 15.6
 EL1 1390.0 EL2 46.9 ALF 68.28

LAUNCH DATE NOV 23 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.865 GAL 5.51 AZL 89.15 MCA 200.73 SMA 130.05 ECC .16582 INC .8536 VI 30.163
 RP 108.68 LAP -.30 LOP 261.50 VP 37.706 GAP -1.30 AZP 90.80 TAL 150.11 TAP 350.84 RCA 108.49 APO 151.62 V2 34.867
 RC 69.360 GL 6.10 GP 29.71 ZAL 39.31 ZAP 72.40 ETS 351.21 ZAE 152.47 ETE 100.89 ZAC 96.72 ETC 161.01 CLP -69.63

PLANETOCENTRIC CONIC

C3 15.112 VHL 3.887 DLA 14.17 RAL 17.86 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 3.428 DPA 28.67 RAP 358.67 ECC 1.2487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 38 2606.03 -26.74 67.83 239.18 99.67 7 16 4 2006.0 -25.14 59.53
 90.00 22 13 39 4337.10 4.45 179.64 234.12 62.01 23 25 56 3737.1 .67 173.00
 100.00 8 1 31 2319.40 -27.91 46.51 238.94 101.17 8 40 10 1719.4 -26.08 38.18
 100.00 23 27 27 4098.96 5.49 161.56 233.55 60.57 24 35 46 3499.0 1.53 155.02
 110.00 9 26 38 2053.06 -30.97 25.46 238.11 105.25 10 0 51 1453.1 -28.57 17.08
 110.00 0 22 45 3938.07 8.17 147.71 231.90 56.69 1 28 23 3338.1 3.73 141.43

DIFFERENTIAL CORRECTIONS

TDE -.1630 TRA -.3495 TC3 -.4434 BAU .2284
 RDE -.6794 RRA-1.6253 RC3 1.0401 FAU .11719
 FDE 5.1122 FRA10.2452 FC3-6.7134 BSP 9209
 BOE .6987 BRA 1.6625 BC3 1.1307 FSP -4898

MID-COURSE EXECUTION ACCURACY

SGT 677.4 SGR 2785.9 SG3 1561.4
 RRT .6753 RRF -.9980 RTF -.6768
 SGB 2867.1 R23 -.0257 R13 -.9977
 SG1 2824.4 SG2 492.8 TMA 80.38

ORBIT DETERMINATION ACCURACY

ST 288.5 SR 1246.1 SS 2626.0
 CRT .9971 CRS .9966 CST .9981
 LSA 2919.4 MSA 92.5 SSA 15.5
 EL1 1278.9 EL2 21.2 ALF 77.00

LAUNCH DATE NOV 23 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.876 GAL 5.50 AZL 88.79 MCA 203.90 SMA 130.13 ECC .16521 INC 1.2067 V1 30.163
 RP 108.72 LAP -.49 LOP 264.67 VP 37.704 GAP -.86 AZP 91.10 TAL 150.02 TAP 353.92 RCA 108.63 APO 151.62 V2 34.858
 RC 71.560 GL 8.61 GP 27.03 ZAL 39.65 ZAP 76.93 ETS 354.65 ZAE 154.01 ETE 109.74 ZAC 95.58 ETC 162.36 CLP -75.29

PLANETOCENTRIC CONIC

C3 15.224 VHL 3.902 DLA 16.51 RAL 16.92 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 3.266 DPA 25.28 RAP 357.89 ECC 1.2505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 12 2691.93 -27.58 73.98 239.31 96.70 6 52 4 2091.9 -26.36 65.52
 90.00 22 31 33 4254.51 1.80 175.02 233.64 61.74 23 42 27 3654.5 -2.00 168.39
 100.00 7 37 52 2399.58 -28.83 52.29 239.12 98.26 8 17 51 1799.6 -27.39 43.78
 100.00 23 43 34 4022.08 2.90 157.32 233.02 60.24 24 50 36 3422.1 -1.08 150.80
 110.00 9 6 42 2121.60 -32.09 30.49 238.43 102.47 9 42 4 1521.6 -30.04 21.87
 110.00 0 35 9 3872.83 5.72 144.25 231.28 56.24 1 39 42 3272.8 1.24 138.03

DIFFERENTIAL CORRECTIONS

TDE -.0072 TRA -.0636 TC3 -.6105 BAU .2335
 RDE -.6556 RRA-1.4941 RC3 .9713 FAU .12745
 FDE 5.8989 FRA10.9817 FC3-7.2479 BSP 8334
 BDE .6556 BRA 1.4955 BC3 1.1472 FSP -5407

MID-COURSE EXECUTION ACCURACY

SGT 486.4 SGR 2595.8 SG3 1706.1
 RRT -.1013 RRF -.9972 RTF .1004
 SGB 2641.0 R23 .0043 R13 -.9972
 SG1 2596.3 SG2 483.8 THA 91.13

ORBIT DETERMINATION ACCURACY

ST 34.2 SR 1182.6 SS 2829.1
 CRT .7389 CRS .9958 CST .6893
 LSA 3064.8 MSA 102.2 SSA 14.9
 EL1 1182.9 EL2 23.0 ALF 88.78

LAUNCH DATE NOV 23 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.884 GAL 5.51 AZL 88.52 MCA 207.07 SMA 130.18 ECC .16485 INC 1.4809 V1 30.163
 RP 108.74 LAP -.67 LOP 267.84 VP 37.702 GAP -.43 AZP 91.32 TAL 149.90 TAP 356.97 RCA 108.72 APO 151.64 V2 34.848
 RC 73.792 GL 10.54 GP 24.76 ZAL 39.96 ZAP 81.90 ETS 357.51 ZAE 154.46 ETE 119.47 ZAC 94.07 ETC 163.57 CLP -81.07

PLANETOCENTRIC CONIC

C3 15.392 VHL 3.923 DLA 18.32 RAL 16.22 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 3.154 DPA 22.20 RAP 356.73 ECC 1.2533
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 46 21 2763.15 -28.04 79.14 239.54 94.15 6 32 24 2163.1 -27.17 70.58
 90.00 22 46 40 4188.22 -.34 171.32 233.49 61.68 23 56 36 3588.2 -4.12 164.69
 100.00 7 18 39 2465.52 -29.38 57.11 239.41 95.78 7 59 44 1865.5 -28.27 48.49
 100.00 0 1 7 3961.08 .84 153.97 232.83 60.12 1 7 8 3361.1 -3.15 147.45
 110.00 8 50 47 2177.25 -32.83 34.66 238.84 100.11 9 27 4 1577.3 -31.09 25.87
 110.00 0 45 28 3822.12 3.79 141.59 230.99 56.00 1 49 11 3222.1 -.70 135.38

DIFFERENTIAL CORRECTIONS

TDE .1695 TRA .2306 TC3 -.7880 BAU .2465
 RDE -.6204 RRA-1.3749 RC3 .9022 FAU .13506
 FDE 6.5525 FRA11.5106 FC3-7.5967 BSP 7695
 BDE .6431 BRA 1.3941 BC3 1.1979 FSP -5814

MID-COURSE EXECUTION ACCURACY

SGT 754.6 SGR 2407.4 SG3 1813.7
 RRT -.7774 RRF -.9962 RTF .7787
 SGB 2522.9 R23 .0399 R13 -.9954
 SG1 2480.4 SG2 460.7 THA 104.19

ORBIT DETERMINATION ACCURACY

ST 270.0 SR 1106.3 SS 2983.3
 CRT -.9779 CRS .9946 CST -.9936
 LSA 3191.3 MSA 112.1 SSA 14.3
 EL1 1137.4 EL2 54.9 ALF 103.46

LAUNCH DATE NOV 23 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.889 GAL 5.53 AZL 88.30 MCA 210.24 SMA 130.23 ECC .16474 INC 1.7014 V1 30.163
 RP 108.77 LAP -.86 LOP 271.00 VP 37.698 GAP -.00 AZP 91.47 TAL 149.76 TAP 360.00 RCA 108.77 APO 151.68 V2 34.839
 RC 76.053 GL 12.04 GP 22.77 ZAL 40.21 ZAP 87.15 ETS 359.90 ZAE 153.89 ETE 129.15 ZAC 92.31 ETC 164.62 CLP -86.91

PLANETOCENTRIC CONIC

C3 15.604 VHL 3.950 DLA 19.75 RAL 15.70 RAD 6567.6 VEL 11.704 PTH 2.06 VHP 3.084 DPA 19.34 RAP 355.32 ECC 1.2568
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 50 2823.98 -28.26 83.58 239.84 91.94 6 15 54 2224.0 -27.69 74.96
 90.00 23 0 11 4133.57 -2.11 168.28 233.57 61.75 24 9 5 3533.6 -5.87 161.61
 100.00 7 2 41 2521.38 -29.69 61.24 239.76 93.63 7 44 42 1921.4 -28.87 52.53
 100.00 0 12 58 3911.40 -.85 151.25 232.87 60.12 1 18 9 3311.4 -4.82 144.71
 110.00 8 37 48 2223.80 -33.33 38.20 239.32 98.07 9 14 51 1623.8 -31.86 29.28
 110.00 0 54 20 3781.74 2.25 139.48 230.93 55.88 1 57 22 3181.7 -2.24 133.27

DIFFERENTIAL CORRECTIONS

TDE .3614 TRA .5270 TC3 -.9669 BAU .2690
 RDE -.5674 RRA-1.2541 RC3 .8528 FAU .14339
 FDE 6.9685 FRA11.7397 FC3-7.9554 BSP 7601
 BDE .6727 BRA 1.3603 BC3 1.2893 FSP -6271

MID-COURSE EXECUTION ACCURACY

SGT 1232.0 SGR 2206.0 SG3 1871.1
 RRT -.9256 RRF -.9947 RTF .9292
 SGB 2526.7 R23 .0653 R13 -.9928
 SG1 2492.8 SG2 412.7 THA 118.18

ORBIT DETERMINATION ACCURACY

ST 578.4 SR 1006.9 SS 3057.8
 CRT -.9839 CRS .9927 CST -.9981
 LSA 3268.5 MSA 122.0 SSA 13.5
 EL1 1157.8 EL2 89.9 ALF 119.67

LAUNCH DATE NOV 23 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.893 GAL 5.56 AZL 88.12 MCA 213.41 SMA 130.25 ECC .16488 INC 1.8837 V1 30.163
 RP 108.80 LAP -.104 LOP 274.17 VP 37.693 GAP .42 AZP 91.57 TAL 149.58 TAP 2.99 RCA 108.78 APO 151.73 V2 34.831
 RC 78.340 GL 13.25 GP 20.97 ZAL 40.39 ZAP 92.54 ETS 1.90 ZAE 152.48 ETE 137.98 ZAC 90.45 ETC 165.49 CLP -92.73

PLANETOCENTRIC CONIC

C3 15.860 VHL 3.982 DLA 20.91 RAL 15.34 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 3.051 DPA 16.65 RAP 353.82 ECC 1.2610
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 54 2877.26 -28.32 87.47 240.21 89.98 6 1 51 2277.3 -28.02 78.82
 90.00 23 12 13 4087.64 -3.58 165.71 233.82 61.89 24 20 21 3487.6 -7.31 159.02
 100.00 6 49 13 2569.89 -29.85 64.83 240.19 91.74 7 32 3 1969.9 -29.29 56.07
 100.00 0 23 31 3870.25 -2.24 148.99 233.08 60.18 1 28 1 3270.2 -6.19 142.43
 110.00 8 27 4 2263.75 -33.67 41.27 239.87 96.28 9 4 48 1663.7 -32.43 32.25
 110.00 1 2 9 3749.15 1.01 137.78 231.05 55.83 2 4 38 3149.2 -3.48 131.57

DIFFERENTIAL CORRECTIONS

TDE .5640 TRA .8252 TC3 -1.1539 BAU .2933
 RDE -.5217 RRA-1.1537 RC3 .7633 FAU .14184
 FDE 7.3603 FRA11.8991 FC3-7.7429 BSP 7618
 BDE .7683 BRA 1.4184 BC3 1.3835 FSP -6290

MID-COURSE EXECUTION ACCURACY

SGT 1765.9 SGR 2022.4 SG3 1904.8
 RRT -.9593 RRF -.9927 RTF .9646
 SGB 2684.9 R23 .0789 R13 -.9905
 SG1 2657.9 SG2 379.4 THA 130.96

ORBIT DETERMINATION ACCURACY

ST 897.0 SR 920.8 SS 3145.3
 CRT -.9841 CRS .9904 CST -.9991
 LSA 3395.3 MSA 129.7 SSA 13.5
 EL1 1280.4 EL2 114.6 ALF 134.24

LAUNCH DATE NOV 23 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 499.280

RL 147.71 LAL .00 LOL 60.77 VL 27.895 GAL 5.61 AZL 87.96 MCA 216.58 SMA 130.27 ECC .16526 INC 2.0376 V1 30.163
 RP 108.82 LAP -1.21 LOP 277.33 VP 37.687 GAP .84 AZP 91.64 TAL 149.37 TAP 5.95 RCA 108.74 APO 151.79 V2 34.824
 RC 80.651 GL 14.22 GP 19.32 ZAL 40.51 ZAP 97.96 ETS 3.57 ZAE 150.45 ETE 145.52 ZAC 88.58 ETC 166.18 CLP -98.43

PLANETOCENTRIC CONIC

C3 16.156 VHL 4.019 OLA 21.87 RAL 15.10 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 3.049 DPA 14.14 RAP 352.32 ECC 1.2659
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 1 1 2924.72 -28.27 90.94 240.65 88.24 5 49 45 2324.7 -28.21 82.28
 90.00 23 23 12 4048.60 -4.83 163.52 234.22 62.06 24 30 40 3448.6 -8.53 156.79
 100.00 6 37 46 2612.71 -29.89 68.02 240.68 90.07 7 21 19 2012.7 -29.56 59.23
 100.00 0 33 3 3835.84 -3.41 147.10 233.44 60.28 1 36 59 3235.8 -7.34 140.51
 110.00 8 18 10 2298.64 -33.90 43.97 240.48 94.70 8 56 28 1698.6 -32.88 34.88
 110.00 1 9 9 3722.68 -.00 136.40 231.31 55.82 2 11 11 3122.7 -4.49 130.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .7707 TRA 1.1158 TC3-1.3289 BAU .3238 SGT 2299.0 SGR 1830.1 SG3 1890.0 ST 1213.4 SR 818.4 SS 3160.1
 RDE -.4628 RRA-1.0504 RC3 .6935 FAU .14084 RRT -.9710 RRF -.9899 RTF .9791 CRT -.9810 CRS .9867 CST -.9994
 FDE 7.5025 FRA11.7793 FC3-7.5472 BSP 8233 SGB 2938.4 R23 .0723 R13 -.9901 LSA 3479.8 MSA 137.5 SSA 13.1
 BOE .8990 BRA 1.5324 BC3 1.4989 FSP -6339 SG1 2918.2 SG2 344.5 THA 141.67 EL1 1457.6 EL2 132.2 ALF 146.19

LAUNCH DATE NOV 23 1968

FLIGHT TIME 188.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 505.563

RL 147.71 LAL .00 LOL 60.77 VL 27.895 GAL 5.67 AZL 87.83 MCA 219.75 SMA 130.27 ECC .16588 INC 2.1702 V1 30.163
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.681 GAP 1.26 AZP 91.67 TAL 149.12 TAP 8.87 RCA 108.66 APO 151.88 V2 34.816
 RC 82.981 GL 15.00 GP 17.78 ZAL 40.55 ZAP 103.28 ETS 4.96 ZAE 148.01 ETE 151.69 ZAC 86.79 ETC 166.71 CLP -103.96

PLANETOCENTRIC CONIC

C3 16.497 VHL 4.062 OLA 22.67 RAL 14.96 RAD 6567.7 VEL 11.742 PTH 2.07 VHP 3.078 DPA 11.81 RAP 350.89 ECC 1.2715
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 50 2967.64 -28.14 94.07 241.16 86.68 5 39 18 2367.6 -28.30 85.41
 90.00 23 33 19 4015.20 -5.89 161.64 234.74 62.25 24 40 14 3415.2 -9.56 154.88
 100.00 6 28 0 2651.10 -29.86 70.87 241.24 88.57 7 12 11 2051.1 -29.74 62.07
 100.00 0 41 46 3806.98 -4.38 145.50 233.91 60.40 1 45 13 3207.0 -8.29 138.90
 110.00 8 10 45 2329.63 -34.04 46.37 241.16 93.28 8 49 35 1729.6 -33.21 37.23
 110.00 1 15 30 3701.20 -.83 135.28 231.70 55.83 2 17 11 3101.2 -5.30 129.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .9772 TRA 1.3973 TC3-1.4898 BAU .3562 SGT 2815.7 SGR 1644.4 SG3 1842.4 ST 1520.6 SR 716.1 SS 3142.3
 RDE -.4017 RRA -.9539 RC3 .6233 FAU .13671 RRT -.9739 RRF -.9860 RTF .9856 CRT -.9754 CRS .9811 CST -.9996
 FDE 7.4961 FRA11.4966 FC3-7.1747 BSP 9151 SGB 3260.7 R23 .0584 R13 -.9906 LSA 3560.6 MSA 144.4 SSA 12.9
 BOE 1.0565 BRA 1.6918 BC3 1.6150 FSP -6248 SG1 3244.5 SG2 324.2 THA 150.04 EL1 1674.7 EL2 143.3 ALF 155.13

LAUNCH DATE NOV 23 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 511.822

RL 147.71 LAL .00 LOL 60.77 VL 27.894 GAL 5.75 AZL 87.71 MCA 222.91 SMA 130.26 ECC .16674 INC 2.2861 V1 30.163
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.674 GAP 1.67 AZP 91.67 TAL 148.85 TAP 11.76 RCA 108.54 APO 151.97 V2 34.810
 RC 85.328 GL 15.63 GP 16.36 ZAL 40.53 ZAP 108.44 ETS 6.11 ZAE 145.37 ETE 156.61 ZAC 85.15 ETC 167.07 CLP -109.25

PLANETOCENTRIC CONIC

C3 16.884 VHL 4.109 OLA 23.34 RAL 14.93 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 3.132 DPA 9.68 RAP 349.61 ECC 1.2779
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 40 7 3006.86 -27.95 96.93 241.74 85.26 5 30 14 2406.9 -28.31 88.28
 90.00 23 42 44 3986.63 -6.80 160.02 235.37 62.44 24 49 11 3386.6 -10.43 153.23
 100.00 6 19 40 2685.88 -29.77 73.45 241.88 87.21 7 4 26 2085.9 -29.84 64.65
 100.00 0 49 48 3782.84 -5.19 144.17 234.49 60.52 1 52 51 3182.8 -9.08 137.54
 110.00 8 4 38 2357.52 -34.13 48.55 241.92 92.00 8 43 55 1757.5 -33.48 39.37
 110.00 1 21 21 3683.96 -1.49 134.38 232.19 55.85 2 22 45 3084.0 -5.96 128.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.1782 TRA 1.6658 TC3-1.6338 BAU .3898 SGT 3301.8 SGR 1468.0 SG3 1766.6 ST 1810.2 SR 615.3 SS 3090.2
 RDE -.3391 RRA -.8637 RC3 .5589 FAU .13099 RRT -.9721 RRF -.9806 RTF .9891 CRT -.9661 CRS .9722 CST -.9997
 FDE 7.3453 FRA11.0706 FC3-6.7168 BSP 10281 SGB 3613.5 R23 .0434 R13 -.9915 LSA 3630.7 MSA 151.0 SSA 12.7
 BOE 1.2261 BRA 1.8764 BC3 1.7267 FSP -6082 SG1 3599.6 SG2 315.8 THA 156.43 EL1 1906.0 EL2 150.9 ALF 161.70

LAUNCH DATE NOV 23 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 518.058

RL 147.71 LAL .00 LOL 60.77 VL 27.891 GAL 5.84 AZL 87.61 MCA 226.08 SMA 130.23 ECC .16784 INC 2.3890 V1 30.163
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.666 GAP 2.09 AZP 91.66 TAL 148.54 TAP 14.61 RCA 108.37 APO 152.09 V2 34.804
 RC 87.691 GL 16.13 GP 15.05 ZAL 40.44 ZAP 113.37 ETS 7.05 ZAE 142.68 ETE 160.50 ZAC 83.73 ETC 167.29 CLP -114.25

PLANETOCENTRIC CONIC

C3 17.321 VHL 4.162 OLA 23.91 RAL 14.98 RAD 6567.7 VEL 11.777 PTH 2.08 VHP 3.212 DPA 7.76 RAP 348.52 ECC 1.2851
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 43 3043.00 -27.72 99.55 242.41 83.97 5 22 26 2443.0 -28.27 90.93
 90.00 23 51 33 3962.29 -7.56 158.64 236.10 62.63 24 57 36 3362.3 -11.17 151.82
 100.00 6 12 36 2717.68 -29.65 75.81 242.60 85.98 6 57 54 2117.7 -29.89 67.01
 100.00 0 57 16 3762.84 -5.86 143.06 235.17 60.63 1 59 59 3162.8 -9.73 136.41
 110.00 7 59 37 2382.90 -34.17 50.53 242.75 90.83 8 39 20 1782.9 -33.68 41.32
 110.00 1 26 45 3670.38 -2.00 133.67 232.78 55.87 2 27 56 3070.4 -6.47 127.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.3713 TRA 1.9209 TC3-1.7575 BAU .4230 SGT 3751.2 SGR 1305.4 SG3 1671.7 ST 2078.2 SR 520.6 SS 3015.3
 RDE -.2777 RRA -.7816 RC3 .4987 FAU .12360 RRT -.9668 RRF -.9730 RTF .9910 CRT -.9509 CRS .9578 CST -.9997
 FDE 7.0918 FRA10.5541 FC3-6.1777 BSP 11494 SGB 3971.9 R23 .0316 R13 -.9922 LSA 3695.6 MSA 157.1 SSA 12.5
 BOE 1.3991 BRA 2.0738 BC3 1.8268 FSP -5834 SG1 3959.3 SG2 316.2 THA 161.28 EL1 2136.7 EL2 156.8 ALF 166.53

LAUNCH DATE NOV 23 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.886 GAL 5.95 AZL 87.52 MCA 229.24 SMA 130.20 ECC .16918 INC 2.4814 V1 30.163
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.658 GAP 2.50 AZP 91.62 TAL 148.20 TAP 17.44 RCA 108.17 APO 152.23 V2 34.799
 RC 90.065 GL 16.53 GP 13.84 ZAL 40.29 ZAP 118.03 ETS 7.82 ZAE 140.05 ETE 163.55 ZAC 82.56 ETC 167.39 CLP-118.94

PLANETOCENTRIC CONIC

C3 17.813 VHL 4.221 DLA 24.40 RAL 15.11 RAD 6567.7 VEL 11.798 PTH 2.09 VHP 3.313 DPA 6.06 RAP 347.64 ECC 1.2932
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 28 3076.50 -27.46 101.96 243.15 82.78 5 15 44 2476.5 -28.17 93.37
 90.00 0 3 45 3941.78 -8.20 157.48 236.92 62.80 1 9 27 3341.8 -11.78 150.63
 100.00 6 6 41 2746.95 -29.49 77.97 243.40 84.85 6 52 28 2146.9 -29.89 69.19
 100.00 1 4 13 3746.56 -6.40 142.16 235.94 60.74 2 6 40 3146.6 -10.25 135.49
 110.00 7 55 35 2406.22 -34.18 52.35 243.66 89.75 8 35 41 1806.2 -33.84 43.12
 110.00 1 31 48 3660.05 -2.40 133.13 233.47 55.89 2 32 48 3060.1 -6.86 126.88

DIFFERENTIAL CORRECTIONS

TDE 1.5551 TRA 2.1633 TC3-1.8585 BAU .4550
 RDE -.2191 RRA -.7083 RC3 .4439 FAU .11513
 FDE 6.7691 FRA 9.9884 FC3-5.5957 BSP 12710
 BOE 1.5705 BRA 2.2764 BC3 1.9107 FSP -5531

MID-COURSE EXECUTION ACCURACY

SGT 4161.4 SGR 1159.2 SG3 1565.8
 RRT -.9579 RRF -.9627 RTF .9921
 SGB 4319.8 R23 .0231 R13 -.9928
 SG1 4307.8 SG2 321.5 THA 164.97

ORBIT DETERMINATION ACCURACY

ST 2322.7 SR 434.7 SS 2924.8
 CRT -.9260 CRS .9343 CST -.9997
 LSA 3756.6 MSA 162.9 SSA 12.4
 EL1 2357.5 EL2 161.7 ALF 170.12

LAUNCH DATE NOV 23 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.880 GAL 6.07 AZL 87.43 MCA 232.40 SMA 130.16 ECC .17077 INC 2.5654 V1 30.163
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.650 GAP 2.91 AZP 91.57 TAL 147.82 TAP 20.22 RCA 107.93 APO 152.39 V2 34.795
 RC 92.449 GL 16.83 GP 12.74 ZAL 40.09 ZAP 122.40 ETS 8.46 ZAE 137.54 ETE 165.95 ZAC 81.65 ETC 167.41 CLP-123.32

PLANETOCENTRIC CONIC

C3 18.364 VHL 4.285 DLA 24.81 RAL 15.31 RAD 6567.7 VEL 11.821 PTH 2.09 VHP 3.434 DPA 4.58 RAP 346.99 ECC 1.3022
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 18 3107.67 -27.17 104.20 243.97 81.70 5 10 6 2507.7 -28.04 95.64
 90.00 0 11 30 3924.83 -8.73 156.51 237.82 62.95 1 16 55 3324.8 -12.29 149.64
 100.00 6 1 47 2774.02 -29.30 79.96 244.28 83.82 6 48 2 2174.0 -29.85 71.20
 100.00 1 10 42 3733.71 -6.83 141.44 236.80 60.83 2 12 56 3133.7 -10.67 134.76
 110.00 7 52 27 2427.83 -34.16 54.04 244.65 88.75 8 32 54 1827.8 -33.96 44.80
 110.00 1 36 33 3652.67 -2.68 132.74 234.24 55.91 2 37 25 3052.7 -7.14 126.49

DIFFERENTIAL CORRECTIONS

TDE 1.7310 TRA 2.3965 TC3-1.9325 BAU .4842
 RDE -.1645 RRA -.6441 RC3 .3930 FAU .10550
 FDE 6.4145 FRA 9.4136 FC3-4.9736 BSP 13835
 BOE 1.7388 BRA 2.4815 BC3 1.9721 FSP -5167

MID-COURSE EXECUTION ACCURACY

SGT 4534.2 SGR 1030.4 SG3 1456.0
 RRT -.9451 RRF -.9488 RTF .9927
 SGB 4649.9 R23 .0174 R13 -.9931
 SG1 4638.2 SG2 329.3 THA 167.82

ORBIT DETERMINATION ACCURACY

ST 2545.7 SR 359.8 SS 2828.2
 CRT -.8853 CRS .8955 CST -.9997
 LSA 3818.4 MSA 168.2 SSA 12.4
 EL1 2565.6 EL2 166.0 ALF 172.84

LAUNCH DATE NOV 23 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.873 GAL 6.21 AZL 87.36 MCA 235.56 SMA 130.11 ECC .17260 INC 2.6426 V1 30.163
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.641 GAP 3.33 AZP 91.49 TAL 147.41 TAP 22.98 RCA 107.65 APO 152.56 V2 34.791
 RC 94.840 GL 17.05 GP 11.74 ZAL 39.84 ZAP 126.48 ETS 8.99 ZAE 135.19 ETE 167.85 ZAC 81.01 ETC 167.37 CLP-127.39

PLANETOCENTRIC CONIC

C3 18.979 VHL 4.357 DLA 25.15 RAL 15.57 RAD 6567.8 VEL 11.847 PTH 2.10 VHP 3.573 DPA 3.31 RAP 346.57 ECC 1.3123
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 10 3136.72 -26.87 106.27 244.87 80.70 5 5 27 2536.7 -27.88 97.75
 90.00 0 18 46 3911.26 -9.14 155.73 238.81 63.08 1 23 57 3311.3 -12.68 148.84
 100.00 5 57 52 2799.15 -29.11 81.80 245.24 82.87 6 44 31 2199.1 -29.79 73.06
 100.00 1 16 45 3724.06 -7.15 140.91 237.74 60.90 2 18 49 3124.1 -10.97 134.21
 110.00 7 50 6 2447.99 -34.12 55.61 245.72 87.82 8 30 54 1848.0 -34.05 46.37
 110.00 1 41 0 3647.99 -2.86 132.50 235.09 55.92 2 41 48 3048.0 -7.31 126.24

DIFFERENTIAL CORRECTIONS

TDE 1.8945 TRA 2.6175 TC3-1.9892 BAU .5125
 RDE -.1130 RRA -.5871 RC3 .3499 FAU .09643
 FDE 6.0283 FRA 8.8323 FC3-4.3986 BSP 14950
 BOE 1.8979 BRA 2.6825 BC3 2.0198 FSP -4821

MID-COURSE EXECUTION ACCURACY

SGT 4865.7 SGR 918.0 SG3 1344.7
 RRT -.9275 RRF -.9304 RTF .9930
 SGB 4951.6 R23 .0133 R13 -.9933
 SG1 4940.0 SG2 338.0 THA 170.03

ORBIT DETERMINATION ACCURACY

ST 2740.9 SR 296.1 SS 2720.9
 CRT -.8167 CRS .8294 CST -.9997
 LSA 3869.6 MSA 173.4 SSA 12.4
 EL1 2751.6 EL2 170.2 ALF 174.94

LAUNCH DATE NOV 23 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.864 GAL 6.37 AZL 87.29 MCA 238.73 SMA 130.05 ECC .17469 INC 2.7141 V1 30.163
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.632 GAP 3.74 AZP 91.41 TAL 146.97 TAP 25.70 RCA 107.33 APO 152.77 V2 34.788
 RC 97.236 GL 17.20 GP 10.84 ZAL 39.53 ZAP 130.27 ETS 9.45 ZAE 133.03 ETE 169.36 ZAC 80.63 ETC 167.29 CLP-131.16

PLANETOCENTRIC CONIC

C3 19.664 VHL 4.434 DLA 25.44 RAL 15.90 RAD 6567.8 VEL 11.876 PTH 2.11 VHP 3.728 DPA 2.25 RAP 346.38 ECC 1.3236
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 9 0 3163.79 -26.55 108.19 245.86 79.78 5 1 44 2563.8 -27.69 99.71
 90.00 0 25 32 3900.97 -9.46 155.14 239.87 63.19 1 30 33 3301.0 -12.99 148.24
 100.00 5 54 51 2822.54 -28.90 83.51 246.29 81.99 6 41 53 2222.5 -29.70 74.80
 100.00 1 22 22 3717.45 -7.37 140.54 238.75 60.95 2 24 20 3117.4 -11.19 133.83
 110.00 7 48 31 2466.92 -34.06 57.09 246.87 86.95 8 29 37 1866.9 -34.11 47.84
 110.00 1 45 12 3645.83 -2.94 132.39 236.02 55.93 2 45 58 3045.8 -7.39 126.13

DIFFERENTIAL CORRECTIONS

TDE 2.0487 TRA 2.8310 TC3-2.0249 BAU .5386
 RDE -.0653 RRA -.5375 RC3 .3118 FAU .08749
 FDE 5.6410 FRA 8.2731 FC3-3.8517 BSP 15980
 BOE 2.0497 BRA 2.8816 BC3 2.0488 FSP -4471

MID-COURSE EXECUTION ACCURACY

SGT 5161.3 SGR 821.6 SG3 1236.8
 RRT -.9044 RRF -.9067 RTF .9931
 SGB 5226.3 R23 .0103 R13 -.9933
 SG1 5214.8 SG2 347.0 THA 171.77

ORBIT DETERMINATION ACCURACY

ST 2913.1 SR 245.8 SS 2611.8
 CRT -.7042 CRS .7202 CST -.9997
 LSA 3916.2 MSA 178.2 SSA 12.4
 EL1 2918.3 EL2 174.2 ALF 176.59

LAUNCH DATE NOV 23 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 548.867

RL 147.71 LAL .00 LOL 60.77 VL 27.855 GAL 6.54 AZL 87.22 MCA 241.89 SMA 129.98 ECC .17704 INC 2.7809 V1 30.163
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.623 GAP 4.17 AZP 91.31 TAL 146.50 TAP 28.39 RCA 106.97 APO 152.99 V2 34.786
 RC 99.636 GL 17.28 GP 10.03 ZAL 39.18 ZAP 133.79 ETS 9.86 ZAE 131.05 ETE 170.57 ZAC 80.50 ETC 167.19 CLP-134.65

PLANETOCENTRIC CONIC

C3 20.426 VHL 4.520 DLA 25.68 RAL 16.28 RAD 6567.8 VEL 11.908 PTH 2.12 VHP 3.899 DPA 1.38 RAP 346.40 ECC 1.3362
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 5 47 3189.00 -26.24 109.97 246.94 78.95 4 58 56 2589.0 -27.50 101.53
 90.00 0 31 48 3893.87 -9.68 154.73 241.01 63.26 1 36 42 3293.9 -13.19 147.82
 100.00 5 52 41 2844.35 -28.68 85.09 247.42 81.18 6 40 5 2244.4 -29.60 76.41
 100.00 1 27 35 3713.74 -7.49 140.33 239.83 60.98 2 29 29 3113.7 -11.30 133.62
 110.00 7 47 36 2484.82 -33.99 58.48 248.11 86.13 8 29 0 1884.8 -34.15 49.24
 110.00 1 49 10 3646.04 -2.93 132.40 237.03 55.93 2 49 56 3046.0 -7.39 126.14

DIFFERENTIAL CORRECTIONS

TOE 2.1943 TRA 3.0396 TC3-2.0406 BAU .5624
 RDE -.0213 RRA -.4943 RC3 .2783 FAU .07884
 FDE 5.2645 FRA 7.7476 FC3-3.3415 BSP 16921
 BOE 2.1944 BRA 3.0796 BC3 2.0595 FSP -4129

MID-COURSE EXECUTION ACCURACY

SGT 5424.3 SGR 740.0 SG3 1134.6
 RRT -.8751 RRF -.8767 RTF .9931
 SGB 5474.6 R23 .0080 R13 -.9932
 SG1 5463.0 SG2 355.6 TMA 173.16

ORBIT DETERMINATION ACCURACY

ST 3063.8 SR 210.5 SS 2503.6
 CRT -.5321 CRS .5516 CST -.9997
 LSA 3958.0 MSA 182.8 SSA 12.4
 EL1 3065.9 EL2 178.1 ALF 177.90

LAUNCH DATE NOV 23 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 554.949

RL 147.71 LAL .00 LOL 60.77 VL 27.844 GAL 6.73 AZL 87.16 MCA 245.05 SMA 129.90 ECC .17966 INC 2.8439 V1 30.163
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.613 GAP 4.59 AZP 91.20 TAL 146.00 TAP 31.05 RCA 106.57 APO 153.24 V2 34.784
 RC 102.038 GL 17.31 GP 9.30 ZAL 38.79 ZAP 137.05 ETS 10.23 ZAE 129.26 ETE 171.55 ZAC 80.59 ETC 167.07 CLP-137.88

PLANETOCENTRIC CONIC

C3 21.273 VHL 4.612 DLA 25.88 RAL 16.71 RAD 6567.9 VEL 11.944 PTH 2.13 VHP 4.083 DPA .68 RAP 346.62 ECC 1.3501
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 3 29 3212.40 -25.92 111.61 248.10 78.18 4 57 1 2612.4 -27.29 103.21
 90.00 0 37 34 3889.93 -9.80 154.51 242.21 63.30 1 42 24 3289.9 -13.31 147.59
 100.00 5 51 19 2864.73 -28.46 86.57 248.64 80.44 6 39 4 2264.7 -29.48 77.91
 100.00 1 32 24 3712.84 -7.52 140.28 240.99 60.98 2 34 17 3112.8 -11.33 133.57
 110.00 7 47 18 2501.84 -33.90 59.80 249.43 85.35 8 29 0 1901.8 -34.18 50.57
 110.00 1 52 55 3648.50 -2.84 132.53 238.10 55.92 2 53 43 3048.5 -7.29 126.27

DIFFERENTIAL CORRECTIONS

TOE 2.3329 TRA 3.2458 TC3-2.0378 BAU .5839
 RDE .0195 RRA -.4567 RC3 .2489 FAU .07067
 FDE 4.9067 FRA 7.2607 FC3-2.8760 BSP 17777
 BOE 2.3330 BRA 3.2778 BC3 2.0530 FSP -3803

MID-COURSE EXECUTION ACCURACY

SGT 5658.3 SGR 671.5 SG3 1039.3
 RRT -.8389 RRF -.8398 RTF .9929
 SGB 5698.0 R23 .0062 R13 -.9930
 SG1 5686.3 SG2 363.7 TMA 174.29

ORBIT DETERMINATION ACCURACY

ST 3195.3 SR 190.8 SS 2398.1
 CRT -.3028 CRS .3254 CST -.9997
 LSA 3995.2 MSA 187.0 SSA 12.5
 EL1 3195.8 EL2 181.9 ALF 178.96

LAUNCH DATE NOV 23 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 561.002

RL 147.71 LAL .00 LOL 60.77 VL 27.833 GAL 6.94 AZL 87.10 MCA 248.21 SMA 129.82 ECC .18256 INC 2.9038 V1 30.163
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.604 GAP 5.02 AZP 91.08 TAL 145.47 TAP 33.68 RCA 106.12 APO 153.52 V2 34.783
 RC 104.441 GL 17.28 GP 8.65 ZAL 38.35 ZAP 140.08 ETS 10.58 ZAE 127.64 ETE 172.35 ZAC 80.90 ETC 166.96 CLP-140.87

PLANETOCENTRIC CONIC

C3 22.213 VHL 4.713 DLA 26.03 RAL 17.19 RAD 6567.9 VEL 11.983 PTH 2.14 VHP 4.281 DPA .14 RAP 347.02 ECC 1.3656
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 5 3234.07 -25.61 113.12 249.35 77.49 4 55 59 2634.1 -27.08 104.76
 90.00 0 42 48 3889.14 -9.82 154.46 243.47 63.31 1 47 37 3289.1 -13.33 147.54
 100.00 5 50 44 2883.78 -28.23 87.94 249.94 79.75 6 38 48 2283.8 -29.36 79.32
 100.00 1 36 50 3714.67 -7.46 140.38 242.21 60.97 2 38 45 3114.7 -11.27 133.67
 110.00 7 47 36 2518.11 -33.81 61.06 250.83 84.61 8 29 34 1918.1 -34.18 51.84
 110.00 1 56 27 3653.11 -2.66 132.77 239.25 55.91 2 57 20 3053.1 -7.12 126.51

DIFFERENTIAL CORRECTIONS

TOE 2.4686 TRA 3.4550 TC3-2.0134 BAU .6015
 RDE .0571 RRA -.4241 RC3 .2223 FAU .06269
 FDE 4.5787 FRA 6.8215 FC3-2.4431 BSP 18478
 BOE 2.4692 BRA 3.4809 BC3 2.0256 FSP -3478

MID-COURSE EXECUTION ACCURACY

SGT 5870.1 SGR 614.8 SG3 952.2
 RRT -.7957 RRF -.7958 RTF .9926
 SGB 5902.2 R23 .0046 R13 -.9926
 SG1 5880.5 SG2 371.1 TMA 175.22

ORBIT DETERMINATION ACCURACY

ST 3312.9 SR 185.7 SS 2299.7
 CRT -.0545 CRS .0786 CST -.9997
 LSA 4032.7 MSA 190.9 SSA 12.6
 EL1 3313.0 EL2 185.4 ALF 179.82

LAUNCH DATE NOV 23 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 567.025

RL 147.71 LAL .00 LOL 60.77 VL 27.820 GAL 7.18 AZL 87.04 MCA 251.37 SMA 129.74 ECC .18575 INC 2.9611 V1 30.163
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.595 GAP 5.46 AZP 90.95 TAL 144.92 TAP 36.29 RCA 105.64 APO 153.83 V2 34.783
 RC 106.844 GL 17.20 GP 8.07 ZAL 37.88 ZAP 142.90 ETS 10.93 ZAE 126.18 ETE 173.00 ZAC 81.39 ETC 166.85 CLP-143.66

PLANETOCENTRIC CONIC

C3 23.256 VHL 4.822 DLA 26.15 RAL 17.72 RAD 6567.9 VEL 12.026 PTH 2.15 VHP 4.492 DPA -.25 RAP 347.59 ECC 1.3827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 1 33 3254.04 -25.31 114.51 250.69 76.86 4 55 47 2654.0 -26.87 106.19
 90.00 0 47 30 3891.49 -9.75 154.60 244.79 63.28 1 52 22 3291.5 -13.26 147.68
 100.00 5 50 52 2901.62 -28.01 89.22 251.33 79.11 6 39 14 2301.6 -29.23 80.63
 100.00 1 40 52 3719.14 -7.31 140.63 243.49 60.93 2 42 51 3119.1 -11.13 133.93
 110.00 7 48 27 2533.74 -33.70 62.27 252.32 83.90 8 30 40 1933.7 -34.18 53.06
 110.00 1 59 47 3659.79 -2.41 133.12 240.46 55.89 3 0 47 3059.8 -6.87 126.87

DIFFERENTIAL CORRECTIONS

TOE 2.5951 TRA 3.6618 TC3-1.9809 BAU .6190
 RDE .0928 RRA -.3949 RC3 .1995 FAU .05575
 FDE 4.2655 FRA 6.4134 FC3-2.0755 BSP 19191
 BOE 2.5967 BRA 3.6831 BC3 1.9909 FSP -3198

MID-COURSE EXECUTION ACCURACY

SGT 6053.7 SGR 567.8 SG3 871.5
 RRT -.7451 RRF -.7445 RTF .9923
 SGB 6080.3 R23 .0033 R13 -.9923
 SG1 6068.5 SG2 377.7 TMA 175.99

ORBIT DETERMINATION ACCURACY

ST 3409.4 SR 191.7 SS 2201.5
 CRT .1705 CRS -.1460 CST -.9997
 LSA 4058.2 MSA 194.6 SSA 12.7
 EL1 3409.5 EL2 188.9 ALF .55

LAUNCH DATE NOV 23 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 573.014

RL 147.71 LAL .00 LOL 60.77 VL 27.807 GAL 7.43 AZL 86.98 HCA 254.53 SMA 129.64 ECC .18926 INC 3.0162 V1 30.163
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.586 GAP 5.91 AZP 90.81 TAL 144.34 TAP 38.87 RCA 105.11 APO 154.18 V2 34.784
 RC 109.246 GL 17.08 GP 7.55 ZAL 37.38 ZAP 145.52 ETS 11.28 ZAE 124.87 ETE 173.54 ZAC 82.06 ETC 166.76 CLP-146.26

PLANETOCENTRIC CONIC

C3 24.414 VHL 4.941 DLA 26.24 RAL 18.28 RAD 6568.0 VEL 12.074 PTH 2.16 VHP 4.716 DPA -.51 RAP 348.31 ECC 1.4018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 1 53 3272.37 -25.02 115.77 252.11 76.29 4 56 26 2672.4 -26.66 107.49
 90.00 0 51 39 3896.95 -9.58 154.91 246.17 63.23 1 56 36 3297.0 -13.10 148.00
 100.00 5 51 42 2918.34 -27.79 90.41 252.80 78.52 6 40 20 2318.3 -29.09 81.85
 100.00 1 44 31 3726.21 -7.08 141.03 244.83 60.88 2 46 38 3126.2 -10.91 134.33
 110.00 7 49 47 2548.85 -33.58 63.44 253.88 83.22 8 32 16 1948.8 -34.16 54.24
 110.00 2 2 55 3668.47 -2.08 133.57 241.74 55.87 3 4 4 3068.5 -6.54 127.33

DIFFERENTIAL CORRECTIONS

TDE 2.7178 TRA 3.8726 TC3-1.9347 BAU .6342
 RDE .1264 RRA -.3688 RC3 .1790 FAU .04935
 FDE 3.9781 FRA 6.0444 FC3-1.7501 BSP 19833
 BDE 2.7207 BRA 3.8901 BC3 1.9429 FSP -2939

MID-COURSE EXECUTION ACCURACY

SGT 6217.0 SGR 529.2 SG3 798.1
 RRT -.6879 RRF -.6863 RTF .9919
 SGB 6239.4 R23 .0020 R13 -.9919
 SG1 6227.7 SG2 383.5 THA 176.64

ORBIT DETERMINATION ACCURACY

ST 3491.5 SR 204.8 SS 2108.4
 CRT .3450 CRS -.3212 CST -.9997
 LSA 4079.1 MSA 198.0 SSA 12.7
 EL1 3492.3 EL2 192.2 ALF 1.16

LAUNCH DATE NOV 23 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 578.969

RL 147.71 LAL .00 LOL 60.77 VL 27.793 GAL 7.70 AZL 86.93 HCA 257.69 SMA 129.54 ECC .19310 INC 3.0697 V1 30.163
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.577 GAP 6.37 AZP 90.65 TAL 143.74 TAP 41.43 RCA 104.53 APO 154.56 V2 34.785
 RC 111.645 GL 16.91 GP 7.08 ZAL 36.85 ZAP 147.97 ETS 11.65 ZAE 123.69 ETE 174.00 ZAC 82.88 ETC 166.67 CLP-148.68

PLANETOCENTRIC CONIC

C3 25.700 VHL 5.070 DLA 26.29 RAL 18.88 RAD 6568.0 VEL 12.128 PTH 2.17 VHP 4.952 DPA -.65 RAP 349.17 ECC 1.4230
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 3 3 3289.12 -24.74 116.92 253.62 75.77 4 57 52 2689.1 -26.46 108.67
 90.00 0 55 15 3905.50 -9.32 155.40 247.60 63.14 2 0 21 3305.5 -12.85 148.50
 100.00 5 53 11 2934.05 -27.57 91.53 254.36 77.97 6 42 5 2334.1 -28.95 83.00
 100.00 1 47 48 3735.80 -6.76 141.56 246.22 60.81 2 50 4 3135.8 -10.60 134.88
 110.00 7 51 36 2563.53 -33.46 64.56 255.53 82.56 8 34 20 1963.5 -34.13 55.38
 110.00 2 5 52 3679.09 -1.67 134.12 243.08 55.85 3 7 11 3079.1 -6.14 127.89

DIFFERENTIAL CORRECTIONS

TDE 2.8378 TRA 4.0893 TC3-1.8764 BAU .6471
 RDE .1583 RRA -.3451 RC3 .1603 FAU .04346
 FDE 3.7160 FRA 5.7125 FC3-1.4640 BSP 20404
 BDE 2.8422 BRA 4.1039 BC3 1.8832 FSP -2699

MID-COURSE EXECUTION ACCURACY

SGT 6362.3 SGR 497.8 SG3 731.6
 RRT -.6247 RRF -.6223 RTF .9915
 SGB 6381.7 R23 .0008 R13 -.9915
 SG1 6369.9 SG2 388.3 THA 177.19

ORBIT DETERMINATION ACCURACY

ST 3561.1 SR 221.5 SS 2020.9
 CRT .4713 CRS -.4486 CST -.9996
 LSA 4095.6 MSA 201.1 SSA 12.7
 EL1 3562.6 EL2 195.3 ALF 1.68

LAUNCH DATE NOV 23 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 584.886

RL 147.71 LAL .00 LOL 60.77 VL 27.779 GAL 8.00 AZL 86.88 HCA 260.85 SMA 129.44 ECC .19730 INC 3.1220 V1 30.163
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.568 GAP 6.84 AZP 90.50 TAL 143.12 TAP 43.97 RCA 103.90 APO 154.98 V2 34.787
 RC 114.042 GL 16.72 GP 6.66 ZAL 36.29 ZAP 150.27 ETS 12.05 ZAE 122.63 ETE 174.39 ZAC 83.83 ETC 166.59 CLP-150.96

PLANETOCENTRIC CONIC

C3 27.131 VHL 5.209 DLA 26.31 RAL 19.50 RAD 6568.1 VEL 12.186 PTH 2.19 VHP 5.202 DPA -.69 RAP 350.14 ECC 1.4465
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 59 3304.40 -24.48 117.97 255.22 75.31 5 0 4 2704.4 -26.26 109.75
 90.00 0 58 18 3917.06 -8.97 156.06 249.08 63.03 2 3 35 3317.1 -12.51 149.18
 100.00 5 55 17 2948.85 -27.36 92.58 255.99 77.46 6 44 26 2348.9 -28.81 84.08
 100.00 1 50 42 3747.84 -6.36 142.23 247.67 60.73 2 53 10 3147.8 -10.21 135.56
 110.00 7 53 51 2577.86 -33.33 65.66 257.25 81.93 8 36 49 1977.9 -34.09 56.50
 110.00 2 8 37 3691.60 -1.19 134.78 244.47 55.84 3 10 9 3091.6 -5.67 128.55

DIFFERENTIAL CORRECTIONS

TDE 2.9551 TRA 4.3131 TC3-1.8086 BAU .6581
 RDE .1890 RRA -.3233 RC3 .1438 FAU .03810
 FDE 3.4759 FRA 5.4135 FC3-1.2159 BSP 20927
 BDE 2.9611 BRA 4.3252 BC3 1.8143 FSP -2481

MID-COURSE EXECUTION ACCURACY

SGT 6490.7 SGR 472.3 SG3 671.2
 RRT -.5566 RRF -.5534 RTF .9911
 SGB 6507.9 R23 -.0003 R13 -.9911
 SG1 6496.0 SG2 392.1 THA 177.67

ORBIT DETERMINATION ACCURACY

ST 3618.1 SR 239.6 SS 1938.0
 CRT .5613 CRS -.5397 CST -.9996
 LSA 4106.3 MSA 203.9 SSA 12.8
 EL1 3620.6 EL2 198.2 ALF 2.14

LAUNCH DATE NOV 23 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 590.763

RL 147.71 LAL .00 LOL 60.77 VL 27.763 GAL 8.33 AZL 86.83 HCA 264.01 SMA 129.33 ECC .20187 INC 3.1733 V1 30.163
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.559 GAP 7.32 AZP 90.33 TAL 142.48 TAP 46.49 RCA 103.23 APO 155.44 V2 34.790
 RC 116.435 GL 16.48 GP 6.28 ZAL 35.70 ZAP 152.43 ETS 12.49 ZAE 121.68 ETE 174.73 ZAC 84.90 ETC 166.52 CLP-153.10

PLANETOCENTRIC CONIC

C3 28.723 VHL 5.359 DLA 26.31 RAL 20.16 RAD 6568.2 VEL 12.251 PTH 2.20 VHP 5.465 DPA -.63 RAP 351.22 ECC 1.4727
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 7 41 3318.33 -24.24 118.91 256.90 74.90 5 2 59 2718.3 -26.08 110.73
 90.00 1 0 49 3931.56 -8.52 156.89 250.60 62.89 2 6 21 3331.6 -12.09 150.03
 100.00 5 57 57 2962.85 -27.15 93.56 257.71 76.98 6 47 20 2362.9 -28.67 85.09
 100.00 1 53 15 3762.27 -5.88 143.03 249.17 60.64 2 55 57 3162.3 -9.75 136.38
 110.00 7 56 30 2591.93 -33.19 66.74 259.05 81.31 8 39 42 1991.9 -34.03 57.60
 110.00 2 11 11 3705.96 -.64 135.53 245.93 55.82 3 12 57 3106.0 -5.12 129.30

DIFFERENTIAL CORRECTIONS

TDE 3.0749 TRA 4.5493 TC3-1.7271 BAU .6650
 RDE .2185 RRA -.3030 RC3 .1283 FAU .03297
 FDE 3.2627 FRA 5.1496 FC3 -.9936 BSP 21308
 BDE 3.0826 BRA 4.5594 BC3 1.7318 FSP -2270

MID-COURSE EXECUTION ACCURACY

SGT 6608.4 SGR 451.7 SG3 617.1
 RRT -.4848 RRF -.4807 RTF .9906
 SGB 6623.8 R23 -.0015 R13 -.9906
 SG1 6612.0 SG2 394.8 THA 178.10

ORBIT DETERMINATION ACCURACY

ST 3668.6 SR 257.5 SS 1862.7
 CRT .6257 CRS -.6052 CST -.9996
 LSA 4117.3 MSA 206.2 SSA 12.8
 EL1 3672.2 EL2 200.7 ALF 2.52

LAUNCH DATE NOV 23 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.747 GAL 8.68 AZL 86.78 MCA 267.18 SMA 129.22 ECC .20684 INC 3.2240 V1 30.163
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.550 GAP 7.83 AZP 90.16 TAL 141.82 TAP 49.00 RCA 102.49 APO 155.95 V2 34.794
 RC 118.823 GL 16.22 GP 5.94 ZAL 35.09 ZAP 154.47 ETS 12.97 ZAE 120.82 ETE 175.02 ZAC 86.08 ETC 166.47 CLP-155.13

PLANETOCENTRIC CONIC

C3 30.498 VHL 5.522 CLA 26.28 RAL 20.83 RAD 6568.2 VEL 12.324 PTH 2.22 VHP 5.743 OPA -.49 RAP 352.39 ECC 1.5019
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 4 3331.02 -24.01 119.77 258.66 74.52 5 6 35 2731.0 -25.91 111.62
 90.00 1 2 50 3948.90 -7.98 157.88 252.16 62.74 2 8 38 3348.9 -11.57 151.05
 100.00 6 1 9 2976.14 -26.94 94.50 259.50 76.53 6 50 45 2376.1 -28.52 86.05
 100.00 1 55 26 3779.01 -5.32 143.96 250.72 60.54 2 58 25 3179.0 -9.20 137.33
 110.00 7 59 30 2605.81 -33.04 67.79 260.91 80.70 8 42 56 2005.8 -33.97 58.68
 110.00 2 13 34 3722.11 -.03 136.37 247.43 55.82 3 15 36 3122.1 -4.51 130.15

DIFFERENTIAL CORRECTIONS

TDE 3.1902 TRA 4.7927 TC3-1.6435 BAU .6717 SGT 6708.4 SGR 435.1 SG3 567.6 ST 3704.8 SR 274.9 SS 1789.6
 RDE .2473 RRA -.2834 RC3 .1143 FAU .02853 RRT -.4105 RRF -.4056 RTF .9902 CRT .6732 CRS -.6537 CST -.9996
 FDE 3.0639 FRA 4.9085 FC3 -.8100 BSP 21744 SGB 6722.5 R23 -.0025 R13 -.9902 LSA 4118.3 MSA 208.2 SSA 12.7
 BOE 3.1998 BRA 4.8010 BC3 1.6475 FSP -2091 SG1 6710.8 SG2 396.6 THA 178.47 EL1 3709.5 EL2 203.0 ALF 2.87

LAUNCH DATE NOV 23 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

RL 147.71 LAL .00 LOL 60.77 VL 27.731 GAL 9.06 AZL 86.73 MCA 270.34 SMA 129.11 ECC .21226 INC 3.2746 V1 30.163
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.542 GAP 8.35 AZP 89.98 TAL 141.16 TAP 51.50 RCA 101.70 APO 156.51 V2 34.798
 RC 121.206 GL 15.93 GP 5.64 ZAL 34.47 ZAP 156.41 ETS 13.52 ZAE 120.03 ETE 175.28 ZAC 87.35 ETC 166.41 CLP-157.05

PLANETOCENTRIC CONIC

C3 32.480 VHL 5.699 CLA 26.22 RAL 21.52 RAD 6568.3 VEL 12.404 PTH 2.24 VHP 6.036 OPA -.27 RAP 353.64 ECC 1.5345
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 5 3342.64 -23.80 120.56 260.50 74.19 5 10 48 2742.6 -25.74 112.43
 90.00 1 4 20 3968.96 -7.35 159.02 253.76 62.58 2 10 29 3369.0 -10.97 152.21
 100.00 6 4 50 2988.83 -26.73 95.39 261.36 76.10 6 54 39 2388.8 -28.38 86.97
 100.00 1 57 17 3798.00 -4.68 145.01 252.31 60.44 3 0 35 3198.0 -8.58 138.39
 110.00 8 2 51 2619.56 -32.89 68.84 262.85 80.10 8 46 31 2019.6 -33.90 59.75
 110.00 2 15 45 3740.04 .66 137.30 248.99 55.82 3 18 5 3140.0 -3.83 131.09

DIFFERENTIAL CORRECTIONS

TDE 3.3058 TRA 5.0481 TC3-1.5534 BAU .6760 SGT 6796.1 SGR 421.7 SG3 522.8 ST 3732.1 SR 291.0 SS 1721.2
 RDE .2756 RRA -.2642 RC3 .1015 FAU .02447 RRT -.3346 RRF -.3291 RTF .9898 CRT .7090 CRS -.6904 CST -.9996
 FDE 2.8834 FRA 4.6926 FC3 -.6523 BSP 22135 SGB 6809.1 R23 -.0034 R13 -.9898 LSA 4114.8 MSA 209.9 SSA 12.7
 BOE 3.3172 BRA 5.0550 BC3 1.5567 FSP -1928 SG1 6797.5 SG2 397.3 THA 178.81 EL1 3737.8 EL2 204.9 ALF 3.17

LAUNCH DATE NOV 24 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 2 1969

HELIOCENTRIC CONIC

DISTANCE 124.884

RL 147.68 LAL .00 LOL 61.78 VL 14.646 GAL 35.63 AZL 88.17 MCA 30.41 SMA 83.85 ECC .84985 INC 1.8255 V1 30.169
 RP 107.64 LAP .92 LOP 92.18 VP 29.718 GAP -56.66 AZP 88.43 TAL 172.36 TAP 202.77 RCA 12.59 APO 155.11 V2 35.206
 RC 96.423 GL 1.07 GP -.89 ZAL 64.14 ZAP 37.43 ETS 176.80 ZAE 129.55 ETE 184.33 ZAC 46.31 ETC 157.19 CLP 37.42

PLANETOCENTRIC CONIC

C3 412.296 VHL 20.305 CLA .05 RAL 357.41 RAD 6572.1 VEL 23.100 PTH 3.28 VMP 31.075 DPA -21.34 RAP 313.02 ECC 7.7853
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 58 17 2824.14 -28.26 83.59 263.26 91.93 7 45 21 2224.1 -27.69 74.97
 90.00 18 56 59 5465.37 28.25 252.34 263.21 87.97 20 28 4 4865.4 27.67 243.72
 100.00 8 19 39 2561.69 -29.83 64.22 263.20 92.06 9 2 20 1961.7 -29.22 55.47
 100.00 20 18 18 5203.05 29.82 232.98 263.14 87.84 21 45 1 4603.1 29.20 224.23
 110.00 9 27 56 2347.92 -34.11 47.80 263.00 92.44 10 7 4 1747.9 -33.39 38.63
 110.00 21 26 30 4989.58 34.10 216.57 262.94 87.45 22 49 40 4389.6 33.37 207.40

DIFFERENTIAL CORRECTIONS

TDE -.9760 TRA-2.2966 TC3 -.1063 BAU .5867
 RDE -1.4335 RRA .7628 RC3 -.0060 FAU .01051
 FDE .3851 FRA .7680 FC3 -.0221 BSP 1991
 BDE 1.7342 BRA 2.4199 BC3 .1064 FSP -46

MID-COURSE EXECUTION ACCURACY

SGT 825.9 SGR 458.8 SG3 22.3
 RRT -.0462 RRF .0412 RTF -.6170
 SGB 944.8 R23 -.0000 R13 .6171
 SG1 826.3 SG2 458.1 THA 177.88

ORBIT DETERMINATION ACCURACY

ST 337.3 SR 409.6 SS 340.1
 CRT .7154 CRS .7663 CST .9954
 LSA 589.0 MSA 223.8 SSA 14.1
 EL1 493.2 EL2 195.8 ALF 52.64

LAUNCH DATE NOV 24 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 4 1969

HELIOCENTRIC CONIC

DISTANCE 130.070

RL 147.68 LAL .00 LOL 61.78 VL 15.472 GAL 33.80 AZL 88.00 MCA 33.65 SMA 85.19 ECC .82531 INC 1.9980 V1 30.169
 RP 107.61 LAP 1.11 LOP 95.41 VP 30.143 GAP -54.17 AZP 88.34 TAL 171.42 TAP 205.07 RCA 14.88 APO 155.49 V2 35.214
 RC 94.200 GL 1.32 GP -.91 ZAL 62.72 ZAP 35.89 ETS 176.79 ZAE 129.30 ETE 184.66 ZAC 47.91 ETC 157.83 CLP 35.88

PLANETOCENTRIC CONIC

C3 379.920 VHL 19.492 CLA .84 RAL 358.62 RAD 6572.0 VEL 22.388 PTH 3.25 VMP 29.996 DPA -20.95 RAP 314.79 ECC 7.2525
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 57 14 2840.68 -28.29 84.80 264.27 91.32 7 44 34 2240.7 -27.81 76.16
 90.00 19 7 40 5432.80 28.15 249.96 263.38 86.78 20 38 13 4832.8 27.40 241.37
 100.00 8 18 57 2577.04 -29.86 65.36 264.23 91.46 9 1 54 1977.0 -29.34 56.60
 100.00 20 28 37 5171.67 29.72 230.65 263.27 86.61 21 54 49 4571.7 28.93 221.94
 110.00 9 28 6 2360.63 -34.14 48.79 264.08 91.86 10 7 26 1760.6 -33.50 39.61
 110.00 21 35 58 4960.84 33.99 214.33 262.95 86.13 22 58 39 4360.8 33.08 205.21

DIFFERENTIAL CORRECTIONS

TDE -.9845 TRA-2.3227 TC3 -.1136 BAU .5782
 RDE -1.3924 RRA .7449 RC3 -.0070 FAU .01049
 FDE .4017 FRA .7964 FC3 -.0239 BSP 2127
 BDE 1.7053 BRA 2.4393 BC3 .1138 FSP -50

MID-COURSE EXECUTION ACCURACY

SGT 863.8 SGR 465.0 SG3 24.0
 RRT -.0473 RRF .0424 RTF -.6356
 SGB 981.0 R23 -.0001 R13 .6357
 SG1 864.2 SG2 464.3 THA 177.95

ORBIT DETERMINATION ACCURACY

ST 354.8 SR 414.5 SS 356.2
 CRT .7139 CRS .7674 CST .9952
 LSA 609.5 MSA 229.9 SSA 14.3
 EL1 506.3 EL2 203.4 ALF 51.17

LAUNCH DATE NOV 24 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 6 1969

HELIOCENTRIC CONIC

DISTANCE 135.396

RL 147.68 LAL .00 LOL 61.78 VL 16.252 GAL 32.15 AZL 87.86 MCA 36.89 SMA 86.56 ECC .80034 INC 2.1435 V1 30.169
 RP 107.59 LAP 1.29 LOP 98.65 VP 30.559 GAP -51.83 AZP 88.29 TAL 170.48 TAP 207.36 RCA 17.28 APO 155.84 V2 35.222
 RC 91.981 GL 1.58 GP -.93 ZAL 61.35 ZAP 34.37 ETS 176.77 ZAE 129.12 ETE 185.02 ZAC 49.54 ETC 158.45 CLP 34.36

PLANETOCENTRIC CONIC

C3 350.282 VHL 18.716 CLA 1.62 RAL 359.78 RAD 6571.9 VEL 21.716 PTH 3.22 VMP 28.953 DPA -20.53 RAP 316.58 ECC 6.7647
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 56 2 2856.53 -28.31 85.95 265.20 90.74 7 43 39 2256.5 -27.91 77.31
 90.00 19 18 6 5400.04 28.00 247.57 263.47 85.59 20 48 6 4800.0 27.09 239.02
 100.00 8 18 8 2591.72 -29.88 66.46 265.17 90.89 9 1 20 1991.7 -29.44 57.68
 100.00 20 38 42 5140.08 29.57 228.32 263.33 85.39 22 4 22 4540.1 28.62 219.64
 110.00 9 28 7 2372.69 -34.16 49.73 265.08 91.30 10 7 39 1772.7 -33.60 40.53
 110.00 21 45 13 4931.87 33.83 212.08 262.90 84.81 23 7 24 4331.9 32.75 203.02

DIFFERENTIAL CORRECTIONS

TDE -.9938 TRA-2.3502 TC3 -.1213 BAU .5692
 RDE -1.3510 RRA .7260 RC3 -.0081 FAU .01048
 FDE .4187 FRA .8254 FC3 -.0259 BSP 2252
 BDE 1.6772 BRA 2.4597 BC3 .1216 FSP -55

MID-COURSE EXECUTION ACCURACY

SGT 903.7 SGR 470.5 SG3 25.9
 RRT -.0482 RRF .0434 RTF -.6536
 SGB 1018.9 R23 -.0003 R13 .6538
 SG1 904.1 SG2 469.8 THA 178.03

ORBIT DETERMINATION ACCURACY

ST 373.3 SR 418.9 SS 372.6
 CRT .7125 CRS .7684 CST .9950
 LSA 630.8 MSA 235.8 SSA 14.6
 EL1 519.9 EL2 211.1 ALF 49.60

LAUNCH DATE NOV 24 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 8 1969

HELIOCENTRIC CONIC

DISTANCE 140.855

RL 147.68 LAL .00 LOL 61.78 VL 16.988 GAL 30.63 AZL 87.73 MCA 40.13 SMA 87.97 ECC .77511 INC 2.2688 V1 30.169
 RP 107.57 LAP 1.46 LOP 101.89 VP 30.965 GAP -49.60 AZP 88.26 TAL 169.53 TAP 209.66 RCA 19.78 APO 156.15 V2 35.229
 RC 89.765 GL 1.84 GP -.95 ZAL 60.03 ZAP 32.89 ETS 176.74 ZAE 129.00 ETE 185.39 ZAC 51.20 ETC 159.03 CLP 32.87

PLANETOCENTRIC CONIC

C3 323.109 VHL 17.975 CLA 2.40 RAL .89 RAD 6571.8 VEL 21.081 PTH 3.19 VMP 27.943 DPA -20.09 RAP 318.39 ECC 6.3175
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 43 2871.69 -28.32 87.06 266.04 90.19 7 42 35 2271.7 -27.99 78.41
 90.00 19 28 19 5367.05 27.80 245.18 263.50 84.41 20 57 46 4767.1 26.74 236.68
 100.00 8 17 10 2605.72 -29.89 67.50 266.03 90.34 9 0 36 2005.7 -29.52 58.71
 100.00 20 48 32 5108.26 29.37 225.97 263.32 84.17 22 13 40 4508.3 28.25 217.35
 110.00 9 27 59 2384.09 -34.18 50.62 265.98 90.77 10 7 43 1784.1 -33.69 41.41
 110.00 21 54 13 4902.65 33.63 209.83 262.78 83.49 23 15 56 4302.7 32.36 200.82

DIFFERENTIAL CORRECTIONS

TDE -1.0027 TRA-2.3774 TC3 -.1291 BAU .5593
 RDE -1.3095 RRA .7062 RC3 -.0093 FAU .01048
 FDE .4359 FRA .8547 FC3 -.0281 BSP 2396
 BDE 1.6493 BRA 2.4800 BC3 .1295 FSP -60

MID-COURSE EXECUTION ACCURACY

SGT 945.0 SGR 475.5 SG3 27.8
 RRT -.0490 RRF .0444 RTF -.6711
 SGB 1057.8 R23 -.0004 R13 .6712
 SG1 945.3 SG2 474.7 THA 178.11

ORBIT DETERMINATION ACCURACY

ST 392.6 SR 422.8 SS 389.3
 CRT .7111 CRS .7694 CST .9948
 LSA 652.7 MSA 241.4 SSA 14.8
 EL1 534.0 EL2 218.6 ALF 47.98

LAUNCH DATE NOV 24 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 10 1969

HELIOCENTRIC CONIC

DISTANCE 146.438

RL 147.68 LAL .00 LOL 61.78 VL 17.683 GAL 29.22 AZL 87.62 MCA 43.37 SMA 89.39 ECC .74980 INC 2.3781 V1 30.169
 RP 107.55 LAP 1.63 LOP 105.13 VP 31.358 GAP -47.49 AZP 88.27 TAL 168.60 TAP 211.97 RCA 22.37 APO 156.42 V2 35.235
 RC 87.555 GL 2.13 GP -.98 ZAL 58.75 ZAP 31.42 ETS 176.70 ZAE 128.95 ETE 185.77 ZAC 52.89 ETC 159.58 CLP 31.41

PLANETOCENTRIC CONIC

C3 298.163 VHL 17.267 DLA 3.17 RAL 1.96 RAD 6571.7 VEL 20.481 PTH 3.16 VHP 26.965 DPA -19.63 RAP 320.21 ECC 5.9070
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 53 15 2886.19 -28.32 88.12 266.79 89.66 7 41 21 2286.2 -28.06 79.47
 90.00 19 38 17 5333.79 27.56 242.78 263.46 83.23 21 7 11 4733.8 26.34 234.32
 100.00 8 16 4 2619.05 -29.89 68.49 266.80 89.82 8 59 43 2019.0 -29.60 59.69
 100.00 20 58 9 5076.16 29.13 223.62 263.24 82.96 22 22 45 4476.2 27.85 215.05
 110.00 9 27 42 2394.84 -34.18 51.46 266.80 90.28 10 7 37 1794.8 -33.77 42.24
 110.00 22 3 0 4873.13 33.38 207.56 262.59 82.17 23 24 14 4273.1 31.94 198.63

DIFFERENTIAL CORRECTIONS

TDE-1.0117 TRA-2.4047 TC3 -.1372 BAU .5487
 RDE-1.2678 RRA .6856 RC3 -.0106 FAU .01050
 FDE .4534 FRA .8845 FC3 -.0305 BSP 2547
 BOE 1.6220 BRA 2.5005 BC3 .1376 FSP -65

MID-COURSE EXECUTION ACCURACY

SGT 987.9 SGR 479.8 SG3 29.9
 RRT -.0497 RRF .0453 RTF -.6879
 SGB 1098.2 R23 -.0006 R13 .6880
 SG1 988.3 SG2 479.0 TMA 178.19

ORBIT DETERMINATION ACCURACY

ST 412.8 SR 426.2 SS 406.4
 CRT .7097 CRS .7703 CST .9946
 LSA 675.3 MSA 246.6 SSA 15.0
 EL1 548.6 EL2 225.9 ALF 46.29

LAUNCH DATE NOV 24 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 152.139

RL 147.68 LAL .00 LOL 61.78 VL 18.338 GAL 27.91 AZL 87.52 MCA 46.61 SMA 90.84 ECC .72453 INC 2.4752 V1 30.169
 RP 107.53 LAP 1.80 LOP 108.37 VP 31.739 GAP -45.48 AZP 88.30 TAL 167.66 TAP 214.28 RCA 25.02 APO 156.65 V2 35.240
 RC 85.353 GL 2.42 GP -1.01 ZAL 57.52 ZAP 29.97 ETS 176.65 ZAE 128.95 ETE 186.17 ZAC 54.60 ETC 160.10 CLP 29.96

PLANETOCENTRIC CONIC

C3 275.239 VHL 16.590 DLA 3.93 RAL 2.98 RAD 6571.6 VEL 19.914 PTH 3.13 VHP 26.017 DPA -19.15 RAP 322.05 ECC 5.5297
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 51 38 2900.03 -28.31 89.14 267.46 89.15 7 39 58 2300.0 -28.12 80.48
 90.00 19 48 3 5300.20 27.27 240.36 263.35 82.05 21 16 23 4700.2 25.89 231.97
 100.00 8 14 49 2631.73 -29.89 69.43 267.48 89.32 8 58 41 2031.7 -29.66 60.63
 100.00 21 7 34 5043.73 28.83 221.25 263.10 81.75 22 31 37 4443.7 27.39 212.75
 110.00 9 27 17 2404.93 -34.18 52.25 267.52 89.81 10 7 21 1804.9 -33.83 43.02
 110.00 22 11 35 4843.29 33.08 205.28 262.34 80.85 23 32 18 4243.3 31.46 196.43

DIFFERENTIAL CORRECTIONS

TDE-1.0211 TRA-2.4323 TC3 -.1456 BAU .5377
 RDE-1.2259 RRA .6644 RC3 -.0120 FAU .01053
 FDE .4715 FRA .9150 FC3 -.0331 BSP 2691
 BOE 1.5955 BRA 2.5214 BC3 .1461 FSP -71

MID-COURSE EXECUTION ACCURACY

SGT 1032.8 SGR 483.5 SG3 32.2
 RRT -.0502 RRF .0460 RTF -.7041
 SGB 1140.4 R23 -.0008 R13 .7042
 SG1 1033.2 SG2 482.7 TMA 178.28

ORBIT DETERMINATION ACCURACY

ST 434.0 SR 429.0 SS 423.8
 CRT .7084 CRS .7712 CST .9944
 LSA 698.9 MSA 251.6 SSA 15.2
 EL1 564.0 EL2 233.0 ALF 44.53

LAUNCH DATE NOV 24 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 157.950

RL 147.68 LAL .00 LOL 61.78 VL 18.956 GAL 26.68 AZL 87.44 MCA 49.86 SMA 92.29 ECC .69944 INC 2.5624 V1 30.169
 RP 107.52 LAP 1.96 LOP 111.61 VP 32.105 GAP -43.56 AZP 88.35 TAL 166.74 TAP 216.60 RCA 27.74 APO 156.85 V2 35.245
 RC 83.158 GL 2.72 GP -1.04 ZAL 56.34 ZAP 28.55 ETS 176.59 ZAE 129.03 ETE 186.60 ZAC 56.34 ETC 160.60 CLP 28.53

PLANETOCENTRIC CONIC

C3 254.151 VHL 15.942 DLA 4.68 RAL 3.96 RAD 6571.5 VEL 19.377 PTH 3.10 VHP 25.098 DPA -18.65 RAP 323.89 ECC 5.1827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 49 51 2913.23 -28.29 90.10 268.03 88.66 7 38 25 2313.2 -28.17 81.44
 90.00 19 57 37 5266.25 26.92 237.94 263.18 80.88 21 25 23 4666.2 25.39 229.61
 100.00 8 13 24 2643.77 -29.87 70.32 268.07 88.85 8 57 28 2043.8 -29.71 61.52
 100.00 21 16 46 5010.94 28.49 218.87 262.89 80.54 22 40 17 4410.9 26.89 210.44
 110.00 9 26 41 2414.39 -34.18 52.99 268.15 89.37 10 6 56 1814.4 -33.89 43.76
 110.00 22 19 58 4813.08 32.73 202.99 262.03 79.54 23 40 11 4213.1 30.94 194.23

DIFFERENTIAL CORRECTIONS

TDE-1.0294 TRA-2.4584 TC3 -.1541 BAU .5255
 RDE-1.1841 RRA .6425 RC3 -.0136 FAU .01056
 FDE .4898 FRA .9459 FC3 -.0360 BSP 2867
 BOE 1.5690 BRA 2.5410 BC3 .1547 FSP -78

MID-COURSE EXECUTION ACCURACY

SGT 1078.9 SGR 486.5 SG3 34.6
 RRT -.0506 RRF .0467 RTF -.7197
 SGB 1183.5 R23 -.0010 R13 .7197
 SG1 1079.3 SG2 485.7 TMA 178.36

ORBIT DETERMINATION ACCURACY

ST 455.9 SR 431.2 SS 441.6
 CRT .7070 CRS .7721 CST .9941
 LSA 723.1 MSA 256.1 SSA 15.4
 EL1 579.9 EL2 239.7 ALF 42.75

LAUNCH DATE NOV 24 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 163.864

RL 147.68 LAL .00 LOL 61.78 VL 19.538 GAL 25.53 AZL 87.36 MCA 53.10 SMA 93.76 ECC .67462 INC 2.6417 V1 30.169
 RP 107.51 LAP 2.11 LOP 114.86 VP 32.457 GAP -41.74 AZP 88.41 TAL 165.83 TAP 218.93 RCA 30.51 APO 157.01 V2 35.249
 RC 80.975 GL 3.04 GP -1.07 ZAL 55.20 ZAP 27.14 ETS 176.50 ZAE 129.17 ETE 187.04 ZAC 58.10 ETC 161.07 CLP 27.12

PLANETOCENTRIC CONIC

C3 234.740 VHL 15.321 DLA 5.43 RAL 4.89 RAD 6571.4 VEL 18.869 PTH 3.07 VHP 24.205 DPA -18.12 RAP 325.75 ECC 4.8632
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 55 2925.82 -28.26 91.02 268.52 88.20 7 36 41 2325.8 -28.21 82.36
 90.00 20 6 59 5231.88 26.53 235.50 262.95 79.72 21 34 11 4631.9 24.84 227.24
 100.00 8 11 49 2655.19 -29.85 71.17 268.57 88.41 8 56 5 2055.2 -29.76 62.37
 100.00 21 25 46 4977.75 28.09 216.49 262.62 79.34 22 48 44 4377.7 26.34 208.13
 110.00 9 25 56 2423.23 -34.17 53.68 268.69 88.96 10 6 20 1823.2 -33.94 44.44
 110.00 22 28 9 4782.47 32.33 200.70 261.65 78.23 23 47 51 4182.5 30.37 192.03

DIFFERENTIAL CORRECTIONS

TDE-1.0382 TRA-2.4845 TC3 -.1627 BAU .5130
 RDE-1.1422 RRA .6201 RC3 -.0154 FAU .01064
 FDE .5088 FRA .9776 FC3 -.0392 BSP 3037
 BOE 1.5435 BRA 2.5608 BC3 .1635 FSP -85

MID-COURSE EXECUTION ACCURACY

SGT 1127.2 SGR 488.8 SG3 37.2
 RRT -.0509 RRF .0472 RTF -.7346
 SGB 1228.6 R23 -.0013 R13 .7347
 SG1 1127.5 SG2 488.0 TMA 178.45

ORBIT DETERMINATION ACCURACY

ST 478.9 SR 432.8 SS 459.9
 CRT .7057 CRS .7730 CST .9939
 LSA 748.5 MSA 260.3 SSA 15.5
 EL1 596.8 EL2 246.1 ALF 40.91

LAUNCH DATE NOV 24 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 169.876

RL 147.68 LAL .00 LOL 61.78 VL 20.088 GAL 24.43 AZL 87.29 MCA 56.35 SMA 95.22 ECC .65017 INC 2.7146 V1 30.169
 RP 107.50 LAP 2.26 LOP 118.10 VP 32.794 GAP -39.99 AZP 88.50 TAL 164.93 TAP 221.27 RCA 33.31 APO 157.13 V2 35.253
 RC 78.802 GL 3.37 GP -1.11 ZAL 54.11 ZAP 25.75 ETS 176.40 ZAE 129.39 ETE 187.51 ZAC 59.88 ETC 161.52 CLP 25.73

PLANETOCENTRIC CONIC

C3 216.863 VHL 14.726 DLA 6.17 RAL 5.78 RAD 6571.2 VEL 18.390 PTH 3.04 VHP 23.339 DPA -17.58 RAP 327.61 ECC 4.5690
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 48 2937.84 -28.24 91.90 266.92 87.76 7 34 46 2337.8 -28.25 83.24
 90.00 20 16 11 5197.06 26.08 233.05 262.65 78.57 21 42 48 4597.1 24.24 224.86
 100.00 8 10 4 2666.03 -29.83 71.98 268.99 87.98 8 54 30 2066.0 -29.79 63.17
 100.00 21 34 36 4944.11 27.65 214.09 262.29 78.15 22 57 0 4344.1 25.73 205.81
 110.00 9 25 1 2431.46 -34.16 54.32 269.14 88.58 10 5 33 1831.5 -33.98 45.08
 110.00 22 36 8 4751.43 31.87 198.39 261.22 76.94 23 55 20 4151.4 29.75 189.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0506 TRA-2.5134 TC3 -.1723 BAU .5020 SGT 1179.8 SGR 490.4 SG3 40.0 ST 504.4 SR 433.8 SS 479.0
 RDE-1.1003 RRA .5973 RC3 -.0173 FAU .01070 RRT -.0502 RRF .0474 RTF -.7489 CRT .7053 CRS .7741 CST .9937
 FDE .5289 FRA 1.0105 FC3 -.0427 BSP 3124 SGB 1277.7 R23 -.0020 R13 .7489 LSA 776.0 MSA 263.9 SSA 15.7
 BOE 1.5213 BRA 2.5834 BC3 .1731 FSP -92 SGI 1180.1 SG2 489.7 THA 178.56 ELI 615.7 EL2 251.9 ALF 38.95

LAUNCH DATE NOV 24 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 175.977

RL 147.68 LAL .00 LOL 61.78 VL 20.606 GAL 23.40 AZL 87.22 MCA 59.59 SMA 96.68 ECC .62616 INC 2.7821 V1 30.169
 RP 107.49 LAP 2.40 LOP 121.35 VP 33.116 GAP -38.32 AZP 88.59 TAL 164.04 TAP 223.63 RCA 36.14 APO 157.22 V2 35.255
 RC 76.644 GL 3.72 GP -1.15 ZAL 53.07 ZAP 24.38 ETS 176.27 ZAE 129.68 ETE 188.00 ZAC 61.68 ETC 161.94 CLP 24.35

PLANETOCENTRIC CONIC

C3 200.390 VHL 14.156 DLA 6.91 RAL 6.62 RAD 6571.1 VEL 17.936 PTH 3.00 VHP 22.498 DPA -17.02 RAP 329.48 ECC 4.2979
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 43 30 2949.30 -28.20 92.74 269.22 87.35 7 32 39 2349.3 -28.27 84.07
 90.00 20 25 13 5161.75 25.58 230.58 262.30 77.43 21 51 14 4561.7 23.60 222.47
 100.00 8 8 8 2676.30 -29.80 72.74 269.31 87.58 8 52 44 2076.3 -29.82 63.94
 100.00 21 43 15 4909.98 27.15 211.67 261.91 76.98 23 5 5 4310.0 25.08 203.48
 110.00 9 23 55 2439.11 -34.14 54.92 269.49 88.23 10 4 35 1839.1 -34.01 45.68
 110.00 22 43 57 4719.93 31.37 196.07 260.73 75.66 24 2 37 4119.9 29.08 187.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0626 TRA-2.5410 TC3 -.1820 BAU .4903 SGT 1234.4 SGR 491.3 SG3 43.0 ST 530.9 SR 434.1 SS 498.7
 RDE-1.0584 RRA .5742 RC3 -.0195 FAU .01078 RRT -.0493 RRF .0474 RTF -.7624 CRT .7049 CRS .7751 CST .9935
 FDE .5497 FRA 1.0442 FC3 -.0466 BSP 3224 SGB 1328.6 R23 -.0028 R13 .7625 LSA 804.6 MSA 267.0 SSA 15.9
 BOE 1.4998 BRA 2.6051 BC3 .1830 FSP -99 SGI 1234.7 SG2 490.6 THA 178.67 ELI 635.7 EL2 257.1 ALF 36.98

LAUNCH DATE NOV 24 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 182.164

RL 147.68 LAL .00 LOL 61.78 VL 21.094 GAL 22.41 AZL 87.15 MCA 62.84 SMA 98.14 ECC .60265 INC 2.8453 V1 30.169
 RP 107.48 LAP 2.53 LOP 124.60 VP 33.424 GAP -36.71 AZP 88.70 TAL 163.17 TAP 226.01 RCA 38.99 APO 157.28 V2 35.257
 RC 74.503 GL 4.08 GP -1.19 ZAL 52.07 ZAP 23.02 ETS 176.10 ZAE 130.04 ETE 188.52 ZAC 63.50 ETC 162.35 CLP 22.99

PLANETOCENTRIC CONIC

C3 185.210 VHL 13.609 DLA 7.64 RAL 7.42 RAD 6571.0 VEL 17.508 PTH 2.97 VHP 21.681 DPA -16.44 RAP 331.35 ECC 4.0481
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 40 59 2960.25 -28.17 93.54 269.44 86.95 7 30 20 2360.3 -28.29 84.87
 90.00 20 34 5 5125.90 25.03 228.10 261.90 76.31 21 59 31 4525.9 22.90 220.08
 100.00 8 6 0 2686.04 -29.77 73.46 269.54 87.20 8 50 47 2086.0 -29.84 64.66
 100.00 21 51 45 4875.34 26.59 209.25 261.47 75.82 23 13 0 4275.3 24.38 201.15
 110.00 9 22 39 2446.21 -34.13 55.47 269.76 87.90 10 3 25 1846.2 -34.04 46.23
 110.00 22 51 36 4687.94 30.80 193.75 260.19 74.39 24 9 44 4087.9 28.35 185.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0845 TRA-2.5774 TC3 -.1940 BAU .4834 SGT 1298.5 SGR 491.4 SG3 46.3 ST 562.7 SR 433.8 SS 520.0
 RDE-1.0167 RRA .5509 RC3 -.0217 FAU .01082 RRT -.0463 RRF .0468 RTF -.7751 CRT .7064 CRS .7765 CST .9936
 FDE .5726 FRA 1.0801 FC3 -.0506 BSP 3094 SGB 1388.3 R23 -.0050 R13 .7751 LSA 838.1 MSA 269.3 SSA 16.1
 BOE 1.4866 BRA 2.6356 BC3 .1952 FSP -104 SGI 1298.7 SG2 490.8 THA 178.83 ELI 660.6 EL2 261.5 ALF 34.78

LAUNCH DATE NOV 24 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 188.421

RL 147.68 LAL .00 LOL 61.78 VL 21.554 GAL 21.47 AZL 87.10 MCA 66.09 SMA 99.58 ECC .57966 INC 2.9050 V1 30.169
 RP 107.48 LAP 2.66 LOP 127.85 VP 33.718 GAP -35.17 AZP 88.82 TAL 162.32 TAP 228.41 RCA 41.86 APO 157.31 V2 35.258
 RC 72.381 GL 4.46 GP -1.24 ZAL 51.12 ZAP 21.67 ETS 175.90 ZAE 130.49 ETE 189.07 ZAC 65.33 ETC 162.73 CLP 21.64

PLANETOCENTRIC CONIC

C3 171.176 VHL 13.083 DLA 8.37 RAL 8.17 RAD 6570.9 VEL 17.103 PTH 2.93 VHP 20.886 DPA -15.85 RAP 333.23 ECC 3.8171
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 38 16 2970.68 -28.13 94.30 269.56 86.57 7 27 47 2370.7 -28.30 85.64
 90.00 20 42 47 5089.46 24.42 225.61 261.43 75.20 22 7 36 4489.5 22.15 217.67
 100.00 8 3 40 2695.24 -29.74 74.15 269.67 86.84 8 48 35 2095.2 -29.86 65.34
 100.00 22 0 4 4840.13 25.98 206.81 260.97 74.67 23 20 44 4240.1 23.62 198.80
 110.00 9 21 10 2452.72 -34.11 55.98 269.92 87.60 10 2 3 1852.7 -34.07 46.74
 110.00 22 59 4 4655.41 30.18 191.42 259.59 73.14 24 16 39 4055.4 27.58 183.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0147 TRA-2.5202 TC3 -.1852 BAU .4275 SGT 1294.9 SGR 490.9 SG3 49.5 ST 556.5 SR 433.0 SS 532.3
 RDE -.9758 RRA .5266 RC3 -.0244 FAU .01144 RRT -.0617 RRF .0510 RTF -.7906 CRT .6910 CRS .7756 CST .9914
 FDE .5843 FRA 1.1051 FC3 -.0578 BSP 5162 SGB 1384.8 R23 .0058 R13 .7906 LSA 839.9 MSA 273.7 SSA 15.7
 BOE 1.4078 BRA 2.5747 BC3 .1868 FSP -135 SGI 1295.3 SG2 489.9 THA 178.44 ELI 652.7 EL2 266.9 ALF 34.93

LAUNCH DATE NOV 24 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 194.760
 RL 147.68 LAL .00 LOL 61.78 VL 21.987 GAL 20.57 AZL 87.04 HCA 69.34 SMA 101.01 ECC .55732 INC 2.9617 V1 30.169
 RP 107.48 LAP 2.77 LOP 131.10 VP 33.997 GAP -33.69 AZP 88.95 TAL 161.48 TAP 230.82 RCA 44.72 APO 157.31 V2 35.259
 RC 70.281 GL 4.85 GP -1.29 ZAL 50.22 ZAP 20.34 ETS 175.64 ZAE 131.02 ETE 189.66 ZAC 67.17 ETC 163.09 CLP 20.30

PLANETOCENTRIC CONIC

C3 158.288 VHL 12.581 OLA 9.10 RAL 8.88 RAD 6570.7 VEL 16.722 PTH 2.90 VHP 20.115 DPA -15.24 RAP 335.11 ECC 3.6050
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 35 20 2980.77 -28.08 95.03 269.61 86.20 7 25 1 2380.8 -28.31 86.37
 90.00 20 51 23 5052.42 23.75 223.10 260.93 74.11 22 15 35 4452.4 21.34 215.25
 100.00 8 1 7 2704.08 -29.71 74.80 269.72 86.50 8 46 11 2104.1 -29.87 66.00
 100.00 22 8 17 4804.34 25.31 204.36 260.43 73.55 23 28 21 4204.3 22.82 196.45
 110.00 9 19 30 2458.82 -34.09 56.45 270.00 87.32 10 0 29 1858.8 -34.09 47.21
 110.00 23 6 24 4622.36 29.51 189.08 258.96 71.90 24 23 26 4022.4 26.75 180.98

DIFFERENTIAL CORRECTIONS

TOE-1.0659 TRA-2.5831 TC3 -.2039 BAU .4353 SGT 1385.0 SGR 489.5 SG3 53.4 ST 603.0 SR 431.2 SS 558.1
 ROE -.9344 RRA .5034 RC3 -.0270 FAU .01134 RRT -.0518 RRF .0484 RTF -.8008 CRT .6988 CRS .7779 CST .9923
 FOE .6129 FRA 1.1470 FC3 -.0620 BSP 4340 SGB 1468.9 R23 -.0010 R13 .8008 LSA 886.4 MSA 274.0 SSA 16.1
 BOE 1.4174 BRA 2.6317 BC3 .2057 FSP -134 SG1 1385.3 SG2 488.7 THA 178.80 EL1 690.6 EL2 269.3 ALF 31.97

LAUNCH DATE NOV 24 1968

FLIGHT TIME 96.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 201.162
 RL 147.68 LAL .00 LOL 61.78 VL 22.395 GAL 19.72 AZL 86.98 HCA 72.58 SMA 102.42 ECC .53559 INC 3.0160 V1 30.169
 RP 107.48 LAP 2.88 LOP 134.35 VP 34.262 GAP -32.27 AZP 89.10 TAL 160.67 TAP 233.26 RCA 47.57 APO 157.28 V2 35.259
 RC 68.209 GL 5.26 GP -1.34 ZAL 49.36 ZAP 19.02 ETS 175.33 ZAE 131.63 ETE 190.28 ZAC 69.03 ETC 163.44 CLP 18.97

PLANETOCENTRIC CONIC

C3 146.389 VHL 12.099 OLA 9.83 RAL 9.54 RAD 6570.6 VEL 16.362 PTH 2.86 VHP 19.365 DPA -14.62 RAP 336.98 ECC 3.4092
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 9 2990.48 -28.04 95.74 269.56 85.85 7 22 0 2390.5 -28.32 87.08
 90.00 20 59 51 5014.72 23.03 220.57 260.37 73.05 22 23 26 4414.7 20.49 212.82
 100.00 7 58 21 2712.50 -29.67 75.42 269.69 86.18 8 43 33 2112.5 -29.88 66.63
 100.00 22 16 21 4767.94 24.59 201.90 259.84 72.44 23 35 49 4167.9 21.96 194.09
 110.00 9 17 37 2464.46 -34.07 56.90 270.00 87.06 9 58 41 1864.5 -34.10 47.65
 110.00 23 13 34 4588.74 28.77 186.74 258.28 70.70 24 30 3 3988.7 25.87 178.76

DIFFERENTIAL CORRECTIONS

TOE-1.0745 TRA-2.6014 TC3 -.2127 BAU .4203 SGT 1444.6 SGR 487.3 SG3 57.5 ST 632.3 SR 428.7 SS 580.2
 ROE -.8935 RRA .4798 RC3 -.0300 FAU .01153 RRT -.0507 RRF .0481 RTF -.8122 CRT .6986 CRS .7792 CST .9920
 FOE .6372 FRA 1.1846 FC3 -.0682 BSP 4539 SGB 1524.6 R23 -.0016 R13 .8122 LSA 918.9 MSA 274.9 SSA 16.3
 BOE 1.3975 BRA 2.6453 BC3 .2148 FSP -145 SG1 1444.9 SG2 486.6 THA 178.89 EL1 714.0 EL2 271.7 ALF 30.15

LAUNCH DATE NOV 24 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 207.625
 RL 147.68 LAL .00 LOL 61.78 VL 22.780 GAL 18.90 AZL 86.93 HCA 75.83 SMA 103.81 ECC .51453 INC 3.0684 V1 30.169
 RP 107.48 LAP 2.98 LOP 137.60 VP 34.513 GAP -30.91 AZP 89.25 TAL 159.89 TAP 235.72 RCA 50.40 APO 157.23 V2 35.257
 RC 66.167 GL 5.69 GP -1.40 ZAL 48.55 ZAP 17.70 ETS 174.94 ZAE 132.34 ETE 190.95 ZAC 70.90 ETC 163.76 CLP 17.65

PLANETOCENTRIC CONIC

C3 135.421 VHL 11.637 OLA 10.56 RAL 10.16 RAD 6570.5 VEL 16.024 PTH 2.83 VHP 18.637 DPA -13.99 RAP 338.86 ECC 3.2287
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 28 43 2999.91 -27.99 96.42 269.42 85.51 7 18 43 2399.9 -28.32 87.77
 90.00 21 8 13 4976.35 22.24 218.03 259.76 72.01 22 31 10 4376.3 19.57 210.38
 100.00 7 55 19 2720.60 -29.63 76.02 269.56 85.86 8 40 40 2120.6 -29.89 67.23
 100.00 22 24 18 4730.88 23.81 199.42 259.20 71.37 23 43 9 4130.9 21.04 191.72
 110.00 9 15 30 2469.71 -34.05 57.31 269.89 86.82 9 56 40 1869.7 -34.12 48.06
 110.00 23 20 37 4554.54 27.98 184.40 257.55 69.51 24 36 32 3954.5 24.94 176.55

DIFFERENTIAL CORRECTIONS

TOE-1.0851 TRA-2.6200 TC3 -.2218 BAU .4061 SGT 1507.9 SGR 484.3 SG3 61.9 ST 663.8 SR 425.6 SS 603.3
 ROE -.8530 RRA .4564 RC3 -.0331 FAU .01174 RRT -.0490 RRF .0475 RTF -.8229 CRT .6989 CRS .7806 CST .9919
 FOE .6630 FRA 1.2238 FC3 -.0750 BSP 4693 SGB 1583.8 R23 -.0026 R13 .8229 LSA 953.8 MSA 275.2 SSA 16.4
 BOE 1.3803 BRA 2.6594 BC3 .2243 FSP -157 SG1 1508.1 SG2 483.7 THA 179.00 EL1 739.7 EL2 273.1 ALF 28.34

LAUNCH DATE NOV 24 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 214.143
 RL 147.68 LAL .00 LOL 61.78 VL 23.141 GAL 18.12 AZL 86.88 HCA 79.08 SMA 105.18 ECC .49415 INC 3.1194 V1 30.169
 RP 107.49 LAP 3.06 LOP 140.85 VP 34.751 GAP -29.59 AZP 89.41 TAL 159.12 TAP 238.20 RCA 53.21 APO 157.16 V2 35.256
 RC 64.161 GL 6.14 GP -1.47 ZAL 47.80 ZAP 16.40 ETS 174.45 ZAE 133.15 ETE 191.67 ZAC 72.78 ETC 164.07 CLP 16.33

PLANETOCENTRIC CONIC

C3 125.312 VHL 11.194 OLA 11.29 RAL 10.73 RAD 6570.3 VEL 15.705 PTH 2.79 VHP 17.929 DPA -13.35 RAP 340.74 ECC 3.0623
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 25 1 3009.12 -27.94 97.09 269.20 85.18 7 15 10 2409.1 -28.31 88.45
 90.00 21 16 30 4937.26 21.40 215.48 259.12 71.00 22 38 47 4337.3 18.61 207.92
 100.00 7 52 3 2728.45 -29.59 76.60 269.35 85.56 8 37 31 2128.5 -29.89 67.81
 100.00 22 32 9 4693.16 22.96 196.94 258.53 70.32 23 50 22 4093.2 20.07 189.34
 110.00 9 13 10 2474.63 -34.03 57.69 269.71 86.59 9 54 24 1874.6 -34.13 48.44
 110.00 23 27 32 4519.75 27.13 182.05 256.79 68.36 24 42 52 3919.7 23.95 174.33

DIFFERENTIAL CORRECTIONS

TOE-1.0956 TRA-2.6362 TC3 -.2307 BAU .3914 SGT 1573.0 SGR 480.5 SG3 66.6 ST 696.5 SR 421.6 SS 627.4
 ROE -.8130 RRA .4332 RC3 -.0365 FAU .01197 RRT -.0470 RRF .0468 RTF -.8330 CRT .6994 CRS .7822 CST .9917
 FOE .6903 FRA 1.2645 FC3 -.0827 BSP 4860 SGB 1644.8 R23 -.0036 R13 .8331 LSA 990.3 MSA 274.8 SSA 16.5
 BOE 1.3643 BRA 2.6715 BC3 .2336 FSP -170 SG1 1573.2 SG2 480.0 THA 179.09 EL1 766.7 EL2 273.7 ALF 26.60

LAUNCH DATE NOV 24 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 220.711

RL 147.68 LAL .00 LOL 61.78 VL 23.482 GAL 17.37 AZL 86.83 MCA 82.33 SMA 106.52 ECC .47446 INC 3.1692 V1 30.169
 RP 107.50 LAP 3.14 LOP 144.10 VP 34.976 GAP -28.32 AZP 89.58 TAL 158.38 TAP 240.71 RCA 55.98 APO 157.06 V2 35.253
 RC 62.196 GL 6.61 GP -1.54 ZAL 47.09 ZAP 15.10 ETS 173.83 ZAE 134.06 ETE 192.44 ZAC 74.67 ETC 164.37 CLP 15.02

PLANETOCENTRIC CONIC

C3 115.998 VHL 10.770 DLA 12.02 RAL 11.26 RAD 6570.2 VEL 15.406 PTH 2.75 VHP 17.241 DPA -12.70 RAP 342.61 ECC 2.9090
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 21 1 3018.22 -27.88 97.75 268.90 84.85 7 11 20 2418.2 -28.30 89.11
 90.00 21 24 42 4897.42 20.49 212.91 258.44 70.02 22 46 19 4297.4 17.58 205.44
 100.00 7 48 29 2736.13 -29.55 77.17 269.06 85.26 8 34 6 2136.1 -29.89 68.38
 100.00 22 39 55 4654.74 22.06 194.44 257.81 69.30 23 57 30 4054.7 19.05 186.94
 110.00 9 10 34 2479.29 -34.01 58.05 269.44 86.38 9 51 54 1879.3 -34.14 48.81
 110.00 23 34 19 4484.35 26.22 179.70 256.00 67.24 24 49 4 3884.3 22.90 172.11

DIFFERENTIAL CORRECTIONS

TDE-1.1022 TRA-2.6463 TC3 -.2381 BAU .3744
 RDE -.7734 RRA .4102 RC3 -.0401 FAU .01226
 FDE .7186 FRA 1.3063 FC3 -.0915 BSP 5122
 BOE 1.3465 BRA 2.6779 BC3 .2414 FSP -186

MID-COURSE EXECUTION ACCURACY

SGT 1636.6 SGR 475.9 SG3 71.8
 RRT -.0457 RRF .0462 RTF -.8429
 SGB 1704.4 R23 -.0041 R13 .8429
 SG1 1636.7 SG2 475.4 THA 179.17

ORBIT DETERMINATION ACCURACY

ST 728.3 SR 416.8 SS 652.1
 CRT .6995 CRS .7837 CST .9915
 LSA 1026.7 MSA 273.9 SSA 16.6
 EL1 793.4 EL2 273.5 ALF 24.99

LAUNCH DATE NOV 24 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 227.325

RL 147.68 LAL .00 LOL 61.78 VL 23.802 GAL 16.65 AZL 86.78 MCA 85.57 SMA 107.83 ECC .45549 INC 3.2183 V1 30.169
 RP 107.51 LAP 3.21 LOP 147.35 VP 35.189 GAP -27.10 AZP 89.75 TAL 157.67 TAP 243.24 RCA 58.72 APO 156.95 V2 35.250
 RC 60.278 GL 7.10 GP -1.62 ZAL 46.43 ZAP 13.81 ETS 173.06 ZAE 135.07 ETE 193.28 ZAC 76.56 ETC 164.64 CLP 13.71

PLANETOCENTRIC CONIC

C3 107.420 VHL 10.364 DLA 12.75 RAL 11.74 RAD 6570.1 VEL 15.125 PTH 2.72 VHP 16.573 DPA -12.04 RAP 344.48 ECC 2.7679
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 16 43 3027.29 -27.83 98.41 268.51 84.53 7 7 10 2427.3 -28.29 89.78
 90.00 21 32 50 4856.81 19.52 210.32 257.72 69.07 22 53 47 4256.8 16.51 202.95
 100.00 7 44 38 2743.72 -29.51 77.73 268.69 84.97 8 30 22 2143.7 -29.89 68.95
 100.00 22 47 36 4615.61 21.10 191.93 257.07 68.32 24 4 31 4015.6 17.97 184.54
 110.00 9 7 43 2483.76 -33.99 58.40 269.10 86.18 9 49 7 1883.8 -34.15 49.16
 110.00 23 41 0 4448.34 25.25 177.35 255.17 66.15 24 55 9 3848.3 21.81 169.89

DIFFERENTIAL CORRECTIONS

TDE-1.1124 TRA-2.6575 TC3 -.2461 BAU .3591
 RDE -.7344 RRA .3877 RC3 -.0440 FAU .01256
 FDE .7495 FRA 1.3505 FC3 -.1012 BSP 5307
 BOE 1.3329 BRA 2.6856 BC3 .2500 FSP -201

MID-COURSE EXECUTION ACCURACY

SGT 1705.1 SGR 470.5 SG3 77.4
 RRT -.0435 RRF .0454 RTF -.8520
 SGB 1768.8 R23 -.0053 R13 .8520
 SG1 1705.2 SG2 470.0 THA 179.26

ORBIT DETERMINATION ACCURACY

ST 763.3 SR 411.3 SS 678.4
 CRT .7005 CRS .7855 CST .9913
 LSA 1066.5 MSA 272.3 SSA 16.7
 EL1 823.2 EL2 272.2 ALF 25.39

LAUNCH DATE NOV 24 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 233.979

RL 147.68 LAL .00 LOL 61.78 VL 24.103 GAL 15.96 AZL 86.73 MCA 88.82 SMA 109.11 ECC .43722 INC 3.2669 V1 30.169
 RP 107.52 LAP 3.27 LOP 150.60 VP 35.389 GAP -25.91 AZP 89.93 TAL 156.99 TAP 245.81 RCA 61.40 APO 156.81 V2 35.246
 RC 58.412 GL 7.61 GP -1.71 ZAL 45.82 ZAP 12.52 ETS 172.06 ZAE 136.20 ETE 194.19 ZAC 78.45 ETC 164.91 CLP 12.40

PLANETOCENTRIC CONIC

C3 99.523 VHL 9.976 DLA 13.49 RAL 12.17 RAD 6569.9 VEL 14.862 PTH 2.68 VHP 15.924 DPA -11.38 RAP 346.34 ECC 2.6379
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 4 3036.46 -27.76 99.08 268.05 84.20 7 2 41 2436.5 -28.28 90.45
 90.00 21 40 57 4815.39 18.50 207.72 256.98 68.17 23 1 12 4215.4 15.37 200.43
 100.00 7 40 29 2751.34 -29.46 78.29 268.24 84.68 8 26 20 2151.3 -29.88 69.51
 100.00 22 55 13 4575.74 20.07 189.42 256.30 67.37 24 11 29 3975.7 16.83 182.12
 110.00 9 4 36 2488.13 -33.97 58.74 268.67 85.98 9 46 4 1888.1 -34.16 49.50
 110.00 23 47 36 4411.71 24.22 175.00 254.33 65.11 25 1 7 3811.7 20.66 167.67

DIFFERENTIAL CORRECTIONS

TDE-1.1198 TRA-2.6634 TC3 -.2525 BAU .3420
 RDE -.6959 RRA .3657 RC3 -.0480 FAU .01292
 FDE .7820 FRA 1.3963 FC3 -.1124 BSP 5567
 BOE 1.3184 BRA 2.6884 BC3 .2570 FSP -219

MID-COURSE EXECUTION ACCURACY

SGT 1772.5 SGR 464.3 SG3 83.4
 RRT -.0418 RRF .0448 RTF -.8608
 SGB 1832.3 R23 -.0062 R13 .8608
 SG1 1772.6 SG2 463.8 THA 179.33

ORBIT DETERMINATION ACCURACY

ST 797.8 SR 404.9 SS 705.5
 CRT .7012 CRS .7872 CST .9911
 LSA 1106.8 MSA 270.0 SSA 16.7
 EL1 853.0 EL2 270.0 ALF 21.89

LAUNCH DATE NOV 24 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 240.668

RL 147.68 LAL .00 LOL 61.78 VL 24.385 GAL 15.30 AZL 86.68 MCA 92.06 SMA 110.35 ECC .41968 INC 3.3154 V1 30.169
 RP 107.53 LAP 3.31 LOP 153.85 VP 35.577 GAP -24.77 AZP 90.12 TAL 156.33 TAP 248.40 RCA 64.04 APO 156.67 V2 35.241
 RC 56.605 GL 8.14 GP -1.81 ZAL 45.26 ZAP 11.24 ETS 170.76 ZAE 137.44 ETE 195.20 ZAC 80.35 ETC 165.16 CLP 11.09

PLANETOCENTRIC CONIC

C3 92.258 VHL 9.605 DLA 14.23 RAL 12.56 RAD 6569.8 VEL 14.645 PTH 2.65 VHP 15.293 DPA -10.72 RAP 348.20 ECC 2.5183
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 4 3045.84 -27.70 99.75 267.51 83.86 6 57 50 2445.8 -28.26 91.13
 90.00 21 49 2 4773.13 17.41 205.09 256.21 67.31 23 8 35 4173.1 14.18 197.90
 100.00 7 35 59 2759.09 -29.41 78.86 267.71 84.38 8 21 58 2159.1 -29.88 70.09
 100.00 23 2 48 4535.11 18.99 186.89 255.50 66.47 24 18 23 3935.1 15.64 179.69
 110.00 9 1 11 2492.50 -33.95 59.08 268.17 85.78 9 42 43 1892.5 -34.16 49.84
 110.00 23 54 5 4374.47 23.13 172.66 253.45 64.10 25 7 0 3774.5 19.46 165.44

DIFFERENTIAL CORRECTIONS

TDE-1.1279 TRA-2.6674 TC3 -.2582 BAU .3250
 RDE -.6580 RRA .3442 RC3 -.0524 FAU .01332
 FDE .8170 FRA 1.4444 FC3 -.1250 BSP 5819
 BOE 1.3058 BRA 2.6895 BC3 .2635 FSP -238

MID-COURSE EXECUTION ACCURACY

SGT 1842.1 SGR 457.2 SG3 90.0
 RRT -.0400 RRF .0444 RTF -.8692
 SGB 1898.0 R23 -.0073 R13 .8692
 SG1 1842.2 SG2 456.8 THA 179.39

ORBIT DETERMINATION ACCURACY

ST 833.9 SR 397.6 SS 734.1
 CRT .7022 CRS .7891 CST .9909
 LSA 1149.2 MSA 267.1 SSA 16.8
 EL1 884.4 EL2 266.9 ALF 20.46

LAUNCH DATE NOV 24 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 247.388

RL 147.68 LAL .00 LOL 61.78 VL 24.651 GAL 14.67 AZL 86.64 MCA 95.31 SMA 111.56 ECC .40285 INC 3.3641 V1 30.169
 RP 107.55 LAP 3.35 LOP 157.10 VP 35.754 GAP -23.67 AZP 90.31 TAL 155.71 TAP 251.02 RCA 66.62 APO 156.50 V2 35.235
 RC 54.864 GL 8.70 GP -1.92 ZAL 44.76 ZAP 9.97 ETS 169.03 ZAE 138.79 ETE 196.31 ZAC 82.24 ETC 165.39 CLP 9.78

PLANETOCENTRIC CONIC

C3 85.577 VHL 9.251 DLA 14.97 RAL 12.90 RAD 6569.7 VEL 14.385 PTH 2.61 VHP 14.681 DPA -10.06 RAP 350.05 ECC 2.4084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 40 3055.58 -27.63 100.46 266.90 83.52 6 52 35 2455.6 -28.24 91.84
 90.00 21 57 8 4730.00 16.25 202.45 255.42 66.49 23 15 58 4130.0 12.94 195.35
 100.00 7 31 7 2767.11 -29.35 79.45 267.12 84.08 8 17 14 2167.1 -29.86 70.68
 100.00 23 10 22 4493.70 17.84 184.34 254.68 65.61 24 25 16 3893.7 14.40 177.24
 110.00 8 57 27 2496.96 -33.93 59.42 267.60 85.57 9 39 4 1897.0 -34.17 50.19
 110.00 0 4 27 4336.62 21.99 170.32 252.56 63.14 1 16 43 3736.6 18.21 163.22

DIFFERENTIAL CORRECTIONS

TDE-1.1361 TRA-2.6686 TC3 -.2631 BAU .3079
 RDE -.6207 RRA .3234 RC3 -.0569 FAU .01375
 FDE .8548 FRA 1.4950 FC3 -.1391 BSP 6075
 BDE 1.2946 BRA 2.6881 BC3 .2692 FSP -260

MID-COURSE EXECUTION ACCURACY

SGT 1912.9 SGR 449.3 SG3 97.2
 RRT -.0384 RRF .0441 RTF -.8770
 SGB 1965.0 R23 -.0085 R13 .8771
 SG1 1913.0 SG2 449.0 THA 179.45

ORBIT DETERMINATION ACCURACY

ST 871.1 SR 389.5 SS 764.3
 CRT .7034 CRS .7910 CST .9908
 LSA 1193.6 MSA 263.6 SSA 16.8
 EL1 917.3 EL2 262.9 ALF 19.09

LAUNCH DATE NOV 24 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 254.134

RL 147.68 LAL .00 LOL 61.78 VL 24.900 GAL 14.07 AZL 86.59 MCA 98.55 SMA 112.73 ECC .38674 INC 3.4133 V1 30.169
 RP 107.57 LAP 3.38 LOP 160.35 VP 35.920 GAP -22.61 AZP 90.51 TAL 155.12 TAP 253.67 RCA 69.13 APO 156.33 V2 35.229
 RC 53.197 GL 9.28 GP -2.04 ZAL 44.30 ZAP 8.71 ETS 166.69 ZAE 140.27 ETE 197.55 ZAC 84.14 ETC 165.62 CLP 8.47

PLANETOCENTRIC CONIC

C3 79.438 VHL 8.913 DLA 15.73 RAL 13.19 RAD 6569.6 VEL 14.170 PTH 2.58 VHP 14.087 DPA -9.41 RAP 351.89 ECC 2.3073
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 50 3065.84 -27.54 101.20 266.22 83.16 6 46 56 2465.8 -28.21 92.59
 90.00 22 5 16 4685.94 15.04 199.79 254.61 65.72 23 23 22 4085.9 11.64 192.76
 100.00 7 25 52 2775.52 -29.29 80.07 266.45 83.76 8 12 7 2175.5 -29.85 71.31
 100.00 23 17 56 4451.49 16.64 181.79 253.84 64.80 24 32 7 3851.5 13.11 174.78
 110.00 8 53 24 2501.63 -33.90 59.79 266.97 85.36 9 35 6 1901.6 -34.18 50.55
 110.00 0 10 49 4298.15 20.78 167.98 251.66 62.23 1 22 27 3698.2 16.91 161.00

DIFFERENTIAL CORRECTIONS

TDE-1.1447 TRA-2.6673 TC3 -.2667 BAU .2908
 RDE -.5841 RRA .3034 RC3 -.0617 FAU .01424
 FDE .8957 FRA 1.5485 FC3 -.1552 BSP 6334
 BDE 1.2851 BRA 2.6845 BC3 .2738 FSP -283

MID-COURSE EXECUTION ACCURACY

SGT 1985.1 SGR 440.6 SG3 105.0
 RRT -.0370 RRF .0443 RTF -.8845
 SGB 2033.4 R23 -.0100 R13 .8846
 SG1 1985.2 SG2 440.3 THA 179.51

ORBIT DETERMINATION ACCURACY

ST 909.5 SR 380.4 SS 796.1
 CRT .7049 CRS .7930 CST .9906
 LSA 1240.2 MSA 259.5 SSA 16.9
 EL1 951.5 EL2 257.9 ALF 17.77

LAUNCH DATE NOV 24 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 260.903

RL 147.68 LAL .00 LOL 61.78 VL 25.134 GAL 13.49 AZL 86.54 MCA 101.79 SMA 113.86 ECC .37133 INC 3.4633 V1 30.169
 RP 107.59 LAP 3.39 LOP 163.60 VP 36.076 GAP -21.58 AZP 90.71 TAL 154.56 TAP 256.35 RCA 71.58 APO 156.14 V2 35.222
 RC 51.611 GL 9.90 GP -2.17 ZAL 43.91 ZAP 7.46 ETS 163.41 ZAE 141.86 ETE 198.93 ZAC 86.03 ETC 165.83 CLP 7.14

PLANETOCENTRIC CONIC

C3 73.802 VHL 8.591 DLA 16.49 RAL 13.43 RAD 6569.4 VEL 13.970 PTH 2.55 VHP 13.510 DPA -8.77 RAP 353.72 ECC 2.2146
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 33 3076.79 -27.45 101.99 265.48 82.77 6 40 50 2476.8 -28.17 93.39
 90.00 22 13 29 4640.91 13.76 197.10 253.79 65.01 23 30 50 4040.9 10.28 190.15
 100.00 7 20 11 2784.49 -29.22 80.73 265.73 83.42 8 6 36 2184.5 -29.83 71.98
 100.00 23 25 32 4408.45 15.37 179.22 253.00 64.04 24 39 0 3808.4 11.76 172.29
 110.00 8 49 0 2506.63 -33.88 60.17 266.27 85.13 9 30 46 1906.6 -34.18 50.94
 110.00 0 17 8 4259.08 19.53 165.64 250.75 61.37 1 28 7 3659.1 15.55 158.78

DIFFERENTIAL CORRECTIONS

TDE-1.1539 TRA-2.6633 TC3 -.2692 BAU .2736
 RDE -.5481 RRA .2842 RC3 -.0667 FAU .01477
 FDE .9402 FRA 1.6051 FC3 -.1733 BSP 6594
 BDE 1.2774 BRA 2.6784 BC3 .2773 FSP -308

MID-COURSE EXECUTION ACCURACY

SGT 2058.6 SGR 431.1 SG3 113.6
 RRT -.0359 RRF .0451 RTF -.8916
 SGB 2103.3 R23 -.0116 R13 .8916
 SG1 2058.7 SG2 430.8 THA 179.55

ORBIT DETERMINATION ACCURACY

ST 949.4 SR 370.3 SS 829.9
 CRT .7065 CRS .7950 CST .9906
 LSA 1289.2 MSA 254.7 SSA 16.9
 EL1 987.4 EL2 252.0 ALF 16.51

LAUNCH DATE NOV 24 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 267.691

RL 147.68 LAL .00 LOL 61.78 VL 25.353 GAL 12.94 AZL 86.49 MCA 105.03 SMA 114.95 ECC .35662 INC 3.5145 V1 30.169
 RP 107.61 LAP 3.39 LOP 166.84 VP 36.222 GAP -20.58 AZP 90.91 TAL 154.03 TAP 259.07 RCA 73.96 APO 155.95 V2 35.215
 RC 50.116 GL 10.54 GP -2.32 ZAL 43.56 ZAP 6.25 ETS 158.64 ZAE 143.57 ETE 200.51 ZAC 87.91 ETC 166.04 CLP 5.81

PLANETOCENTRIC CONIC

C3 68.631 VHL 8.284 DLA 17.26 RAL 13.62 RAD 6569.3 VEL 13.783 PTH 2.52 VHP 12.950 DPA -8.14 RAP 355.54 ECC 2.1295
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 45 3088.64 -27.35 102.84 264.68 82.36 6 34 13 2408.6 -28.12 94.26
 90.00 22 21 48 4594.85 12.42 194.38 252.96 64.35 23 38 23 3994.8 8.87 187.51
 100.00 7 14 3 2794.20 -29.15 81.44 264.94 83.05 8 0 37 2194.2 -29.80 72.70
 100.00 23 33 11 4364.52 14.05 176.63 252.14 63.34 24 45 55 3764.5 10.36 169.78
 110.00 8 44 13 2512.10 -33.84 60.60 265.92 84.88 9 26 5 1912.1 -34.18 51.37
 110.00 0 23 26 4219.38 18.22 163.31 249.83 60.56 1 33 46 3619.4 14.16 156.55

DIFFERENTIAL CORRECTIONS

TDE-1.1634 TRA-2.6564 TC3 -.2702 BAU .2565
 RDE -.5127 RRA .2660 RC3 -.0718 FAU .01537
 FDE .9887 FRA 1.6651 FC3 -.1939 BSP 6859
 BDE 1.2713 BRA 2.6697 BC3 .2796 FSP -336

MID-COURSE EXECUTION ACCURACY

SGT 2132.9 SGR 420.7 SG3 122.9
 RRT -.0357 RRF .0469 RTF -.8983
 SGB 2174.0 R23 -.0136 R13 .8983
 SG1 2132.9 SG2 420.5 THA 179.58

ORBIT DETERMINATION ACCURACY

ST 990.3 SR 359.3 SS 865.7
 CRT .7082 CRS .7970 CST .9905
 LSA 1340.4 MSA 249.4 SSA 16.9
 EL1 1024.5 EL2 245.2 ALF 15.31

LAUNCH DATE NOV 24 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 274.493

RL 147.68 LAL .00 LOL 61.78 VL 25.558 GAL 12.42 AZL 86.43 HCA 108.27 SMA 116.00 ECC .34259 INC 3.5672 V1 30.169
 RP 107.64 LAP 3.39 LOP 170.09 VP 36.358 GAP -19.62 AZP 91.12 TAL 153.54 TAP 261.81 RCA 76.26 APO 155.74 V2 35.207
 RC 48.721 GL 11.20 GP -2.49 ZAL 43.28 ZAP 5.11 ETS 151.35 ZAE 145.40 ETE 202.31 ZAC 89.78 ETC 166.23 CLP 4.46

PLANETOCENTRIC CONIC

C3 63.892 VHL 7.993 DLA 18.05 RAL 13.76 RAD 6569.2 VEL 13.611 PTH 2.49 VHP 12.407 DPA -7.52 RAP 357.36 ECC 2.0515
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 23 3101.62 -27.23 103.77 263.82 81.91 6 27 4 2501.6 -28.07 95.20
 90.00 22 30 16 4547.65 11.01 191.63 252.14 63.75 23 46 4 3947.6 7.40 184.82
 100.00 7 7 24 2804.84 -29.06 82.22 264.10 82.65 7 54 9 2204.8 -29.77 73.49
 100.00 23 40 56 4319.66 12.66 174.02 251.29 62.69 24 52 55 3719.7 8.90 167.25
 110.00 8 39 2 2518.19 -33.81 61.07 264.72 84.61 9 21 0 1918.2 -34.18 51.84
 110.00 0 29 44 4179.07 16.85 160.98 248.91 59.81 1 39 23 3579.1 12.71 154.32

DIFFERENTIAL CORRECTIONS

TDE-1.1737 TRA-2.6468 TC3 -.2695 BAU .2395
 RDE -.4779 RRA .2489 RC3 -.0772 FAU .01603
 FDE 1.0419 FRA 1.7289 FC3 -.2172 BSP 7123
 BDE 1.2673 BRA 2.6585 BC3 .2804 FSP -367

MID-COURSE EXECUTION ACCURACY

SGT 2208.0 SGR 409.6 SG3 133.2
 RRT -.0365 RRF .0500 RTF -.9046
 SGB 2245.7 R23 -.0158 R13 .9046
 SG1 2208.1 SG2 409.4 THA 179.60

ORBIT DETERMINATION ACCURACY

ST 1032.7 SR 347.2 SS 903.8
 CRT .7101 CRS .7988 CST .9904
 LSA 1394.3 MSA 243.6 SSA 16.9
 EL1 1063.3 EL2 237.4 ALF 14.15

LAUNCH DATE NOV 24 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 281.307

RL 147.68 LAL .00 LOL 61.78 VL 25.750 GAL 11.91 AZL 86.38 HCA 111.51 SMA 117.01 ECC .32924 INC 3.6220 V1 30.169
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.485 GAP -18.69 AZP 91.33 TAL 153.09 TAP 264.60 RCA 78.48 APO 155.53 V2 35.198
 RC 47.437 GL 11.90 GP -2.68 ZAL 43.05 ZAP 4.09 ETS 139.76 ZAE 147.33 ETE 204.39 ZAC 91.64 ETC 166.43 CLP 3.10

PLANETOCENTRIC CONIC

C3 59.554 VHL 7.717 DLA 18.84 RAL 13.84 RAD 6569.1 VEL 13.450 PTH 2.46 VHP 11.881 DPA -6.93 RAP 359.16 ECC 1.9801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 27 23 3115.99 -27.09 104.80 262.90 81.41 6 19 19 2516.0 -28.00 96.25
 90.00 22 38 58 4499.20 9.54 188.83 251.32 63.21 23 53 57 3899.2 5.87 182.08
 100.00 7 0 13 2816.63 -28.95 83.00 263.20 82.21 7 47 9 2216.6 -29.73 74.36
 100.00 23 48 49 4273.79 11.21 171.38 250.44 62.11 25 0 3 3673.8 7.40 164.68
 110.00 8 33 24 2525.06 -33.76 61.60 263.87 84.29 9 15 29 1925.1 -34.18 52.38
 110.00 0 36 3 4138.13 15.43 158.66 248.00 59.11 1 45 1 3538.1 11.23 152.08

DIFFERENTIAL CORRECTIONS

TDE-1.1850 TRA-2.6349 TC3 -.2673 BAU .2228
 RDE -.4437 RRA .2330 RC3 -.0828 FAU .01675
 FDE 1.1006 FRA 1.7971 FC3 -.2435 BSP 7380
 BDE 1.2653 BRA 2.6452 BC3 .2798 FSP -401

MID-COURSE EXECUTION ACCURACY

SGT 2284.1 SGR 397.8 SG3 144.5
 RRT -.0388 RRF .0549 RTF -.9106
 SGB 2318.5 R23 -.0184 R13 .9106
 SG1 2284.2 SG2 397.5 THA 179.60

ORBIT DETERMINATION ACCURACY

ST 1076.4 SR 334.0 SS 944.6
 CRT .7117 CRS .8003 CST .9904
 LSA 1451.1 MSA 237.3 SSA 16.8
 EL1 1103.6 EL2 228.8 ALF 13.02

LAUNCH DATE NOV 24 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 288.128

RL 147.68 LAL .00 LOL 61.78 VL 25.930 GAL 11.43 AZL 86.32 HCA 114.74 SMA 117.97 ECC .31655 INC 3.6791 V1 30.169
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.603 GAP -17.79 AZP 91.54 TAL 152.67 TAP 267.41 RCA 80.63 APO 155.32 V2 35.189
 RC 46.274 GL 12.64 GP -2.89 ZAL 42.88 ZAP 3.36 ETS 121.39 ZAE 149.35 ETE 206.83 ZAC 93.49 ETC 166.61 CLP 1.72

PLANETOCENTRIC CONIC

C3 55.588 VHL 7.456 DLA 19.66 RAL 13.88 RAD 6569.0 VEL 13.302 PTH 2.43 VHP 11.370 DPA -6.37 RAP .95 ECC 1.9148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 40 3132.09 -26.92 105.94 261.93 80.86 6 10 52 2532.1 -27.90 97.42
 90.00 22 47 57 4449.33 8.00 185.98 250.51 62.75 24 2 6 3849.3 4.28 179.27
 100.00 6 52 24 2829.84 -28.82 84.04 262.26 81.72 7 39 34 2229.8 -29.67 75.34
 100.00 0 0 50 4226.81 9.70 168.71 249.60 61.59 1 11 17 3626.8 5.83 162.06
 110.00 8 27 19 2532.90 -33.71 62.21 262.98 83.94 9 9 31 1932.9 -34.18 52.99
 110.00 0 42 25 4096.52 13.97 156.32 247.09 58.48 1 50 41 3496.5 9.69 149.83

DIFFERENTIAL CORRECTIONS

TDE-1.1965 TRA-2.6197 TC3 -.2629 BAU .2061
 RDE -.4099 RRA .2184 RC3 -.0885 FAU .01756
 FDE 1.1652 FRA 1.8700 FC3 -.2734 BSP 7644
 BDE 1.2648 BRA 2.6288 BC3 .2774 FSP -438

MID-COURSE EXECUTION ACCURACY

SGT 2359.9 SGR 385.2 SG3 156.9
 RRT -.0436 RRF .0624 RTF -.9162
 SGB 2391.2 R23 -.0214 R13 .9162
 SG1 2360.0 SG2 384.9 THA 179.58

ORBIT DETERMINATION ACCURACY

ST 1121.1 SR 319.5 SS 988.0
 CRT .7129 CRS .8014 CST .9905
 LSA 1510.5 MSA 230.7 SSA 16.7
 EL1 1144.9 EL2 219.4 ALF 11.93

LAUNCH DATE NOV 24 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 294.954

RL 147.68 LAL .00 LOL 61.78 VL 26.097 GAL 10.97 AZL 86.26 HCA 117.98 SMA 118.90 ECC .30451 INC 3.7394 V1 30.169
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.713 GAP -16.91 AZP 91.76 TAL 152.28 TAP 270.26 RCA 82.69 APO 155.10 V2 35.179
 RC 45.244 GL 13.40 GP -3.13 ZAL 42.77 ZAP 3.15 ETS 96.50 ZAE 151.43 ETE 209.70 ZAC 95.32 ETC 166.80 CLP .31

PLANETOCENTRIC CONIC

C3 51.968 VHL 7.209 DLA 20.48 RAL 13.86 RAD 6568.9 VEL 13.165 PTH 2.40 VHP 10.876 DPA -5.83 RAP 2.72 ECC 1.8553
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 9 8 3150.30 -26.71 107.24 260.91 80.24 6 1 39 2550.3 -27.79 98.74
 90.00 22 57 19 4397.81 6.38 183.06 249.72 62.35 24 10 37 3797.8 2.63 176.39
 100.00 6 43 53 2844.78 -28.67 85.12 261.27 81.17 7 31 18 2244.8 -29.60 76.44
 100.00 0 9 11 4178.57 8.13 166.00 248.77 61.14 1 18 50 3578.6 4.22 159.39
 110.00 8 20 42 2541.90 -33.64 62.90 262.05 83.53 9 3 4 1941.9 -34.17 53.70
 110.00 0 48 52 4054.20 12.45 153.99 246.19 57.90 1 56 26 3454.2 8.12 147.56

DIFFERENTIAL CORRECTIONS

TDE-1.2049 TRA-2.6089 TC3 -.2532 BAU .1877
 RDE -.3764 RRA .2051 RC3 -.0942 FAU .01843
 FDE 1.2370 FRA 1.9483 FC3 -.3071 BSP 7925
 BDE 1.2623 BRA 2.6169 BC3 .2702 FSP -479

MID-COURSE EXECUTION ACCURACY

SGT 2439.2 SGR 371.8 SG3 170.5
 RRT -.0541 RRF .0732 RTF -.9220
 SGB 2467.4 R23 -.0221 R13 .9221
 SG1 2439.3 SG2 371.2 THA 179.52

ORBIT DETERMINATION ACCURACY

ST 1165.4 SR 303.7 SS 1034.8
 CRT .7116 CRS .8019 CST .9901
 LSA 1571.7 MSA 225.0 SSA 16.5
 EL1 1185.9 EL2 209.7 ALF 10.85

LAUNCH DATE NOV 24 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 301.782

RL 147.68 LAL .00 LOL 61.78 VL 26.254 GAL 10.54 AZL 86.20 MCA 121.21 SMA 119.78 ECC .29310 INC 3.8033 V1 30.169
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.814 GAP -16.07 AZP 91.97 TAL 151.94 TAP 273.15 RCA 84.67 APO 154.88 V2 35.169
 RC 44.357 GL 14.21 GP -3.41 ZAL 42.72 ZAP 3.59 ETS 72.76 ZAE 153.53 ETE 213.13 ZAC 97.14 ETC 166.99 CLP -1.12

PLANETOCENTRIC CONIC

C3 48.668 VHL 6.976 DLA 21.33 RAL 13.78 RAD 6568.8 VEL 13.040 PTH 2.38 VHP 10.397 DPA -5.34 RAP 4.48 ECC 1.8010
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 39 3171.11 -26.46 108.71 259.84 79.54 5 51 30 2571.1 -27.64 100.24
 90.00 23 7 12 4344.31 4.68 180.05 248.96 62.04 24 19 36 3744.3 .90 173.40
 100.00 6 34 35 2861.80 -28.49 86.36 260.24 80.54 7 22 17 2261.8 -29.50 77.70
 100.00 0 17 53 4128.85 6.49 163.22 247.97 60.76 1 26 42 3528.9 2.54 156.66
 110.00 8 13 30 2552.31 -33.56 63.70 261.10 83.07 8 56 3 1952.3 -34.15 54.51
 110.00 0 55 27 4011.11 10.88 151.64 245.31 57.39 2 2 18 3411.1 6.50 145.28

DIFFERENTIAL CORRECTIONS

TDE-1.2203 TRA-2.5780 TC3 -.2449 BAU .1722
 ROE -.3433 RRA .1940 RC3 -.1003 FAU .01946
 FDE 1.3159 FRA 2.0313 FC3 -.3462 BSP 8241
 BOE 1.2677 BRA 2.5853 BC3 .2647 FSP -526

MID-COURSE EXECUTION ACCURACY

SGT 2507.5 SGR 358.2 SG3 185.5
 RRT -.0649 RRF .0900 RTF -.9267
 SGB 2533.0 R23 -.0286 R13 .9268
 SG1 2507.6 SG2 357.5 THA 179.46

ORBIT DETERMINATION ACCURACY

ST 1212.3 SR 286.6 SS 1084.2
 CRT .7128 CRS .8010 CST .9905
 LSA 1637.1 MSA 216.6 SSA 16.4
 EL1 1229.8 EL2 198.2 ALF 9.82

LAUNCH DATE NOV 24 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 308.608

RL 147.68 LAL .00 LOL 61.78 VL 26.400 GAL 10.12 AZL 86.13 MCA 124.44 SMA 120.61 ECC .28231 INC 3.8716 V1 30.169
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.908 GAP -15.25 AZP 92.19 TAL 151.62 TAP 276.06 RCA 86.56 APO 154.66 V2 35.158
 RC 43.625 GL 15.05 GP -3.73 ZAL 42.74 ZAP 4.53 ETS 56.32 ZAE 155.62 ETE 217.26 ZAC 98.93 ETC 167.19 CLP -2.58

PLANETOCENTRIC CONIC

C3 45.669 VHL 6.758 DLA 22.20 RAL 13.65 RAD 6568.7 VEL 12.924 PTH 2.36 VHP 9.933 DPA -4.89 RAP 6.23 ECC 1.7516
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 47 2 3195.18 -26.16 110.40 258.73 78.74 5 40 17 2595.2 -27.45 101.97
 90.00 23 17 45 4288.38 2.89 176.91 248.24 61.82 24 29 14 3688.4 -.90 170.28
 100.00 6 24 21 2881.40 -28.26 87.77 259.17 79.83 7 12 23 2281.4 -29.38 79.14
 100.00 0 27 3 4077.39 4.77 160.37 247.20 60.46 1 35 1 3477.4 .80 153.83
 110.00 8 5 41 2564.40 -33.45 64.63 260.11 82.53 8 48 25 1964.4 -34.12 55.45
 110.00 1 2 13 3967.15 9.26 149.27 244.45 56.95 2 8 21 3367.1 4.84 142.96

DIFFERENTIAL CORRECTIONS

TDE-1.2360 TRA-2.5547 TC3 -.2341 BAU .1570
 ROE -.3101 RRA .1844 RC3 -.1065 FAU .02054
 FDE 1.4055 FRA 2.1221 FC3 -.3894 BSP 8477
 BOE 1.2743 BRA 2.5614 BC3 .2572 FSP -576

MID-COURSE EXECUTION ACCURACY

SGT 2582.8 SGR 344.1 SG3 202.1
 RRT -.0833 RRF .1126 RTF -.9314
 SGB 2605.6 R23 -.0338 R13 .9315
 SG1 2582.9 SG2 342.9 THA 179.35

ORBIT DETERMINATION ACCURACY

ST 1261.3 SR 267.8 SS 1138.5
 CRT .7106 CRS .7985 CST .9907
 LSA 1707.3 MSA 209.2 SSA 16.2
 EL1 1275.9 EL2 186.3 ALF 8.77

LAUNCH DATE NOV 24 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 315.432

RL 147.68 LAL .00 LOL 61.78 VL 26.536 GAL 9.73 AZL 86.05 MCA 127.67 SMA 121.41 ECC .27211 INC 3.9455 V1 30.169
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.995 GAP -14.45 AZP 92.41 TAL 151.35 TAP 279.01 RCA 88.37 APO 154.44 V2 35.147
 RC 43.055 GL 15.94 GP -4.09 ZAL 42.82 ZAP 5.77 ETS 46.19 ZAE 157.63 ETE 222.25 ZAC 100.70 ETC 167.39 CLP -4.07

PLANETOCENTRIC CONIC

C3 42.949 VHL 6.554 DLA 23.09 RAL 13.46 RAD 6568.6 VEL 12.819 PTH 2.33 VHP 9.484 DPA -4.51 RAP 7.96 ECC 1.7068
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 1 3223.38 -25.77 112.38 257.55 77.83 5 27 45 2623.4 -27.19 104.00
 90.00 23 29 14 4229.28 .98 173.61 247.57 61.70 24 39 44 3629.3 -2.81 166.98
 100.00 6 13 1 2904.16 -27.98 89.40 258.06 79.02 7 1 26 2304.2 -29.21 80.81
 100.00 0 36 51 4023.73 2.96 157.41 246.48 60.24 1 43 55 3423.7 -1.02 150.89
 110.00 7 57 7 2578.50 -33.32 65.71 259.11 81.90 8 40 6 1978.5 -34.08 56.55
 110.00 1 9 15 3922.16 7.58 146.86 243.63 56.57 2 14 37 3322.2 3.13 140.60

DIFFERENTIAL CORRECTIONS

TDE-1.2487 TRA-2.5242 TC3 -.2169 BAU .1404
 ROE -.2767 RRA .1771 RC3 -.1129 FAU .02180
 FDE 1.5044 FRA 2.2181 FC3 -.4395 BSP 8814
 BOE 1.2790 BRA 2.5304 BC3 .2445 FSP -635

MID-COURSE EXECUTION ACCURACY

SGT 2651.0 SGR 329.8 SG3 220.4
 RRT -.1118 RRF .1451 RTF -.9361
 SGB 2671.4 R23 -.0390 R13 .9361
 SG1 2651.3 SG2 327.7 THA 179.19

ORBIT DETERMINATION ACCURACY

ST 1307.6 SR 247.1 SS 1196.0
 CRT .7048 CRS .7932 CST .9908
 LSA 1777.7 MSA 202.1 SSA 15.9
 EL1 1319.4 EL2 173.8 ALF 7.72

LAUNCH DATE NOV 24 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 322.249

RL 147.68 LAL .00 LOL 61.78 VL 26.662 GAL 9.35 AZL 85.97 MCA 130.89 SMA 122.16 ECC .26250 INC 4.0260 V1 30.169
 RP 107.86 LAP 3.04 LOP 192.75 VP 37.075 GAP -13.68 AZP 92.64 TAL 151.11 TAP 282.00 RCA 90.09 APO 154.23 V2 35.135
 RC 42.657 GL 16.87 GP -4.51 ZAL 42.96 ZAP 7.19 ETS 39.95 ZAE 159.46 ETE 228.26 ZAC 102.44 ETC 167.62 CLP -5.60

PLANETOCENTRIC CONIC

C3 40.492 VHL 6.363 DLA 24.01 RAL 13.20 RAD 6568.6 VEL 12.722 PTH 2.31 VHP 9.051 DPA -4.19 RAP 9.68 ECC 1.6664
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 19 13 3257.02 -25.26 114.71 256.32 76.76 5 13 30 2657.0 -26.84 106.40
 90.00 23 42 2 4165.91 -1.06 170.08 246.98 61.70 24 51 28 3565.9 -4.84 163.43
 100.00 6 0 21 2930.91 -27.62 91.31 256.90 78.08 6 49 12 2330.9 -28.98 82.77
 100.00 0 47 30 3967.25 1.05 154.31 245.81 60.12 1 53 37 3367.3 -2.94 147.79
 110.00 7 47 43 2595.01 -33.16 66.97 258.08 81.17 8 30 58 1995.0 -34.02 57.84
 110.00 1 16 38 3875.92 5.83 144.42 242.84 56.26 2 21 14 3275.9 1.36 138.19

DIFFERENTIAL CORRECTIONS

TDE-1.2620 TRA-2.4900 TC3 -.1958 BAU .1242
 ROE -.2426 RRA .1723 RC3 -.1195 FAU .02323
 FDE 1.6153 FRA 2.3214 FC3 -.4966 BSP 9168
 BOE 1.2851 BRA 2.4959 BC3 .2294 FSP -701

MID-COURSE EXECUTION ACCURACY

SGT 2716.0 SGR 315.7 SG3 240.5
 RRT -.1525 RRF .1901 RTF -.9404
 SGB 2734.3 R23 -.0453 R13 .9405
 SG1 2716.5 SG2 312.0 THA 178.97

ORBIT DETERMINATION ACCURACY

ST 1354.0 SR 224.3 SS 1257.7
 CRT .6937 CRS .7833 CST .9909
 LSA 1851.3 MSA 195.1 SSA 15.5
 EL1 1363.1 EL2 160.5 ALF 6.65

LAUNCH DATE NOV 24 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 26.780 GAL 9.00 AZL 85.89 MCA 134.12 SMA 122.87 ECC .25345 INC 4.1147 V1 30.169
 RP 107.89 LAP 2.95 LOP 195.97 VP 37.148 GAP -12.94 AZP 92.87 TAL 150.90 TAP 285.02 RCA 91.73 APO 154.01 V2 35.123
 RC 42.436 GL 17.86 GP -5.01 ZAL 43.18 ZAP 8.75 ETS 36.03 ZAE 161.03 ETE 235.42 ZAC 104.15 ETC 167.87 CLP -7.18

PLANETOCENTRIC CONIC

C3 38.282 VHL 6.187 DLA 24.96 RAL 12.88 RAD 6568.5 VEL 12.635 PTH 2.29 VHP 8.632 DPA -3.96 RAP 11.38 ECC 1.6300
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 1 57 3298.21 -24.59 117.54 254.99 75.50 4 56 55 2698.2 -26.34 109.31
 90.00 0 0 41 4096.37 -3.30 166.20 246.50 61.86 1 8 57 3496.4 -7.04 159.51
 100.00 5 45 58 2962.85 -27.15 93.56 255.69 76.98 6 35 21 2362.9 -28.67 85.09
 100.00 0 59 21 3906.96 -1.00 151.00 245.22 60.12 2 4 28 3307.0 -4.97 144.46
 110.00 7 37 20 2614.46 -32.94 68.45 257.03 80.32 8 20 54 2014.5 -33.93 59.35
 110.00 1 24 29 3828.12 4.02 141.90 242.09 56.03 2 28 17 3228.1 -4.47 135.69

DIFFERENTIAL CORRECTIONS

TDE-1.2764 TRA-2.4517 TC3 -.1713 BAU .1090
 RDE -.2074 RRA .1704 RC3 -.1265 FAU .02482
 FDE 1.7406 FRA 2.4323 FC3 -.5613 BSP 9529
 BDE 1.2931 BRA 2.4577 BC3 .2129 FSP -775

MID-COURSE EXECUTION ACCURACY

SGT 2777.3 SGR 302.8 SG3 262.8
 RRT -.2088 RRF .2513 RTF -.9445
 SGB 2793.8 R23 -.0530 R13 .9447
 SG1 2778.1 SG2 296.1 THA 178.68

ORBIT DETERMINATION ACCURACY

ST 1400.5 SR 199.1 SS 1324.6
 CRT .6736 CRS .7652 CST .9910
 LSA 1928.7 MSA 188.3 SSA 15.0
 EL1 1407.0 EL2 146.5 ALF 5.53

LAUNCH DATE NOV 24 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 26.889 GAL 8.66 AZL 85.79 MCA 137.34 SMA 123.54 ECC .24494 INC 4.2136 V1 30.169
 RP 107.93 LAP 2.85 LOP 199.20 VP 37.216 GAP -12.21 AZP 93.10 TAL 150.73 TAP 288.06 RCA 93.28 APO 153.80 V2 35.111
 RC 42.394 GL 18.91 GP -5.59 ZAL 43.47 ZAP 10.42 ETS 33.57 ZAE 162.21 ETE 243.68 ZAC 105.83 ETC 168.16 CLP -8.81

PLANETOCENTRIC CONIC

C3 36.306 VHL 6.025 DLA 25.96 RAL 12.50 RAD 6568.4 VEL 12.557 PTH 2.28 VHP 8.228 DPA -3.84 RAP 13.07 ECC 1.5975
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 41 3 3350.82 -23.65 121.11 253.54 73.95 4 36 54 2750.8 -25.62 113.00
 90.00 0 18 29 4016.99 -5.84 161.74 246.17 62.24 1 25 26 3417.0 -9.51 154.98
 100.00 5 29 18 3001.83 -26.52 96.29 254.40 75.67 6 19 20 2401.8 -28.23 87.91
 100.00 1 12 55 3841.20 -3.23 147.39 244.74 60.27 2 16 57 3241.2 -7.16 140.81
 110.00 7 25 44 2637.53 -32.67 70.19 255.97 79.32 8 9 41 2037.5 -33.79 61.14
 110.00 1 32 59 3778.26 2.12 139.30 241.41 55.87 2 35 57 3178.3 -2.37 133.09

DIFFERENTIAL CORRECTIONS

TDE-1.2837 TRA-2.4013 TC3 -.1339 BAU .0919
 RDE -.1704 RRA .1719 RC3 -.1340 FAU .02680
 FDE 1.8784 FRA 2.5468 FC3 -.6391 BSP 10093
 BDE 1.2950 BRA 2.4074 BC3 .1894 FSP -868

MID-COURSE EXECUTION ACCURACY

SGT 2822.3 SGR 292.2 SG3 287.0
 RRT -.2883 RRF .3343 RTF -.9488
 SGB 2837.4 R23 -.0606 R13 .9489
 SG1 2823.6 SG2 279.7 THA 178.27

ORBIT DETERMINATION ACCURACY

ST 1438.9 SR 171.1 SS 1393.8
 CRT .6350 CRS .7314 CST .9910
 LSA 2002.3 MSA 182.5 SSA 14.2
 EL1 1443.1 EL2 131.8 ALF 4.35

LAUNCH DATE NOV 24 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 26.990 GAL 8.35 AZL 85.67 MCA 140.56 SMA 124.17 ECC .23701 INC 4.3252 V1 30.169
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.277 GAP -11.51 AZP 93.34 TAL 150.58 TAP 291.13 RCA 94.74 APO 153.60 V2 35.099
 RC 42.534 GL 20.03 GP -6.29 ZAL 43.82 ZAP 12.21 ETS 32.10 ZAE 162.91 ETE 252.77 ZAC 107.48 ETC 168.51 CLP -10.49

PLANETOCENTRIC CONIC

C3 34.577 VHL 5.880 DLA 27.00 RAL 12.05 RAD 6568.4 VEL 12.488 PTH 2.26 VHP 7.842 DPA -3.84 RAP 14.76 ECC 1.5690
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 44 3423.95 -22.18 125.97 251.86 71.94 4 10 48 2824.0 -24.45 118.03
 90.00 0 42 13 3919.19 -8.90 156.19 246.16 63.01 1 47 32 3319.2 -12.45 149.31
 100.00 5 9 22 3051.21 -25.64 99.70 253.02 74.09 6 0 13 2451.2 -27.58 91.43
 100.00 1 29 16 3767.16 -5.71 143.30 244.44 60.61 2 32 3 3167.2 -9.59 136.66
 110.00 7 12 41 2665.31 -32.30 72.27 254.89 78.14 7 57 7 2065.3 -33.59 63.28
 110.00 1 42 26 3725.83 .12 136.56 240.82 55.82 2 44 32 3125.8 -4.37 130.35

DIFFERENTIAL CORRECTIONS

TDE-1.4608 TRA-2.5153 TC3 -.2867 BAU .1482
 RDE -.1317 RRA .1767 RC3 -.1434 FAU .02440
 FDE 2.1388 FRA 2.7747 FC3 -.6110 BSP 6639
 BDE 1.4667 BRA 2.5215 BC3 .3206 FSP -767

MID-COURSE EXECUTION ACCURACY

SGT 3115.5 SGR 286.8 SG3 324.0
 RRT -.3269 RRF .4092 RTF -.9474
 SGB 3128.6 R23 -.1028 R13 .9477
 SG1 3116.9 SG2 270.9 THA 178.26

ORBIT DETERMINATION ACCURACY

ST 1645.3 SR 140.9 SS 1540.9
 CRT .5817 CRS .6695 CST .9934
 LSA 2252.3 MSA 168.8 SSA 15.3
 EL1 1647.4 EL2 114.5 ALF 2.87

LAUNCH DATE NOV 24 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 27.084 GAL 8.05 AZL 85.55 MCA 143.77 SMA 124.76 ECC .22953 INC 4.4532 V1 30.169
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.333 GAP -10.83 AZP 93.59 TAL 150.47 TAP 294.24 RCA 96.12 APO 153.40 V2 35.086
 RC 42.853 GL 21.24 GP -7.13 ZAL 44.28 ZAP 14.14 ETS 31.34 ZAE 163.05 ETE 262.06 ZAC 109.08 ETC 168.93 CLP -12.24

PLANETOCENTRIC CONIC

C3 33.038 VHL 5.748 DLA 28.10 RAL 11.49 RAD 6568.3 VEL 12.426 PTH 2.25 VHP 7.468 DPA -4.00 RAP 16.43 ECC 1.5437
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 26 17 3561.03 -19.03 134.78 249.35 68.63 3 25 38 2961.0 -21.77 127.18
 90.00 1 25 15 3759.15 -13.69 146.87 246.96 64.97 2 27 54 3159.1 -16.95 139.72
 100.00 4 43 45 3117.81 -24.32 104.21 251.38 72.06 5 35 43 2517.8 -26.54 96.11
 100.00 1 50 27 3677.59 -8.68 138.30 244.38 61.28 2 51 45 3077.6 -12.44 131.54
 110.00 6 57 34 2698.99 -31.80 74.77 253.74 76.74 7 42 33 2099.0 -33.29 65.87
 110.00 1 53 8 3669.18 -2.05 133.61 240.31 55.87 2 54 17 3069.2 -6.51 127.37

DIFFERENTIAL CORRECTIONS

TDE-1.3773 TRA-2.3616 TC3 -.1355 BAU .0899
 RDE -.0875 RRA .1878 RC3 -.1520 FAU .02931
 FDE 2.2646 FRA 2.8484 FC3 -.7681 BSP 9478
 BDE 1.3801 BRA 2.3691 BC3 .2036 FSP -994

MID-COURSE EXECUTION ACCURACY

SGT 3005.3 SGR 288.4 SG3 348.1
 RRT -.4840 RRF .5513 RTF -.9540
 SGB 3019.1 R23 -.0986 R13 .9544
 SG1 3008.5 SG2 252.1 THA 177.32

ORBIT DETERMINATION ACCURACY

ST 1589.4 SR 108.1 SS 1584.4
 CRT .4002 CRS .5094 CST .9923
 LSA 2240.4 MSA 169.0 SSA 13.2
 EL1 1589.9 EL2 99.0 ALF 1.57

LAUNCH DATE NOV 24 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 356.183

RL 147.68 LAL .00 LOL 61.78 VL 27.170 GAL 7.76 AZL 85.40 HCA 146.99 SMA 125.31 ECC .22257 INC 4.6022 V1 30.169
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.383 GAP -10.16 AZP 93.86 TAL 150.39 TAP 297.38 RCA 97.42 APO 153.21 V2 35.073
 RC 43.347 GL 22.55 GP -8.16 ZAL 44.83 ZAP 16.21 ETS 31.17 ZAE 162.60 ETE 270.82 ZAC 110.65 ETC 169.45 CLP -14.06

PLANETOCENTRIC CONIC

C3 31.733 VHL 5.633 DLA 29.29 RAL 10.85 RAD 6568.3 VEL 12.374 PTH 2.23 VHP 7.113 DPA -4.37 RAP 18.12 ECC 1.5222
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.20 0 49 2 3857.31 -17.28 155.76 247.19 65.98 1 53 20 3257.3 -20.38 148.39
 97.80 2 57 22 3442.58 -17.26 125.32 247.18 65.97 3 54 44 2842.6 -20.36 117.95
 100.00 4 5 7 3225.46 -21.88 111.27 249.21 69.11 4 58 52 2625.5 -24.53 103.47
 100.00 2 23 58 3549.65 -12.77 131.01 244.95 62.74 3 23 8 2949.7 -16.32 124.02
 110.00 6 39 45 2741.09 -31.10 77.86 252.54 75.04 7 25 26 2141.1 -32.84 69.07
 110.00 2 5 50 3606.78 -4.43 130.34 239.97 56.07 3 5 57 3006.8 -8.85 124.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4031 TRA-2.3099 TC3 -.1052 BAU .0822 SGT 3050.7 SGR 303.5 SG3 382.0 ST 1640.0 SR 81.5 SS 1682.1
 RDE -.0378 RRA .2047 RC3 -.1628 FAU .03147 RRT -.6118 RRF .6817 RTF -.9571 CRT -.0222 CRS .0985 CST .9925
 FDE 2.4857 FRA 2.9974 FC3 -.8587 BSP 9766 SGB 3065.7 R23 -.1169 R13 .9577 LSA 2344.9 MSA 165.0 SSA 12.2
 BOE 1.4036 BRA 2.3190 BC3 .1938 FSP -1102 SG1 3056.4 SG2 239.7 TMA 176.50 EL1 1640.0 EL2 81.5 ALF 179.94

LAUNCH DATE NOV 24 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 362.927

RL 147.68 LAL .00 LOL 61.78 VL 27.250 GAL 7.50 AZL 85.22 HCA 150.20 SMA 125.83 ECC .21609 INC 4.7794 V1 30.169
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.429 GAP -9.52 AZP 94.15 TAL 150.33 TAP 300.53 RCA 98.64 APO 153.02 V2 35.060
 RC 44.011 GL 23.99 GP -9.43 ZAL 45.49 ZAP 18.47 ETS 31.52 ZAE 161.60 ETE 278.37 ZAC 112.19 ETC 170.11 CLP -15.96

PLANETOCENTRIC CONIC

C3 30.660 VHL 5.537 DLA 30.57 RAL 10.09 RAD 6568.2 VEL 12.330 PTH 2.22 VHP 6.775 DPA -4.99 RAP 19.83 ECC 1.5046
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.98 0 13 50 3951.40 -18.23 163.22 246.21 65.03 1 19 42 3351.4 -21.45 155.84
 102.02 3 26 31 3331.19 -18.22 117.50 246.20 65.02 4 22 2 2731.2 -21.43 110.13
 77.98 0 13 50 3951.40 -18.23 163.22 246.21 65.03 1 19 42 3351.4 -21.45 155.84
 102.02 3 26 31 3331.19 -18.22 117.50 246.20 65.02 4 22 2 2731.2 -21.43 110.13
 110.00 6 17 47 2795.75 -30.07 81.78 251.18 72.93 7 4 23 2195.7 -32.11 73.16
 110.00 2 21 45 3534.83 -7.15 126.55 239.87 56.48 3 20 40 2934.8 -11.51 120.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4332 TRA-2.2536 TC3 -.0739 BAU .0782 SGT 3088.9 SGR 338.3 SG3 419.0 ST 1691.0 SR 85.7 SS 1789.5
 RDE .0206 RRA .2295 RC3 -.1758 FAU .03380 RRT -.7299 RRF .7992 RTF -.9600 CRT -.6825 CRS -.5911 CST .9927
 FDE 2.7425 FRA 3.1523 FC3 -.9545 BSP 10044 SGB 3107.4 R23 -.1383 R13 .9609 LSA 2458.2 MSA 162.1 SSA 11.0
 BOE 1.4334 BRA 2.2653 BC3 .1907 FSP -1221 SG1 3098.8 SG2 230.5 TMA 175.40 EL1 1692.0 EL2 62.6 ALF 178.02

LAUNCH DATE NOV 24 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 369.654

RL 147.68 LAL .00 LOL 61.78 VL 27.324 GAL 7.26 AZL 85.01 HCA 153.41 SMA 126.31 ECC .21007 INC 4.9948 V1 30.169
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.470 GAP -8.90 AZP 94.47 TAL 150.30 TAP 303.70 RCA 99.77 APO 152.84 V2 35.047
 RC 44.838 GL 25.60 GP -11.03 ZAL 46.28 ZAP 20.97 ETS 32.37 ZAE 160.08 ETE 284.30 ZAC 113.68 ETC 170.96 CLP -17.94

PLANETOCENTRIC CONIC

C3 29.839 VHL 5.463 DLA 31.98 RAL 9.19 RAD 6568.2 VEL 12.297 PTH 2.21 VHP 6.458 DPA -5.96 RAP 21.60 ECC 1.4911
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.48 23 41 38 4022.26 -19.22 169.06 245.26 63.94 24 48 41 3422.3 -22.57 161.70
 105.52 3 47 35 3246.71 -19.21 111.62 245.26 63.93 4 41 42 2646.7 -22.56 104.26
 74.48 23 41 38 4022.26 -19.22 169.06 245.26 63.94 24 48 41 3422.3 -22.57 161.70
 105.52 3 47 35 3246.71 -19.21 111.62 245.26 63.93 4 41 42 2646.7 -22.56 104.26
 110.00 5 48 35 2872.14 -28.42 87.12 249.52 70.16 6 36 27 2272.1 -30.86 78.76
 110.00 2 43 45 3444.83 -10.50 121.73 240.19 57.28 3 41 10 2844.8 -14.74 115.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4751 TRA-2.1976 TC3 -.0501 BAU .0790 SGT 3127.5 SGR 400.4 SG3 459.7 ST 1748.8 SR 138.2 SS 1911.3
 RDE .0925 RRA .2647 RC3 -.1916 FAU .03602 RRT -.8208 RRF .8871 RTF -.9626 CRT -.9524 CRS -.9108 CST .9930
 FDE 3.0480 FRA 3.3136 FC3 -1.0450 BSP 10185 SGB 3153.0 R23 -.1624 R13 .9638 LSA 2589.3 MSA 160.4 SSA 9.7
 BOE 1.4780 BRA 2.2135 BC3 .1980 FSP -1342 SG1 3144.8 SG2 227.4 TMA 173.97 EL1 1753.8 EL2 42.0 ALF 175.69

LAUNCH DATE NOV 24 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 376.362

RL 147.68 LAL .00 LOL 61.78 VL 27.391 GAL 7.03 AZL 84.74 HCA 156.61 SMA 126.75 ECC .20450 INC 5.2643 V1 30.169
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.507 GAP -8.29 AZP 94.83 TAL 150.29 TAP 306.90 RCA 100.83 APO 152.68 V2 35.033
 RC 45.818 GL 27.43 GP -13.09 ZAL 47.25 ZAP 23.77 ETS 33.74 ZAE 158.04 ETE 288.49 ZAC 115.14 ETC 172.11 CLP -20.02

PLANETOCENTRIC CONIC

C3 29.315 VHL 5.414 DLA 33.57 RAL 8.10 RAD 6568.2 VEL 12.276 PTH 2.21 VHP 6.167 DPA -7.38 RAP 23.46 ECC 1.4824
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.16 23 15 50 4084.23 -20.25 174.37 244.36 62.63 24 23 55 3484.2 -23.75 167.02
 108.84 4 4 40 3175.87 -20.23 106.73 244.35 62.62 4 57 36 2575.9 -23.73 99.39
 71.16 23 15 50 4084.23 -20.25 174.37 244.36 62.63 24 23 55 3484.2 -23.75 167.02
 108.84 4 4 40 3175.87 -20.23 106.73 244.35 62.62 4 57 36 2575.9 -23.73 99.39
 110.00 5 0 36 3004.70 -25.04 95.94 246.86 65.94 5 50 41 2404.7 -28.07 88.07
 110.00 3 23 1 3303.39 -15.58 113.92 241.63 59.18 4 18 4 2703.4 -19.55 107.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.5215 TRA-2.1313 TC3 -.0217 BAU .0833 SGT 3149.7 SGR 498.7 SG3 502.3 ST 1803.3 SR 229.1 SS 2042.6
 RDE .1847 RRA .3130 RC3 -.2115 FAU .03841 RRT -.8821 RRF .9426 RTF -.9650 CRT -.9963 CRS -.9805 CST .9933
 FDE 3.4013 FRA 3.4625 FC3 -1.1343 BSP 10423 SGB 3189.0 R23 -.1842 R13 .9669 LSA 2729.6 MSA 160.4 SSA 8.3
 BOE 1.5327 BRA 2.1541 BC3 .2126 FSP -1479 SG1 3180.5 SG2 232.7 TMA 172.01 EL1 1817.7 EL2 19.6 ALF 172.79

LAUNCH DATE NOV 24 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 27.453 GAL 6.81 AZL 84.39 MCA 159.81 SMA 127.16 ECC .19937 INC 5.6136 V1 30.169
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.540 GAP -7.70 AZP 95.27 TAL 150.29 TAP 310.11 RCA 101.81 APO 152.52 V2 35.020
 RC 46.944 GL 29.58 GP -15.82 ZAL 48.46 ZAP 27.02 ETS 35.71 ZAE 155.38 ETE 290.99 ZAC 116.56 ETC 173.68 CLP -22.19

DISTANCE 383.051

PLANETOCENTRIC CONIC

C3 29.173 VHL 5.401 DLA 35.42 RAL 6.74 RAD 6568.2 VEL 12.270 PTH 2.21 VHP 5.909 DPA -9.46 RAP 25.52 ECC 1.4801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.78 22 50 24 4143.75 -21.30 179.64 243.50 61.01 23 59 28 3543.7 -25.00 172.33
 112.22 4 19 15 3113.92 -21.29 102.48 243.50 61.00 5 11 8 2513.9 -24.99 95.18
 67.78 22 50 24 4143.75 -21.30 179.64 243.50 61.01 23 59 28 3543.7 -25.00 172.33
 112.22 4 19 15 3113.92 -21.29 102.48 243.50 61.00 5 11 8 2513.9 -24.99 95.18
 67.78 22 50 24 4143.75 -21.30 179.64 243.50 61.01 23 59 28 3543.7 -25.00 172.33
 112.22 4 19 15 3113.92 -21.29 102.48 243.50 61.00 5 11 8 2513.9 -24.99 95.18

DIFFERENTIAL CORRECTIONS

TDE-1.5868 TRA-2.0622 TC3 -.0019 BAU .0920
 RDE .3101 RRA .3794 RC3 -.2358 FAU .04036
 FDE 3.8205 FRA 3.5889 FC3-1.1977 BSP 10579
 BOE 1.6168 BRA 2.0968 BC3 .2358 FSP -1613

MID-COURSE EXECUTION ACCURACY

SGT 3168.5 SGR 645.7 SG3 545.9
 RRT -.9183 RRF .9730 RTF -.9670
 SGB 3233.6 R23 -.2004 R13 .9701
 SG1 3223.8 SG2 251.3 TMA 169.33

ORBIT DETERMINATION ACCURACY

ST 1866.0 SR 360.8 SS 2189.6
 CRT -.9995 CRS -.9959 CST .9935
 LSA 2894.8 MSA 162.0 SSA 6.9
 EL1 1900.5 EL2 11.1 ALF 169.06

LAUNCH DATE NOV 24 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 27.509 GAL 6.62 AZL 83.91 MCA 163.01 SMA 127.54 ECC .19465 INC 6.0880 V1 30.169
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.568 GAP -7.12 AZP 95.82 TAL 150.31 TAP 313.33 RCA 102.72 APO 152.37 V2 35.007
 RC 48.205 GL 32.20 GP -19.53 ZAL 50.02 ZAP 30.90 ETS 38.39 ZAE 151.86 ETE 291.96 ZAC 117.93 ETC 175.90 CLP -24.44

DISTANCE 389.720

PLANETOCENTRIC CONIC

C3 29.584 VHL 5.439 DLA 37.62 RAL 4.97 RAD 6568.2 VEL 12.287 PTH 2.21 VHP 5.703 DPA -12.47 RAP 27.92 ECC 1.4869
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.12 22 23 46 4205.18 -22.38 185.25 242.70 58.93 23 33 52 3605.2 -26.32 178.03
 115.88 4 31 45 3059.49 -22.36 98.77 242.69 58.92 5 22 44 2459.5 -26.31 91.55
 64.12 22 23 46 4205.18 -22.38 185.25 242.70 58.93 23 33 52 3605.2 -26.32 178.03
 115.88 4 31 45 3059.49 -22.36 98.77 242.69 58.92 5 22 44 2459.5 -26.31 91.55
 64.12 22 23 46 4205.18 -22.38 185.25 242.70 58.93 23 33 52 3605.2 -26.32 178.03
 115.88 4 31 45 3059.49 -22.36 98.77 242.69 58.92 5 22 44 2459.5 -26.31 91.55

DIFFERENTIAL CORRECTIONS

TDE-1.6781 TRA-1.9854 TC3 .0116 BAU .1049
 RDE .4909 RRA .4690 RC3 -.2650 FAU .04154
 FDE 4.3055 FRA 3.6516 FC3-1.2157 BSP 10760
 BOE 1.7485 BRA 2.0401 BC3 .2653 FSP -1735

MID-COURSE EXECUTION ACCURACY

SGT 3177.7 SGR 860.0 SG3 585.4
 RRT -.9386 RRF .9878 RTF -.9688
 SGB 3292.1 R23 -.2058 R13 .9737
 SG1 3279.5 SG2 287.6 TMA 165.63

ORBIT DETERMINATION ACCURACY

ST 1937.1 SR 550.0 SS 2347.5
 CRT -.9971 CRS -.9993 CST .9939
 LSA 3088.5 MSA 165.5 SSA 5.4
 EL1 2013.3 EL2 40.0 ALF 164.19

LAUNCH DATE NOV 24 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 27.560 GAL 6.44 AZL 83.23 MCA 166.21 SMA 127.89 ECC .19033 INC 6.7741 V1 30.169
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.594 GAP -6.56 AZP 96.58 TAL 150.34 TAP 316.55 RCA 103.55 APO 152.23 V2 34.994
 RC 49.590 GL 35.51 GP -24.77 ZAL 52.12 ZAP 35.81 ETS 41.95 ZAE 146.98 ETE 291.68 ZAC 119.19 ETC 179.19 CLP -26.73

DISTANCE 396.366

PLANETOCENTRIC CONIC

C3 30.926 VHL 5.561 DLA 40.37 RAL 2.52 RAD 6568.2 VEL 12.341 PTH 2.23 VHP 5.587 DPA -16.88 RAP 30.97 ECC 1.5090
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.94 21 54 0 4273.65 -23.40 191.67 241.93 56.12 23 5 13 3673.7 -27.68 184.59
 120.06 4 42 1 3013.28 -23.39 95.62 241.93 56.11 5 32 14 2413.3 -27.66 88.55
 59.94 21 54 0 4273.65 -23.40 191.67 241.93 56.12 23 5 13 3673.7 -27.68 184.59
 120.06 4 42 1 3013.28 -23.39 95.62 241.93 56.11 5 32 14 2413.3 -27.66 88.55
 59.94 21 54 0 4273.65 -23.40 191.67 241.93 56.12 23 5 13 3673.7 -27.68 184.59
 120.06 4 42 1 3013.28 -23.39 95.62 241.93 56.11 5 32 14 2413.3 -27.66 88.55

DIFFERENTIAL CORRECTIONS

TDE-1.8196 TRA-1.8996 TC3 .0169 BAU .1228
 RDE .7712 RRA .5872 RC3 -.2965 FAU .04103
 FDE 4.8410 FRA 3.5782 FC3-1.1487 BSP 11053
 BOE 1.9763 BRA 1.9883 BC3 .2970 FSP -1821

MID-COURSE EXECUTION ACCURACY

SGT 3180.1 SGR 1170.7 SG3 610.5
 RRT -.9496 RRF .9945 RTF -.9704
 SGB 3368.8 R23 -.1976 R13 .9782
 SG1 3371.1 SG2 346.1 TMA 160.52

ORBIT DETERMINATION ACCURACY

ST 2027.0 SR 829.5 SS 2507.5
 CRT -.9951 CRS-1.0000 CST .9943
 LSA 3324.9 MSA 170.9 SSA 4.0
 EL1 2188.8 EL2 76.2 ALF 157.81

LAUNCH DATE NOV 24 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 27.607 GAL 6.27 AZL 82.14 MCA 169.40 SMA 128.21 ECC .18640 INC 7.8628 V1 30.169
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.616 GAP -6.02 AZP 97.73 TAL 150.38 TAP 319.78 RCA 104.31 APO 152.11 V2 34.980
 RC 51.091 GL 39.96 GP 32.49 ZAL 55.13 ZAP 42.40 ETS 46.65 ZAE 139.78 ETE 290.67 ZAC 120.16 ETC 184.34 CLP -28.90

DISTANCE 402.988

PLANETOCENTRIC CONIC

C3 34.160 VHL 5.845 DLA 43.92 RAL 358.82 RAD 6568.3 VEL 12.471 PTH 2.26 VHP 5.655 DPA -23.48 RAP 35.35 ECC 1.5622
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.90 21 18 3 4356.63 -24.13 199.51 241.12 52.12 22 30 40 3756.6 -28.87 192.72
 125.10 4 48 28 2980.40 -24.12 93.32 241.11 52.11 5 38 9 2380.4 -28.86 86.54
 54.90 21 18 3 4356.63 -24.13 199.51 241.12 52.12 22 30 40 3756.6 -28.87 192.72
 125.10 4 48 28 2980.40 -24.12 93.32 241.11 52.11 5 38 9 2380.4 -28.86 86.54
 54.90 21 18 3 4356.63 -24.13 199.51 241.12 52.12 22 30 40 3756.6 -28.87 192.72
 125.10 4 48 28 2980.40 -24.12 93.32 241.11 52.11 5 38 9 2380.4 -28.86 86.54

DIFFERENTIAL CORRECTIONS

TDE-2.0722 TRA-1.8027 TC3 .0094 BAU .1451
 RDE 1.2445 RRA .7300 RC3 -.3176 FAU .03678
 FDE 5.3423 FRA 3.2319 FC3 -.9321 BSP 11598
 BOE 2.4172 BRA 1.9449 BC3 .3178 FSP -1804

MID-COURSE EXECUTION ACCURACY

SGT 3185.4 SGR 1616.6 SG3 598.4
 RRT -.9555 RRF .9972 RTF -.9720
 SGB 3572.1 R23 -.1736 R13 .9841
 SG1 3546.3 SG2 428.5 TMA 153.72

ORBIT DETERMINATION ACCURACY

ST 2160.7 SR 1255.9 SS 2638.8
 CRT -.9941 CRS-1.0000 CST .9949
 LSA 3630.1 MSA 177.9 SSA 2.7
 EL1 2496.4 EL2 117.5 ALF 149.90

LAUNCH DATE NOV 24 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 409.581

RL 147.68 LAL .00 LOL 61.78 VL 27.649 GAL 6.13 AZL 80.13 MCA 172.58 SMA 128.50 ECC .18286 INC 9.8709 V1 30.169
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.634 GAP -5.49 AZP 99.79 TAL 150.41 TAP 322.99 RCA 105.00 APO 151.99 V2 34.967
 RC 52.697 GL 46.33 GP -44.31 ZAL 59.82 ZAP 51.88 ETS 53.04 ZAE 128.54 ETE 290.25 ZAC 120.29 ETC 192.98 CLP -30.37

PLANETOCENTRIC CONIC

C3 42.445 VHL 6.515 DLA 48.67 RAL 352.47 RAD 6568.6 VEL 12.799 PTH 2.33 VHP 6.203 DPA -33.40 RAP 42.83 ECC 1.6985
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.61 20 29 49 4469.78 -23.71 209.77 239.76 46.16 21 44 18 3869.8 -29.11 203.59
 131.39 4 45 59 2976.93 -23.70 92.60 239.75 46.15 5 35 36 2376.9 -29.10 86.42
 48.61 20 29 49 4469.78 -23.71 209.77 239.76 46.16 21 44 18 3869.8 -29.11 203.59
 131.39 4 45 59 2976.93 -23.70 92.60 239.75 46.15 5 35 36 2376.9 -29.10 86.42
 48.61 20 29 49 4469.78 -23.71 209.77 239.76 46.16 21 44 18 3869.8 -29.11 203.59
 131.39 4 45 59 2976.93 -23.70 92.60 239.75 46.15 5 35 36 2376.9 -29.10 86.42

DIFFERENTIAL CORRECTIONS

TOE-2.6444 TRA-1.6987 TC3 -.0215 BAU .1626
 ROE 2.1267 RRA .8435 RC3 -.2858 FAU .02503
 FOE 5.5230 FRA 2.4108 FC3 -.5106 BSP 12548
 BOE 3.3935 BRA 1.8966 BC3 .2866 FSP -1545

MID-COURSE EXECUTION ACCURACY

SGT 3244.4 SGR 2213.2 SG3 506.3
 RRT -.9581 RRF .9976 RTF -.9751
 SGB 3927.4 R23 -.1316 R13 .9911
 SGI 3891.7 SG2 528.3 TMA 146.12

ORBIT DETERMINATION ACCURACY

ST 2422.6 SR 1900.5 SS 2653.6
 CRT -.9944 CRS -.9998 CST .9961
 LSA 4060.6 MSA 185.2 SSA 1.4
 EL1 3075.0 EL2 158.2 ALF 141.92

LAUNCH DATE NOV 24 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 416.126

RL 147.68 LAL .00 LOL 61.78 VL 27.687 GAL 6.00 AZL 75.16 MCA 175.73 SMA 128.76 ECC .17972 INC14.8405 V1 30.169
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.650 GAP -4.98 AZP 104.80 TAL 150.43 TAP 326.16 RCA 105.62 APO 151.90 V2 34.954
 RC 54.398 GL 55.80 GP -62.48 ZAL 67.82 ZAP 65.72 ETS 65.53 ZAE 110.59 ETE 296.59 ZAC 118.39 ETC 211.20 CLP -27.13

PLANETOCENTRIC CONIC

C3 72.701 VHL 8.526 DLA 54.37 RAL 339.45 RAD 6569.4 VEL 13.930 PTH 2.54 VHP 8.495 DPA -47.05 RAP 59.43 ECC 2.1965
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.43 19 15 30 4652.81 -18.83 223.16 235.32 37.98 20 33 11 4052.8 -25.05 218.16
 138.57 4 16 17 3057.86 -18.81 95.26 235.30 37.98 5 7 15 2457.9 -25.04 90.26
 41.43 19 15 30 4652.81 -18.83 223.16 235.32 37.98 20 33 11 4052.8 -25.05 218.16
 138.57 4 16 17 3057.86 -18.81 95.26 235.30 37.98 5 7 15 2457.9 -25.04 90.26
 41.43 19 15 30 4652.81 -18.83 223.16 235.32 37.98 20 33 11 4052.8 -25.05 218.16
 138.57 4 16 17 3057.86 -18.81 95.26 235.30 37.98 5 7 15 2457.9 -25.04 90.26

DIFFERENTIAL CORRECTIONS

TOE-4.6840 TRA-1.5713 TC3 -.0864 BAU .1448
 ROE 3.6866 RRA .5642 RC3 -.1214 FAU .00372
 FOE 4.7037 FRA 1.0498 FC3 -.0442 BSP 14473
 BOE 5.9608 BRA 1.6696 BC3 .1489 FSP -956

MID-COURSE EXECUTION ACCURACY

SGT 3635.2 SGR 2569.8 SG3 292.5
 RRT -.9578 RRF .9924 RTF -.9858
 SGB 4451.8 R23 -.0725 R13 .9973
 SGI 4409.9 SG2 609.2 TMA 145.14

ORBIT DETERMINATION ACCURACY

ST 3194.2 SR 2485.0 SS 2335.2
 CRT -.9957 CRS -.9994 CST .9984
 LSA 4668.7 MSA 186.7 SSA .6
 EL1 4042.9 EL2 181.4 ALF 142.15

LAUNCH DATE NOV 24 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 422.417

RL 147.68 LAL .00 LOL 61.78 VL 27.721 GAL 5.93 AZL 45.81 MCA 178.69 SMA 128.99 ECC .17733 INC44.1869 V1 30.169
 RP 108.45 LAP .91 LOP 240.85 VP 37.664 GAP -4.53 AZP 134.18 TAL 150.29 TAP 328.99 RCA 106.12 APO 151.87 V2 34.942
 RC 56.186 GL 60.50 GP -73.45 ZAL 81.70 ZAP 82.83 ETS 161.81 ZAE 78.74 ETE 28.42 ZAC 116.67 ETC 320.40 CLP 64.01

PLANETOCENTRIC CONIC

C3 487.554 VHL 22.081 DLA 49.51 RAL 318.08 RAD 6572.3 VEL 24.675 PTH 3.33 VHP 25.649 DPA -50.18 RAP 109.85 ECC 9.0239
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.52 18 9 4 4914.77 -2.03 229.80 226.36 40.52 19 30 59 4314.8 -8.10 224.98
 132.48 2 32 25 3404.63 -2.02 110.90 226.34 40.52 3 29 9 2804.6 -8.08 106.07
 47.52 18 9 4 4914.77 -2.03 229.80 226.36 40.52 19 30 59 4314.8 -8.10 224.98
 132.48 2 32 25 3404.63 -2.02 110.90 226.34 40.52 3 29 9 2804.6 -8.08 106.07
 47.52 18 9 4 4914.77 -2.03 229.80 226.36 40.52 19 30 59 4314.8 -8.10 224.98
 132.48 2 32 25 3404.63 -2.02 110.90 226.34 40.52 3 29 9 2804.6 -8.08 106.07

DIFFERENTIAL CORRECTIONS

TOE-8.2527 TRA .9831 TC3 -.1727 BAU 2.0579
 RO-14.8476 RRA-1.2349 RC3 -.2643 FAU-.04077
 FOE 3.7165 FRA .1176 FC3 .0724 BSP 15907
 BOE16.9871 BRA 1.5784 BC3 .3157 FSP -315

MID-COURSE EXECUTION ACCURACY

SGT 2306.9 SGR 4055.8 SG3 87.9
 RRT .9562 RRF -.9968 RTF -.9762
 SGB 4666.0 R23 .0080 R13 -.9999
 SGI 4628.3 SG2 591.6 TMA 60.94

ORBIT DETERMINATION ACCURACY

ST 2144.8 SR 3855.7 SS 2137.5
 CRT .9956 CRS .9997 CST .9976
 LSA 4899.5 MSA 175.0 SSA 1.0
 EL1 4408.7 EL2 175.0 ALF 60.97

LAUNCH DATE NOV 24 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 429.332

RL 147.68 LAL .00 LOL 61.78 VL 27.751 GAL 5.72 AZL 107.96 MCA 182.36 SMA 129.20 ECC .17378 INC17.9572 V1 30.169
 RP 108.49 LAP .73 LOP 244.03 VP 37.674 GAP -3.90 AZP 72.06 TAL 150.70 TAP 333.07 RCA 106.75 APO 151.66 V2 34.929
 RC 58.051 GL -59.69 GP 78.46 ZAL 71.73 ZAP 78.47 ETS 287.10 ZAE 101.70 ETE 53.31 ZAC 86.39 ETC 127.73 CLP -2.07

PLANETOCENTRIC CONIC

C3 97.248 VHL 9.861 DLA -49.16 RAL 40.58 RAD 6569.9 VEL 14.785 PTH 2.67 VHP 13.910 DPA 73.62 RAP 302.24 ECC 2.6005
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.97 11 41 29 2028.72 14.19 50.60 297.94 137.58 12 15 18 1428.7 20.02 45.28
 132.03 19 58 10 5813.19 14.20 270.29 297.96 137.58 21 35 3 5213.2 20.03 264.97
 47.97 11 41 29 2028.72 14.19 50.60 297.94 137.58 12 15 18 1428.7 20.02 45.28
 132.03 19 58 10 5813.19 14.20 270.29 297.96 137.58 21 35 3 5213.2 20.03 264.97
 47.97 11 41 29 2028.72 14.19 50.60 297.94 137.58 12 15 18 1428.7 20.02 45.28
 132.03 19 58 10 5813.19 14.20 270.29 297.96 137.58 21 35 3 5213.2 20.03 264.97

DIFFERENTIAL CORRECTIONS

TOE-1.4410 TRA-4.5847 TC3 -.1436 BAU .1907
 ROE .2401 RRA-2.9597 RC3 .0301 FAU-.00273
 FOE .3364 FRA 1.9714 FC3 .0243 BSP 14726
 BOE 1.4609 BRA 5.4571 BC3 .1467 FSP -465

MID-COURSE EXECUTION ACCURACY

SGT 4168.1 SGR 2634.0 SG3 152.3
 RRT .9635 RRF -.9853 RTF -.9950
 SGB 4930.6 R23 -.0237 R13 -.9997
 SGI 4893.9 SG2 600.8 TMA 31.87

ORBIT DETERMINATION ACCURACY

ST 1481.3 SR 801.1 SS 673.8
 CRT .7139 CRS .8622 CST .9702
 LSA 1737.0 MSA 522.5 SSA .5
 EL1 1602.2 EL2 518.7 ALF 23.75

LAUNCH DATE NOV 24 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 435.945

RL 147.68 LAL .00 LOL 61.78 VL 27.778 GAL 5.65 AZL 95.72 MCA 185.45 SMA 129.39 ECC .17175 INC 5.7174 V1 30.169
 RP 108.53 LAP .54 LOP 247.21 VP 37.683 GAP -3.44 AZP 84.31 TAL 150.66 TAP 336.11 RCA 107.17 APO 151.61 V2 34.917
 RC 59.985 GL -34.17 GP 60.60 ZAL 51.38 ZAP 68.62 ETS 319.98 ZAE 122.58 ETE 78.51 ZAC 91.27 ETC 151.32 CLP -42.04

PLANETOCENTRIC CONIC

C3 24.033 VHL 4.902 DLA -23.49 RAL 32.48 RAD 6568.0 VEL 12.059 PTH 2.16 VHP 6.786 DPA 58.80 RAP 342.42 ECC 1.3955
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 12 53 1 1418.89 4.37 355.37 258.10 118.00 13 16 40 818.9 8.09 348.66
 90.00 17 42 3 5742.71 27.26 272.51 265.76 97.99 19 17 46 5142.7 28.08 263.94
 100.00 13 55 49 1216.18 2.58 339.48 257.11 119.79 14 16 5 616.2 6.53 332.92
 100.00 19 21 56 5420.65 29.28 249.10 266.05 96.28 20 52 17 4820.7 29.85 240.35
 110.00 14 26 50 1118.92 -1.53 329.54 254.54 124.15 14 45 29 518.9 2.96 323.34
 110.00 21 7 25 5090.67 34.13 224.46 266.47 92.12 22 32 15 4490.7 34.04 215.22

DIFFERENTIAL CORRECTIONS

TDE -.6634 TRA-1.7957 TC3 .0440 BAU .2815
 RDE -.4190 RRA-2.9624 RC3 .8751 FAU .03156
 FDE .6724 FRA 3.7981 FC3-1.1367 BSP 14748
 BDE .7847 BRA 3.4642 BC3 .8762 FSP -1392

MID-COURSE EXECUTION ACCURACY

SGT 2416.5 SGR 3902.4 SG3 434.5
 RRT .9603 RRF -.9995 RTF -.9656
 SGB 4590.0 R23 -.0564 R13 -.9981
 SG1 4553.5 SG2 577.7 THA 58.70

ORBIT DETERMINATION ACCURACY

ST 1035.6 SR 1234.2 SS 968.2
 CRT .9054 CRS .9961 CST .9392
 LSA 1846.2 MSA 352.7 SSA 2.5
 EL1 1573.8 EL2 344.8 ALF 50.51

LAUNCH DATE NOV 24 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 442.416

RL 147.68 LAL .00 LOL 61.78 VL 27.801 GAL 5.58 AZL 92.38 MCA 188.61 SMA 129.55 ECC .16987 INC 2.3747 V1 30.169
 RP 108.57 LAP .36 LOP 250.39 VP 37.689 GAP -2.97 AZP 87.65 TAL 150.65 TAP 339.27 RCA 107.55 APO 151.56 V2 34.906
 RC 61.981 GL -16.23 GP 48.35 ZAL 42.45 ZAP 64.53 ETS 330.35 ZAE 134.80 ETE .81.62 ZAC 95.26 ETC 154.38 CLP -49.68

PLANETOCENTRIC CONIC

C3 16.844 VHL 4.104 DLA -6.50 RAL 26.36 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 5.024 DPA 48.07 RAP 353.33 ECC 1.2772
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 42 49 1971.24 -13.02 26.63 243.98 115.37 10 15 40 1371.2 -9.50 19.72
 90.00 20 3 23 5021.15 23.15 221.00 246.67 73.23 21 27 4 4421.2 20.64 213.23
 100.00 11 1 4 1718.82 -14.00 7.58 243.49 116.69 11 29 42 1118.8 -10.30 .74
 100.00 21 27 50 4748.81 24.19 200.62 246.31 71.88 22 46 58 4148.8 21.49 192.86
 110.00 12 2 13 1527.33 -16.59 351.59 242.03 120.33 12 27 41 927.3 -12.44 344.94
 110.00 22 43 9 4513.06 26.96 181.60 245.19 68.14 23 58 22 3913.1 23.75 173.91

DIFFERENTIAL CORRECTIONS

TDE -.5240 TRA-1.3428 TC3 .0182 BAU .2743
 RDE -.5716 RRA-2.4078 RC3 1.2179 FAU .05841
 FDE 1.5493 FRA 5.7214 FC3-3.0021 BSP 13208
 BDE .7754 BRA 2.7569 BC3 1.2180 FSP -2334

MID-COURSE EXECUTION ACCURACY

SGT 2023.7 SGR 3616.9 SG3 750.1
 RRT .9539 RRF -.9995 RTF -.9555
 SGB 4144.5 R23 -.0640 R13 -.9975
 SG1 4109.9 SG2 534.5 THA 61.38

ORBIT DETERMINATION ACCURACY

ST 924.9 SR 1291.4 SS 1406.6
 CRT .9697 CRS .9979 CST .9834
 LSA 2113.6 MSA 186.1 SSA 5.7
 EL1 1577.7 EL2 185.1 ALF 54.66

LAUNCH DATE NOV 24 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 448.881

RL 147.68 LAL .00 LOL 61.78 VL 27.821 GAL 5.52 AZL 90.82 MCA 191.78 SMA 129.70 ECC .16827 INC .8205 V1 30.169
 RP 108.60 LAP .17 LOP 253.57 VP 37.693 GAP -2.51 AZP 89.20 TAL 150.64 TAP 342.43 RCA 107.87 APO 151.52 V2 34.894
 RC 64.032 GL -5.83 GP 40.35 ZAL 39.90 ZAP 64.24 ETS 338.05 ZAE 142.71 ETE 84.51 ZAC 97.40 ETC 156.44 CLP -55.22

PLANETOCENTRIC CONIC

C3 15.306 VHL 3.912 DLA 3.25 RAL 22.74 RAD 6567.6 VEL 11.691 PTH 2.06 VHP 4.254 DPA 40.53 RAP 357.74 ECC 1.2519
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 15 31 2253.18 -20.49 43.94 240.59 109.99 8 53 4 1653.2 -17.58 36.47
 90.00 21 1 47 4695.66 15.31 200.37 239.32 65.89 22 20 3 4095.7 11.93 193.33
 100.00 9 38 23 1985.91 -21.45 23.90 240.20 111.33 10 11 29 1385.9 -18.37 16.46
 100.00 22 21 37 4438.16 16.25 180.99 238.87 64.56 23 35 35 3838.2 12.69 174.00
 110.00 10 50 6 1761.42 -24.04 5.65 239.00 115.07 11 19 28 1161.4 -20.46 358.34
 110.00 23 26 23 4235.41 18.75 164.25 237.52 60.88 24 36 58 3635.4 14.72 157.44

DIFFERENTIAL CORRECTIONS

TDE -.4487 TRA-1.0543 TC3 -.0684 BAU .2529
 RDE -.6437 RRA-2.0561 RC3 1.2339 FAU .08027
 FDE 2.5946 FRA 7.2888 FC3-4.5403 BSP 11935
 BDE .7846 BRA 2.3106 BC3 1.2358 FSP -3190

MID-COURSE EXECUTION ACCURACY

SGT 1681.1 SGR 3304.1 SG3 1027.3
 RRT .9419 RRF -.9993 RTF -.9426
 SGB 3707.2 R23 -.0637 R13 -.9973
 SG1 3672.2 SG2 508.0 THA 63.86

ORBIT DETERMINATION ACCURACY

ST 804.3 SR 1307.0 SS 1828.2
 CRT .9885 CRS .9980 CST .9960
 LSA 2384.5 MSA 107.0 SSA 10.7
 EL1 1531.1 EL2 104.0 ALF 58.52

LAUNCH DATE NOV 24 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 455.330

RL 147.68 LAL .00 LOL 61.78 VL 27.838 GAL 5.48 AZL 89.92 MCA 194.96 SMA 129.82 ECC .16694 INC .0723 V1 30.169
 RP 108.64 LAP -.02 LOP 256.74 VP 37.696 GAP -2.05 AZP 90.08 TAL 150.62 TAP 345.57 RCA 108.15 APO 151.49 V2 34.883
 RC 66.131 GL .57 GP 34.85 ZAL 39.49 ZAP 66.17 ETS 344.08 ZAE 148.08 ETE 88.85 ZAC 98.20 ETC 158.23 CLP -60.51

PLANETOCENTRIC CONIC

C3 14.916 VHL 3.862 DLA 9.21 RAL 20.41 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 3.816 DPA 34.95 RAP 359.53 ECC 1.2455
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 20 30 2436.23 -24.26 56.03 239.65 105.08 8 1 6 1836.2 -21.95 48.11
 90.00 21 38 13 4501.04 9.60 188.94 236.20 63.23 22 53 14 3901.0 5.93 182.18
 100.00 8 46 20 2159.35 -25.30 35.34 239.32 106.48 9 22 20 1559.4 -22.79 27.44
 100.00 22 55 4 4252.85 10.55 170.21 235.70 61.87 24 5 56 3652.8 6.71 163.53
 110.00 10 4 50 1913.70 -28.06 15.66 238.29 110.38 10 36 44 1313.7 -25.02 7.80
 110.00 23 53 3 4071.57 13.07 154.94 234.21 58.13 25 0 54 3471.6 8.77 148.49

DIFFERENTIAL CORRECTIONS

TDE -.3610 TRA -.7934 TC3 -.1874 BAU .2357
 RDE -.6689 RRA-1.8158 RC3 1.1670 FAU .09803
 FDE 3.6344 FRA 8.5643 FC3-5.6900 BSP 10744
 BDE .7601 BRA 1.9816 BC3 1.1820 FSP -3935

MID-COURSE EXECUTION ACCURACY

SGT 1315.1 SGR 3040.6 SG3 1264.1
 RRT .9140 RRF -.9989 RTF -.9146
 SGB 3312.8 R23 -.0574 R13 -.9973
 SG1 3275.6 SG2 495.2 THA 67.90

ORBIT DETERMINATION ACCURACY

ST 644.1 SR 1286.8 SS 2187.1
 CRT .9945 CRS .9977 CST .9991
 LSA 2616.7 MSA 82.3 SSA 15.0
 EL1 1437.7 EL2 60.3 ALF 63.49

LAUNCH DATE NOV 24 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 461.758

RL 147.68 LAL .00 LOL 61.78 VL 27.853 GAL 5.44 AZL 89.33 MCA 198.13 SMA 129.92 ECC .16589 INC .6704 V1 30.169
 RP 108.67 LAP -.21 LOP 259.91 VP 37.697 GAP -1.60 AZP 90.64 TAL 150.57 TAP 348.70 RCA 108.37 APO 151.47 V2 34.873
 RC 68.274 GL 4.82 GP 30.83 ZAL 39.70 ZAP 69.46 ETS 348.86 ZAE 151.76 ETE 95.07 ZAC 98.06 ETC 159.85 CLP -65.88

PLANETOCENTRIC CONIC

C3 14.864 VHL 3.855 DLA 13.16 RAL 18.80 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 3.530 DPA 30.54 RAP 359.95 ECC 1.2446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 41 20 2567.28 -26.27 65.09 239.44 100.96 7 24 7 1967.3 -24.49 56.88
 90.00 22 4 35 4368.45 5.45 181.40 234.72 62.17 23 17 24 3768.4 1.68 174.75
 100.00 8 9 32 2282.85 -27.40 43.91 239.18 102.44 8 47 34 1682.8 -25.41 35.68
 100.00 23 19 5 4128.11 6.46 163.18 234.17 60.75 24 27 53 3528.1 2.51 156.62
 110.00 9 33 11 2021.08 -30.37 23.16 238.30 106.50 10 6 52 1421.1 -27.81 14.90
 110.00 0 15 51 3962.65 9.09 149.02 232.57 56.90 1 21 53 3362.6 4.67 142.72

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2480 TRA -.5307 TC3 -.3292 BAU .2263 SGT 925.3 SGR 2815.9 SG3 1465.3 ST 441.6 SR 1243.2 SS 2481.3
 RDE -.6672 RRA-1.6367 RC3 1.0902 FAU .11291 RRT .8348 RRF -.9984 RTF -.8356 CRT .9972 CRS .9971 CST .9993
 FDE 4.6034 FRA 9.6100 FC3-6.5763 BSP 9645 SGB 2964.1 R23 -.0436 R13 -.9975 LSA 2808.9 MSA 84.0 SSA 15.8
 BOE .7119 BRA 1.7206 BC3 1.1388 FSP -4598 SG1 2923.2 SG2 490.8 THA 74.20 EL1 1318.9 EL2 31.0 ALF 70.48

LAUNCH DATE NOV 24 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 468.166

RL 147.68 LAL .00 LOL 61.78 VL 27.865 GAL 5.42 AZL 88.91 MCA 201.30 SMA 130.01 ECC .16510 INC 1.0890 V1 30.169
 RP 108.70 LAP -.40 LOP 263.08 VP 37.696 GAP -1.16 AZP 91.01 TAL 150.50 TAP 351.80 RCA 108.54 APO 151.47 V2 34.862
 RC 70.456 GL 7.84 GP 27.73 ZAL 40.07 ZAP 73.62 ETS 352.71 ZAE 154.14 ETE 103.21 ZAC 97.25 ETC 161.31 CLP -71.42

PLANETOCENTRIC CONIC

C3 14.943 VHL 3.866 DLA 15.97 RAL 17.65 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 3.331 DPA 26.84 RAP 359.54 ECC 1.2459
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 24 2667.71 -27.37 72.24 239.50 97.55 6 55 52 2067.7 -26.05 63.82
 90.00 22 25 20 4270.37 2.31 175.91 234.02 61.77 23 36 31 3670.4 -1.48 169.28
 100.00 7 41 37 2376.79 -28.60 50.63 239.30 99.10 8 21 13 1776.8 -27.04 42.18
 100.00 23 37 49 4036.53 3.39 158.12 233.42 60.28 24 45 5 3436.5 -.59 151.59
 110.00 9 9 32 2101.67 -31.78 29.01 238.57 103.30 9 44 34 1501.7 -29.63 20.47
 110.00 0 30 18 3884.42 6.16 144.87 231.71 56.31 1 35 2 3284.4 1.69 138.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1099 TRA -.2595 TC3 -.4933 BAU .2243 SGT 576.2 SGR 2618.6 SG3 1635.3 ST 202.6 SR 1188.4 BS 2727.5
 RDE -.6518 RRA-1.4955 RC3 1.0087 FAU .12435 RRT .5185 RRF -.9977 RTF -.5194 CRT .9970 CRS .9964 CST .9924
 FDE 5.4936 FRA10.4775 FC3-7.2041 BSP 8574 SGB 2681.3 R23 -.0195 R13 -.9976 LSA 2980.5 MSA 93.6 SSA 15.2
 BOE .6610 BRA 1.5179 BC3 1.1228 FSP -5136 SG1 2636.2 SG2 489.4 THA 83.26 EL1 1205.4 EL2 15.4 ALF 80.35

LAUNCH DATE NOV 24 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 474.552

RL 147.68 LAL .00 LOL 61.78 VL 27.875 GAL 5.42 AZL 88.60 MCA 204.48 SMA 130.07 ECC .16457 INC 1.4037 V1 30.169
 RP 108.73 LAP -.58 LOP 266.25 VP 37.695 GAP -.72 AZP 91.28 TAL 150.40 TAP 354.87 RCA 108.67 APO 151.48 V2 34.853
 RC 72.672 GL 10.08 GP 25.21 ZAL 40.43 ZAP 78.36 ETS 355.85 ZAE 155.32 ETE 112.81 ZAC 95.96 ETC 162.62 CLP -77.12

PLANETOCENTRIC CONIC

C3 15.087 VHL 3.884 DLA 18.06 RAL 16.81 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 3.191 DPA 23.57 RAP 358.59 ECC 1.2483
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 26 2748.65 -27.96 78.09 239.68 94.67 6 33 14 2148.7 -27.02 69.55
 90.00 22 42 35 4193.74 -1.16 171.63 233.75 61.68 23 52 28 3593.7 -3.95 165.00
 100.00 7 19 28 2451.83 -29.28 56.11 239.54 96.30 8 0 20 1851.8 -28.10 47.50
 100.00 23 53 13 3965.79 1.00 154.23 233.10 60.12 24 59 19 3365.8 -2.99 147.71
 110.00 8 51 7 2165.11 -32.68 33.74 238.95 100.63 9 27 12 1565.1 -30.87 24.99
 110.00 0 42 0 3825.28 3.91 141.76 231.28 56.01 1 45 45 3225.3 -.58 135.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .0532 TRA .0227 TC3 -.6676 BAU .2319 SGT 525.7 SGR 2428.2 SG3 1767.7 ST 80.7 SR 1117.5 SS 2914.7
 RDE -.6217 RRA-1.3712 RC3 .9361 FAU .13379 RRT -.4104 RRF -.9968 RTF .4112 CRT -.8764 CRS .9954 CST -.9149
 FDE 6.2458 FRA11.1289 FC3-7.6769 BSP 7743 SGB 2484.4 R23 .0157 R13 -.9967 LSA 3120.8 MSA 104.4 SSA 14.5
 BOE .6239 BRA 1.3714 BC3 1.1498 FSP -5609 SG1 2438.1 SG2 477.4 THA 95.28 EL1 1119.7 EL2 38.8 ALF 93.63

LAUNCH DATE NOV 24 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 480.916

RL 147.68 LAL .00 LOL 61.78 VL 27.882 GAL 5.43 AZL 88.35 MCA 207.65 SMA 130.13 ECC .16429 INC 1.6503 V1 30.169
 RP 108.76 LAP -.77 LOP 269.42 VP 37.692 GAP -.29 AZP 91.46 TAL 150.27 TAP 357.92 RCA 108.75 APO 151.50 V2 34.844
 RC 74.919 GL 11.80 GP 23.07 ZAL 40.73 ZAP 83.49 ETS 358.46 ZAE 155.38 ETE 123.01 ZAC 94.35 ETC 163.77 CLP -82.92

PLANETOCENTRIC CONIC

C3 15.277 VHL 3.909 DLA 19.68 RAL 16.19 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 3.098 DPA 20.58 RAP 357.30 ECC 1.2514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 27 37 2816.41 -28.24 83.02 239.93 92.21 6 14 33 2216.4 -27.63 74.41
 90.00 22 57 27 4131.59 -2.17 168.16 233.75 61.76 24 6 19 3531.6 -5.93 161.50
 100.00 7 1 22 2514.06 -29.66 60.69 239.84 93.91 7 43 16 1914.1 -28.80 52.00
 100.00 0 10 18 3909.17 -.92 151.12 233.06 60.12 1 15 28 3309.2 -4.89 144.59
 110.00 8 36 20 2216.95 -33.26 37.67 239.39 98.37 9 13 17 1616.9 -31.75 28.77
 110.00 0 51 50 3779.05 2.15 139.34 231.14 55.88 1 54 49 3179.0 -2.34 133.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .2353 TRA .3117 TC3 -.8517 BAU .2481 SGT 893.2 SGR 2239.6 SG3 1860.2 ST 375.0 SR 1034.6 SS 3049.5
 RDE -.5809 RRA-1.2574 RC3 .8663 FAU .14066 RRT -.8471 RRF -.9955 RTF .8500 CRT -.9786 CRS .9940 CST -.9949
 FDE 6.8430 FRA11.5637 FC3-7.9709 BSP 7219 SGB 2411.1 R23 .0538 R13 -.9942 LSA 3239.9 MSA 114.4 SSA 13.9
 BOE .6268 BRA 1.2954 BC3 1.2148 FSP -5983 SG1 2369.0 SG2 448.7 THA 109.39 EL1 1098.1 EL2 72.6 ALF 109.62

LAUNCH DATE NOV 24 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 487.258

RL 147.68 LAL .00 LOL 61.78 VL 27.887 GAL 5.45 AZL 88.15 MCA 210.82 SMA 130.16 ECC .16426 INC 1.8495 V1 30.169
 RP 108.78 LAP -.95 LOP 272.59 VP 37.688 GAP .13 AZP 91.59 TAL 150.11 TAP .93 RCA 108.78 APO 151.54 V2 34.835
 RC 77.194 GL 13.15 GP 21.18 ZAL 40.96 ZAP 88.84 ETS .62 ZAE 154.45 ETE 132.79 ZAC 92.54 ETC 164.75 CLP -88.76

PLANETOCENTRIC CONIC

C3 15.505 VHL 3.938 OLA 20.97 RAL 15.74 RAD 6567.6 VEL 11.700 PTH 2.06 VHP 3.043 DPA 17.80 RAP 355.83 ECC 1.2552
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 52 2874.80 -28.32 87.29 240.25 90.07 5 58 47 2274.8 -28.01 78.64
 90.00 23 10 39 4079.88 -3.83 165.27 233.95 61.92 24 18 39 3479.9 -7.56 158.58
 100.00 6 46 16 2567.16 -29.84 64.63 240.22 91.85 7 29 4 1967.2 -29.27 55.87
 100.00 0 21 51 3862.76 -2.50 148.58 233.21 60.20 1 26 14 3262.8 -6.44 142.01
 110.00 8 24 17 2260.54 -33.65 41.02 239.89 96.43 9 1 57 1660.5 -32.39 32.01
 110.00 1 0 20 3742.13 .74 137.41 231.19 55.82 2 2 42 3142.1 -3.75 131.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4314 TRA .6031 TC3-1.0395 BAU .2715
 RDE -.5318 RRA-1.1503 RC3 .7964 FAU .14453
 FDE 7.2693 FRA11.7783 FC3-8.0699 BSP 7120
 BOE .6847 BRA 1.2988 BC3 1.3095 FSP -6239

SGT 1395.5 SGR 2050.6 SG3 1910.8
 RRT -.9378 RRF -.9938 RTF .9426
 SGB 2480.4 R23 .0785 R13 -.9911
 SG1 2446.9 SG2 405.9 THA 123.59

ST 688.5 SR 942.4 SS 3135.3
 CRT -.9828 CRS .9919 CST -.9981
 LSA 3343.1 MSA 123.6 SSA 13.5
 EL1 1162.6 EL2 103.1 ALF 126.00

LAUNCH DATE NOV 24 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 493.577

RL 147.68 LAL .00 LOL 61.78 VL 27.890 GAL 5.49 AZL 87.99 MCA 213.99 SMA 130.19 ECC .16447 INC 2.0147 V1 30.169
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.683 GAP .55 AZP 91.67 TAL 149.92 TAP 3.91 RCA 108.77 APO 151.60 V2 34.827
 RC 79.493 GL 14.23 GP 19.47 ZAL 41.11 ZAP 94.28 ETS 2.42 ZAE 152.71 ETE 141.40 ZAC 90.64 ETC 165.86 CLP -94.54

PLANETOCENTRIC CONIC

C3 15.772 VHL 3.971 OLA 22.02 RAL 15.44 RAD 6567.6 VEL 11.711 PTH 2.06 VHP 3.022 DPA 15.20 RAP 354.29 ECC 1.2596
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 30 2926.28 -28.26 91.06 240.63 88.19 5 45 17 2326.3 -28.22 82.39
 90.00 23 22 35 4036.11 -5.23 162.82 234.30 62.13 24 29 51 3436.1 -8.92 156.08
 100.00 6 33 31 2613.47 -29.89 68.07 240.66 90.04 7 17 5 2013.5 -29.57 59.28
 100.00 0 32 11 3824.16 -3.80 146.45 233.52 60.33 1 35 56 3224.2 -7.72 139.86
 110.00 8 14 20 2298.06 -33.89 43.92 240.46 94.73 8 52 38 1698.1 -32.87 34.83
 110.00 1 7 52 3712.32 -4.40 135.86 231.40 55.82 2 9 44 3112.3 -4.88 129.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .6353 TRA .8921 TC3-1.2242 BAU .3001
 RDE -.4765 RRA-1.0488 RC3 .7263 FAU .14526
 FDE 7.5184 FRA11.7829 FC3-7.9734 BSP 7489
 BOE .7942 BRA 1.3769 BC3 1.4234 FSP -6362

SGT 1926.9 SGR 1862.6 SG3 1920.3
 RRT -.9632 RRF -.9913 RTF .9703
 SGB 2679.9 R23 .0820 R13 -.9896
 SG1 2655.2 SG2 363.4 THA 136.01

ST 1007.2 SR 844.1 SS 3176.0
 CRT -.9815 CRS .9888 CST -.9990
 LSA 3434.6 MSA 131.8 SSA 13.2
 EL1 1308.3 EL2 124.4 ALF 140.13

LAUNCH DATE NOV 24 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 499.875

RL 147.68 LAL .00 LOL 61.78 VL 27.891 GAL 5.54 AZL 87.85 MCA 217.15 SMA 130.20 ECC .16493 INC 2.1549 V1 30.169
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.677 GAP .97 AZP 91.72 TAL 149.70 TAP 6.85 RCA 108.72 APO 151.67 V2 34.820
 RC 81.813 GL 15.09 GP 17.90 ZAL 41.19 ZAP 99.69 ETS 3.91 ZAE 150.43 ETE 148.54 ZAC 88.77 ETC 166.19 CLP -100.19

PLANETOCENTRIC CONIC

C3 16.079 VHL 4.010 OLA 22.89 RAL 15.26 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 3.032 DPA 12.78 RAP 352.77 ECC 1.2646
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 44 4 2972.46 -28.12 94.43 241.07 86.50 5 33 37 2372.5 -28.31 85.77
 90.00 23 33 34 3998.69 -6.42 160.71 234.79 62.36 24 40 12 3398.7 -10.07 153.93
 100.00 6 22 40 2654.57 -29.85 71.13 241.16 88.43 7 6 54 2054.6 -29.75 62.32
 100.00 0 41 35 3791.81 -4.89 144.67 233.95 60.47 1 44 47 3191.8 -8.78 138.05
 110.00 8 6 6 2330.97 -34.05 46.48 241.09 93.22 8 44 57 1731.0 -33.23 37.33
 110.00 1 14 38 3688.17 -1.32 134.60 231.73 55.84 2 16 7 3088.2 -5.80 128.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8424 TRA 1.1749 TC3-1.3985 BAU .3320
 RDE -.4179 RRA -.9536 RC3 .6554 FAU .14264
 FDE 7.6055 FRA11.6059 FC3-7.6798 BSP 8250
 BOE .9404 BRA 1.5132 BC3 1.5445 FSP -6342

SGT 2455.0 SGR 1679.4 SG3 1893.0
 RRT -.9710 RRF -.9879 RTF .9814
 SGB 2974.5 R23 .0711 R13 -.9897
 SG1 2955.7 SG2 333.5 THA 145.91

ST 1322.5 SR 744.1 SS 3179.8
 CRT -.9775 CRS .9842 CST -.9993
 LSA 3520.5 MSA 139.1 SSA 12.9
 EL1 1511.2 EL2 137.5 ALF 150.93

LAUNCH DATE NOV 24 1968

FLIGHT TIME 188.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 506.148

RL 147.68 LAL .00 LOL 61.78 VL 27.891 GAL 5.61 AZL 87.72 MCA 220.32 SMA 130.19 ECC .16562 INC 2.2760 V1 30.169
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.670 GAP 1.38 AZP 91.74 TAL 149.45 TAP 9.76 RCA 108.63 APO 151.75 V2 34.813
 RC 84.153 GL 15.78 GP 16.45 ZAL 41.20 ZAP 104.99 ETS 5.14 ZAE 147.83 ETE 154.26 ZAC 87.01 ETC 166.65 CLP -105.64

PLANETOCENTRIC CONIC

C3 16.429 VHL 4.053 OLA 23.61 RAL 15.18 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 3.071 DPA 10.56 RAP 351.36 ECC 1.2704
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 33 16 3014.44 -27.91 97.48 241.59 84.99 5 23 30 2414.4 -28.31 88.84
 90.00 23 43 45 3966.52 -7.43 158.88 235.38 62.60 24 49 51 3366.5 -11.04 152.07
 100.00 6 13 25 2691.52 -29.75 73.87 241.74 86.99 6 58 16 2091.5 -29.85 65.07
 100.00 0 50 13 3764.67 -5.80 143.16 234.50 60.62 1 52 57 3164.7 -9.67 136.52
 110.00 7 59 18 2360.26 -34.14 48.76 241.79 91.87 8 38 38 1760.3 -33.50 39.58
 110.00 1 20 49 3668.70 -2.07 133.58 232.18 55.87 2 21 58 3068.7 -6.53 127.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0462 TRA 1.4463 TC3-1.5591 BAU .3661
 RDE -.3565 RRA -.8638 RC3 .5902 FAU .13818
 FDE 7.5256 FRA11.2588 FC3-7.2814 BSP 9310
 BOE 1.1053 BRA 1.6846 BC3 1.6670 FSP -6236

SGT 2960.1 SGR 1502.9 SG3 1832.2
 RRT -.9718 RRF -.9831 RTF .9868
 SGB 3319.8 R23 .0548 R13 -.9906
 SG1 3304.6 SG2 317.6 THA 153.47

ST 1623.7 SR 643.4 SS 3143.4
 CRT -.9700 CRS .9769 CST -.9995
 LSA 3593.0 MSA 146.0 SSA 12.7
 EL1 1740.4 EL2 145.9 ALF 158.82

LAUNCH DATE NOV 24 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 27.889 GAL 5.69 AZL 87.62 HCA 223.48 SMA 130.18 ECC .16655 INC 2.3822 V1 30.169
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.663 GAP 1.80 AZP 91.73 TAL 149.16 TAP 12.64 RCA 108.50 APO 151.86 V2 34.807
 RC 86.508 GL 16.33 GP 15.12 ZAL 41.14 ZAP 110.09 ETS 6.15 ZAE 145.09 ETE 158.75 ZAC 85.43 ETC 166.97 CLP-110.84

PLANETOCENTRIC CONIC

C3 16.825 VHL 4.102 DLA 24.21 RAL 15.19 RAD 6567.7 VEL 11.756 PTH 2.08 VHP 3.135 DPA 8.54 RAP 350.12 ECC 1.2769
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 23 51 3052.99 -27.65 100.27 242.18 83.61 5 14 44 2453.0 -28.24 91.66
 90.00 23 53 16 3938.90 -8.29 157.31 236.08 62.83 24 58 55 3338.9 -11.87 150.46
 100.00 6 5 33 2725.10 -29.61 76.36 242.39 85.69 6 50 58 2125.1 -29.89 67.56
 100.00 0 58 11 3742.03 -6.55 141.91 235.14 60.77 2 0 33 3142.0 -10.40 135.23
 110.00 7 53 43 2386.67 -34.18 50.82 242.57 90.65 8 33 30 1786.7 -33.71 41.61
 110.00 1 26 30 3653.22 -2.66 132.77 232.74 55.91 2 27 23 3053.2 -7.12 126.52

DIFFERENTIAL CORRECTIONS

TDE 1.2435 TRA 1.7054 TC3-1.7008 BAU .4006
 RDE -.2955 RRA -.7816 RC3 .5286 FAU .13169
 FDE 7.3224 FRA10.7969 FC3-6.7760 BSP 10513
 BOE 1.2782 BRA 1.8760 BC3 1.7810 FSP -6035

MID-COURSE EXECUTION ACCURACY

SGT 3433.1 SGR 1338.4 SG3 1747.3
 RRT -.9682 RRF -.9764 RTF .9897
 SGB 3684.8 R23 .0403 R13 -.9916
 SG1 3671.4 SG2 313.3 THA 159.16

ORBIT DETERMINATION ACCURACY

ST 1906.0 SR 547.3 SS 3079.5
 CRT -.9576 CRS .9652 CST -.9996
 LSA 3659.6 MSA 152.3 SSA 12.5
 EL1 1977.2 EL2 152.0 ALF 164.53

LAUNCH DATE NOV 24 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 27.889 GAL 5.79 AZL 87.52 HCA 226.65 SMA 130.15 ECC .16772 INC 2.4765 V1 30.169
 RP 108.89 LAP -1.80 LOP 288.40 VP 37.653 GAP 2.21 AZP 91.70 TAL 148.83 TAP 15.48 RCA 108.32 APO 151.98 V2 34.802
 RC 88.877 GL 16.77 GP 13.89 ZAL 41.02 ZAP 114.94 ETS 6.98 ZAE 142.35 ETE 162.26 ZAC 84.08 ETC 167.15 CLP-115.74

PLANETOCENTRIC CONIC

C3 17.272 VHL 4.156 DLA 24.73 RAL 15.29 RAD 6567.7 VEL 11.775 PTH 2.08 VHP 3.222 DPA 8.73 RAP 349.07 ECC 1.2843
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 41 3088.65 -27.35 102.84 242.86 82.36 5 7 10 2488.7 -28.12 94.26
 90.00 0 6 8 3915.31 -9.02 155.96 236.88 63.04 1 11 24 3315.3 -12.57 149.08
 100.00 5 58 55 2755.83 -29.43 78.62 243.13 84.51 6 44 51 2155.8 -29.88 69.85
 100.00 1 5 36 3723.36 -7.17 140.87 235.88 60.90 2 7 39 3123.4 -11.00 134.17
 110.00 7 49 13 2410.74 -34.18 52.70 243.42 89.54 8 29 24 1810.7 -33.87 43.47
 110.00 1 31 47 3641.22 -3.12 132.15 233.38 55.94 2 32 28 3041.2 -7.57 125.88

DIFFERENTIAL CORRECTIONS

TDE 1.4327 TRA 1.9521 TC3-1.8198 BAU .4341
 RDE -.2367 RRA -.7075 RC3 .4715 FAU .12363
 FDE 7.0311 FRA10.2623 FC3-6.1968 BSP 11754
 BOE 1.4321 BRA 2.0763 BC3 1.8799 FSP -5761

MID-COURSE EXECUTION ACCURACY

SGT 3868.9 SGR 1188.8 SG3 1646.4
 RRT -.9608 RRF -.9671 RTF .9914
 SGB 4047.4 R23 .0295 R13 -.9923
 SG1 4035.0 SG2 316.0 THA 163.45

ORBIT DETERMINATION ACCURACY

ST 2166.5 SR 458.7 SS 2996.3
 CRT -.9373 CRS .9461 CST -.9996
 LSA 3722.4 MSA 158.3 SSA 12.4
 EL1 2208.9 EL2 156.8 ALF 168.72

LAUNCH DATE NOV 24 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 27.880 GAL 5.90 AZL 87.44 HCA 229.81 SMA 130.11 ECC .16913 INC 2.5616 V1 30.169
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.647 GAP 2.62 AZP 91.65 TAL 148.48 TAP 18.29 RCA 108.11 APO 152.12 V2 34.797
 RC 91.256 GL 17.10 GP 12.76 ZAL 40.83 ZAP 119.50 ETS 7.66 ZAE 139.70 ETE 165.01 ZAC 82.99 ETC 167.23 CLP-120.33

PLANETOCENTRIC CONIC

C3 17.773 VHL 4.216 DLA 25.16 RAL 15.46 RAD 6567.7 VEL 11.796 PTH 2.09 VHP 3.331 DPA 5.15 RAP 348.25 ECC 1.2925
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 8 41 3121.78 -27.03 105.21 243.61 81.21 5 0 42 2521.8 -27.96 96.67
 90.00 0 14 32 3895.44 -9.63 154.82 237.76 63.24 1 19 28 3295.4 -13.15 147.91
 100.00 5 53 24 2784.13 -29.23 80.70 243.94 83.43 6 39 49 2184.1 -29.83 71.95
 100.00 1 12 30 3708.33 -7.67 140.03 236.71 61.02 2 14 18 3108.3 -11.48 133.31
 110.00 7 45 41 2432.87 -34.15 54.43 244.35 88.52 8 26 14 1832.9 -33.98 45.19
 110.00 1 36 43 3632.36 -3.45 131.68 234.12 55.97 2 37 15 3032.4 -7.90 125.41

DIFFERENTIAL CORRECTIONS

TDE 1.6116 TRA 2.1866 TC3-1.9172 BAU .4663
 RDE -.1809 RRA -.6417 RC3 .4201 FAU .11475
 FDE 6.6804 FRA 9.6907 FC3-5.5896 BSP 12981
 BOE 1.6217 BRA 2.2788 BC3 1.9627 FSP -5440

MID-COURSE EXECUTION ACCURACY

SGT 4264.9 SGR 1055.7 SG3 1536.8
 RRT -.9495 RRF -.9545 RTF .9923
 SGB 4393.6 R23 .0220 R13 -.9929
 SG1 4381.8 SG2 322.6 THA 166.70

ORBIT DETERMINATION ACCURACY

ST 2402.0 SR 379.6 SS 2899.3
 CRT -.9033 CRS .9139 CST -.9997
 LSA 3780.6 MSA 163.9 SSA 12.3
 EL1 2426.5 EL2 161.2 ALF 171.84

LAUNCH DATE NOV 24 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

RL 147.68 LAL .00 LOL 61.78 VL 27.874 GAL 6.03 AZL 87.36 HCA 232.97 SMA 130.07 ECC .17078 INC 2.6390 V1 30.169
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.638 GAP 3.03 AZP 91.59 TAL 148.09 TAP 21.06 RCA 107.86 APO 152.28 V2 34.793
 RC 93.644 GL 17.34 GP 11.74 ZAL 40.60 ZAP 123.78 ETS 8.22 ZAE 137.20 ETE 167.16 ZAC 82.16 ETC 167.24 CLP-124.60

PLANETOCENTRIC CONIC

C3 18.333 VHL 4.282 DLA 25.52 RAL 15.71 RAD 6567.7 VEL 11.820 PTH 2.09 VHP 3.458 DPA 3.78 RAP 347.65 ECC 1.3017
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 44 3152.65 -26.69 107.40 244.44 80.16 4 55 17 2552.7 -27.77 98.91
 90.00 0 22 26 3879.06 -10.13 153.88 238.73 63.42 1 27 5 3279.1 -13.62 146.94
 100.00 5 48 56 2810.29 -29.01 82.62 244.84 82.45 6 35 46 2210.3 -29.75 73.89
 100.00 1 18 55 3696.65 -8.05 139.37 237.62 61.12 2 20 32 3096.7 -11.85 132.64
 110.00 7 43 0 2453.38 -34.11 56.03 245.37 87.57 8 23 54 1853.4 -34.07 46.79
 110.00 1 41 20 3626.33 -3.68 131.37 234.94 55.99 2 41 46 3026.3 -8.12 125.09

DIFFERENTIAL CORRECTIONS

TDE 1.7829 TRA 2.4129 TC3-1.9865 BAU .4954
 RDE -.1294 RRA -.5844 RC3 .3728 FAU .10488
 FDE 6.3088 FRA 9.1202 FC3-4.9527 BSP 14095
 BOE 1.7876 BRA 2.4827 BC3 2.0212 FSP -5067

MID-COURSE EXECUTION ACCURACY

SGT 4624.7 SGR 939.7 SG3 1425.3
 RRT -.9336 RRF -.9377 RTF .9928
 SGB 4719.2 R23 .0170 R13 -.9931
 SG1 4707.6 SG2 330.8 THA 169.21

ORBIT DETERMINATION ACCURACY

ST 2616.6 SR 312.5 SS 2798.5
 CRT -.8470 CRS .8600 CST -.9997
 LSA 3840.2 MSA 169.1 SSA 12.3
 EL1 2630.0 EL2 165.3 ALF 174.20

LAUNCH DATE NOV 24 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 537.164

RL 147.68 LAL .00 LOL 61.78 VL 27.866 GAL 6.17 AZL 87.29 MCA 236.14 SMA 130.01 ECC .17268 INC 2.7103 V1 30.169
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.630 GAP 3.44 AZP 91.51 TAL 147.66 TAP 23.80 RCA 107.56 APO 152.46 V2 34.789
 RC 96.038 GL 17.51 GP 10.82 ZAL 40.31 ZAP 127.76 ETS 8.69 ZAE 134.88 ETE 168.85 ZAC 81.60 ETC 167.19 CLP-128.57

PLANETOCENTRIC CONIC

C3 18.958 VHL 4.354 DLA 25.83 RAL 16.02 RAD 6567.8 VEL 11.847 PTH 2.10 VHP 3.602 DPA 2.62 RAP 347.29 ECC 1.3120
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 49 3181.40 -26.33 109.44 245.36 79.20 4 50 51 2581.4 -27.56 100.98
 90.00 0 29 48 3866.06 -10.53 153.13 239.77 63.56 1 34 14 3266.1 -14.00 146.17
 100.00 5 45 25 2834.53 -28.78 84.38 245.83 81.55 6 32 39 2234.5 -29.65 75.68
 100.00 1 24 54 3688.16 -8.33 138.90 238.61 61.19 2 26 22 3088.2 -12.11 132.15
 110.00 7 41 7 2472.52 -34.04 57.52 246.47 86.69 8 22 20 1872.5 -34.13 48.28
 110.00 1 45 41 3622.94 -3.81 131.19 235.83 56.00 2 46 4 3022.9 -8.25 124.91

DIFFERENTIAL CORRECTIONS

TOE 1.9414 TRA 2.6281 TC3-2.0382 BAU .5234
 RDE -.0808 RRA -.5338 RC3 .3325 FAU .09559
 FDE 5.9127 FRA 8.5503 FC3-4.3651 BSP 15188
 BOE 1.9431 BRA 2.6818 BC3 2.0652 FSP -4715

MID-COURSE EXECUTION ACCURACY

SGT 4943.5 SGR 839.2 SG3 1313.8
 RRT -.9122 RRF -.9156 RTF .9930
 SGB 5014.2 R23 .0133 R13 -.9932
 SG1 5002.7 SG2 339.8 THA 171.16

ORBIT DETERMINATION ACCURACY

ST 2803.2 SR 257.3 SS 2688.3
 CRT -.7516 CRS .7679 CST -.9997
 LSA 3888.5 MSA 174.1 SSA 12.3
 EL1 2809.8 EL2 169.3 ALF 176.04

LAUNCH DATE NOV 24 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 543.292

RL 147.68 LAL .00 LOL 61.78 VL 27.857 GAL 6.33 AZL 87.22 MCA 239.30 SMA 129.95 ECC .17483 INC 2.7764 V1 30.169
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.621 GAP 3.86 AZP 91.42 TAL 147.21 TAP 26.50 RCA 107.23 APO 152.67 V2 34.787
 RC 98.436 GL 17.61 GP 9.99 ZAL 39.97 ZAP 131.46 ETS 9.10 ZAE 132.76 ETE 170.20 ZAC 81.29 ETC 167.12 CLP-132.24

PLANETOCENTRIC CONIC

C3 19.654 VHL 4.433 DLA 26.08 RAL 16.39 RAD 6567.8 VEL 11.876 PTH 2.11 VHP 3.762 DPA 1.66 RAP 347.16 ECC 1.3235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 53 54 3208.14 -25.98 111.31 246.37 78.32 4 47 22 2608.1 -27.33 102.91
 90.00 0 36 39 3856.37 -10.82 152.57 240.89 63.67 1 40 56 3256.4 -14.27 145.59
 100.00 5 42 49 2857.03 -28.54 86.01 246.90 80.72 6 30 26 2257.0 -29.53 77.35
 100.00 1 30 26 3682.71 -8.51 138.59 239.66 61.24 2 31 49 3082.7 -12.28 131.84
 110.00 7 39 58 2490.50 -33.96 58.92 247.65 85.87 8 21 28 1890.5 -34.16 49.68
 110.00 1 49 47 3622.00 -3.85 131.14 236.81 56.01 2 50 9 3022.0 -8.29 124.86

DIFFERENTIAL CORRECTIONS

TOE 2.0909 TRA 2.8370 TC3-2.0689 BAU .5492
 RDE -.0361 RRA -.4898 RC3 .2972 FAU .08655
 FDE 5.5225 FRA 8.0080 FC3-3.8123 BSP 16193
 BOE 2.0913 BRA 2.8790 BC3 2.0902 FSP -4365

MID-COURSE EXECUTION ACCURACY

SGT 5228.0 SGR 753.9 SG3 1206.9
 RRT -.8846 RRF -.8873 RTF .9931
 SGB 5282.1 R23 .0106 R13 -.9932
 SG1 5270.6 SG2 348.7 THA 172.70

ORBIT DETERMINATION ACCURACY

ST 2967.4 SR 216.7 SS 2578.0
 CRT -.5995 CRS .6195 CST -.9997
 LSA 3932.7 MSA 178.9 SSA 12.4
 EL1 2970.2 EL2 173.3 ALF 177.49

LAUNCH DATE NOV 24 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 549.394

RL 147.68 LAL .00 LOL 61.78 VL 27.847 GAL 6.51 AZL 87.16 MCA 242.46 SMA 129.88 ECC .17724 INC 2.8383 V1 30.169
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.612 GAP 4.28 AZP 91.31 TAL 146.72 TAP 29.18 RCA 106.86 APO 152.90 V2 34.785
 RC 100.837 GL 17.65 GP 9.24 ZAL 39.59 ZAP 134.89 ETS 9.46 ZAE 130.82 ETE 171.28 ZAC 81.23 ETC 167.02 CLP-135.65

PLANETOCENTRIC CONIC

C3 20.428 VHL 4.520 DLA 26.28 RAL 16.81 RAD 6567.8 VEL 11.908 PTH 2.12 VHP 3.937 DPA .88 RAP 347.23 ECC 1.3362
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 58 3232.92 -25.63 113.04 247.46 77.52 4 44 51 2632.9 -27.09 104.68
 90.00 0 42 58 3849.98 -11.01 152.20 242.07 63.75 1 47 8 3250.0 -14.45 145.21
 100.00 5 41 5 2877.93 -28.30 87.52 248.06 79.96 6 29 3 2277.9 -29.40 78.89
 100.00 1 35 33 3680.19 -8.59 138.45 240.79 61.26 2 36 53 3080.2 -12.36 131.69
 110.00 7 39 28 2507.49 -33.87 60.24 248.91 85.09 8 21 16 1907.5 -34.18 51.01
 110.00 1 53 38 3623.39 -3.80 131.21 237.85 56.00 2 54 2 3023.4 -8.23 124.94

DIFFERENTIAL CORRECTIONS

TOE 2.2321 TRA 3.0419 TC3-2.0803 BAU .5728
 RDE .0053 RRA -.4516 RC3 .2661 FAU .07793
 FDE 5.1465 FRA 7.5009 FC3-3.3027 BSP 17112
 BOE 2.2321 BRA 3.0753 BC3 2.0972 FSP -4026

MID-COURSE EXECUTION ACCURACY

SGT 5481.0 SGR 682.4 SG3 1106.3
 RRT -.8501 RRF -.8522 RTF .9930
 SGB 5523.3 R23 .0084 R13 -.9931
 SG1 5511.7 SG2 357.3 THA 173.93

ORBIT DETERMINATION ACCURACY

ST 3110.5 SR 191.8 SS 2469.1
 CRT -.3828 CRS .6195 CST -.9996
 LSA 3971.7 MSA 183.3 SSA 12.4
 EL1 3111.3 EL2 177.1 ALF 178.64

LAUNCH DATE NOV 24 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 555.468

RL 147.68 LAL .00 LOL 61.78 VL 27.836 GAL 6.71 AZL 87.10 MCA 245.62 SMA 129.80 ECC .17993 INC 2.8968 V1 30.169
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.602 GAP 4.70 AZP 91.20 TAL 146.21 TAP 31.83 RCA 106.45 APO 153.16 V2 34.784
 RC 103.240 GL 17.63 GP 8.58 ZAL 39.16 ZAP 138.07 ETS 9.80 ZAE 129.07 ETE 172.15 ZAC 81.39 ETC 166.92 CLP-138.80

PLANETOCENTRIC CONIC

C3 21.287 VHL 4.614 DLA 26.45 RAL 17.28 RAD 6567.9 VEL 11.944 PTH 2.13 VHP 4.125 DPA .27 RAP 347.50 ECC 1.3503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 49 0 3255.75 -25.28 114.63 248.65 76.80 4 43 15 2655.7 -26.85 106.31
 90.00 0 48 43 3846.90 -11.11 152.02 243.32 63.78 1 52 50 3246.9 -14.54 145.03
 100.00 5 40 10 2897.36 -28.07 88.91 249.31 79.26 6 28 27 2297.4 -29.26 80.31
 100.00 1 40 14 3680.52 -8.58 138.47 241.99 61.26 2 41 34 3080.5 -12.35 131.71
 110.00 7 39 36 2523.64 -33.77 61.49 250.27 84.36 8 21 40 1923.6 -34.18 52.27
 110.00 1 57 17 3627.00 -3.66 131.40 238.97 55.99 2 57 44 3027.0 -8.10 125.13

DIFFERENTIAL CORRECTIONS

TOE 2.3664 TRA 3.2452 TC3-2.0733 BAU .5939
 RDE .0438 RRA -.4182 RC3 .2387 FAU .06980
 FDE 4.7914 FRA 7.0332 FC3-2.8388 BSP 17948
 BOE 2.3668 BRA 3.2721 BC3 2.0870 FSP -3707

MID-COURSE EXECUTION ACCURACY

SGT 5705.9 SGR 622.9 SG3 1012.9
 RRT -.8083 RRF -.8097 RTF .9928
 SGB 5739.8 R23 .0067 R13 -.9928
 SG1 5728.1 SG2 365.3 THA 174.94

ORBIT DETERMINATION ACCURACY

ST 3234.6 SR 182.5 SS 2363.5
 CRT -.1280 CRS .1539 CST -.9996
 LSA 4005.8 MSA 187.5 SSA 12.4
 EL1 3234.7 EL2 180.9 ALF 179.59

LAUNCH DATE NOV 24 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 561.513

RL 147.68 LAL .00 LOL 61.78 VL 27.824 GAL 6.93 AZL 87.05 HCA 248.78 SMA 129.72 ECC .18290 INC 2.9523 V1 30.169
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.593 GAP 5.14 AZP 91.07 TAL 145.66 TAP 34.44 RCA 105.99 APO 153.44 V2 34.783
 RC 105.643 GL 17.56 GP 7.98 ZAL 38.70 ZAP 141.02 ETS 10.12 ZAE 127.50 ETE 172.87 ZAC 81.76 ETC 166.82 CLP-141.72

PLANETOCENTRIC CONIC

C3 22.240 VHL 4.716 DLA 26.57 RAL 17.80 RAD 6567.9 VEL 11.984 PTH 2.14 VHP 4.326 DPA -.19 RAP 347.95 ECC 1.3660
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 47 59 3276.66 -24.95 116.07 249.92 76.15 4 42 35 2676.7 -26.61 107.79
 90.00 0 53 52 3847.16 -11.10 152.04 244.63 63.78 1 57 59 3247.2 -14.53 145.04
 100.00 5 40 2 2915.42 -27.83 90.20 250.64 78.62 6 28 38 2315.4 -29.12 81.64
 100.00 1 44 30 3683.63 -8.48 138.64 243.25 61.23 2 45 53 3083.6 -12.26 131.89
 110.00 7 40 18 2539.08 -33.66 62.68 251.70 83.66 8 22 38 1939.1 -34.17 53.48
 110.00 2 0 43 3632.73 -3.44 131.70 240.16 55.97 3 1 15 3032.7 -7.88 125.43

DIFFERENTIAL CORRECTIONS

TDE 2.4979 TRA 3.4526 TC3-2.0447 BAU .6113
 ROE .0794 RRA -.3892 RC3 .2138 FAU .06187
 FDE 4.4680 FRA 6.6135 FC3-2.4084 BSP 18627
 BOE 2.4992 BRA 3.4745 BC3 2.0558 FSP -3389

MID-COURSE EXECUTION ACCURACY

SGT 5909.9 SGR 574.1 SG3 927.9
 RRT -.7593 RRF -.7599 RTF .9925
 SGB 5937.7 R23 .0031 R13 -.9925
 SG1 5926.0 SG2 372.5 THA 175.77

ORBIT DETERMINATION ACCURACY

ST 3345.6 SR 185.8 SS 2265.5
 CRT .1114 CRS -.0850 CST -.9996
 LSA 4040.2 MSA 191.4 SSA 12.6
 EL1 3345.7 EL2 184.6 ALF .36

LAUNCH DATE NOV 24 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 567.526

RL 147.68 LAL .00 LOL 61.78 VL 27.812 GAL 7.17 AZL 86.99 HCA 251.94 SMA 129.63 ECC .18616 INC 3.0056 V1 30.169
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.584 GAP 5.58 AZP 90.93 TAL 145.10 TAP 37.03 RCA 105.50 APO 153.76 V2 34.783
 RC 108.045 GL 17.44 GP 7.45 ZAL 38.20 ZAP 143.77 ETS 10.45 ZAE 126.08 ETE 173.45 ZAC 82.31 ETC 166.73 CLP-144.44

PLANETOCENTRIC CONIC

C3 23.299 VHL 4.827 DLA 26.67 RAL 18.36 RAD 6567.9 VEL 12.028 PTH 2.15 VHP 4.540 DPA -.51 RAP 348.56 ECC 1.3834
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 47 55 3295.65 -24.63 117.37 251.29 75.57 4 42 50 2695.7 -26.38 109.13
 90.00 0 58 24 3850.78 -10.99 152.25 245.99 63.74 2 2 35 3250.8 -14.43 145.26
 100.00 5 40 39 2932.21 -27.60 91.40 252.06 78.03 6 29 31 2332.2 -28.97 82.86
 100.00 1 48 21 3689.45 -8.29 138.97 244.56 61.18 2 49 50 3089.5 -12.07 132.23
 110.00 7 41 33 2553.92 -33.54 63.83 253.22 82.99 8 24 7 1953.9 -34.15 54.64
 110.00 2 3 56 3640.51 -3.14 132.11 241.40 55.94 3 4 37 3040.5 -7.59 125.85

DIFFERENTIAL CORRECTIONS

TDE 2.6208 TRA 3.6584 TC3-2.0081 BAU .6283
 ROE .1133 RRA -.3631 RC3 .1923 FAU .05502
 FDE 4.1606 FRA 6.2238 FC3-2.0444 BSP 19314
 BOE 2.6232 BRA 3.6764 BC3 2.0173 FSP -3115

MID-COURSE EXECUTION ACCURACY

SGT 6086.8 SGR 534.0 SG3 849.3
 RRT -.7031 RRF -.7029 RTF .9921
 SGB 6110.2 R23 .0037 R13 -.9921
 SG1 6098.4 SG2 379.0 THA 176.46

ORBIT DETERMINATION ACCURACY

ST 3436.0 SR 197.6 SS 2167.9
 CRT .3049 CRS -.2792 CST -.9996
 LSA 4062.9 MSA 195.0 SSA 12.7
 EL1 3436.5 EL2 188.2 ALF 1.01

LAUNCH DATE NOV 24 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 573.507

RL 147.68 LAL .00 LOL 61.78 VL 27.798 GAL 7.42 AZL 86.94 HCA 255.10 SMA 129.53 ECC .18974 INC 3.0570 V1 30.169
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.575 GAP 6.02 AZP 90.79 TAL 144.50 TAP 39.60 RCA 104.96 APO 154.11 V2 34.784
 RC 110.446 GL 17.29 GP 6.97 ZAL 37.66 ZAP 146.33 ETS 10.78 ZAE 124.81 ETE 173.94 ZAC 83.02 ETC 166.65 CLP-146.98

PLANETOCENTRIC CONIC

C3 24.474 VHL 4.947 DLA 26.72 RAL 18.96 RAD 6568.0 VEL 12.077 PTH 2.16 VHP 4.767 DPA -.70 RAP 349.32 ECC 1.4028
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 48 47 3312.78 -24.34 118.54 252.74 75.06 4 43 59 2712.8 -26.15 110.34
 90.00 1 2 18 3857.75 -10.78 152.65 247.40 63.66 2 6 36 3257.7 -14.23 145.68
 100.00 5 41 59 2947.84 -27.37 92.51 253.57 77.49 6 31 7 2347.8 -28.82 84.00
 100.00 1 51 47 3697.92 -8.01 139.45 245.93 61.10 2 53 25 3097.9 -11.81 132.71
 110.00 7 43 17 2568.26 -33.42 64.93 254.81 82.35 8 26 5 1968.3 -34.11 55.75
 110.00 2 6 58 3650.26 -2.77 132.62 242.71 55.92 3 7 48 3050.3 -7.23 126.36

DIFFERENTIAL CORRECTIONS

TDE 2.7399 TRA 3.8688 TC3-1.9584 BAU .6433
 ROE .1453 RRA -.3396 RC3 .1730 FAU .04870
 FDE 3.8794 FRA 5.8724 FC3-1.7228 BSP 19935
 BOE 2.7437 BRA 3.8836 BC3 1.9661 FSP -2862

MID-COURSE EXECUTION ACCURACY

SGT 6244.1 SGR 501.6 SG3 778.0
 RRT -.6407 RRF -.6397 RTF .9917
 SGB 6264.3 R23 .0023 R13 -.9918
 SG1 6252.4 SG2 384.6 THA 177.04

ORBIT DETERMINATION ACCURACY

ST 3512.5 SR 214.1 SS 2075.9
 CRT .4456 CRS -.4210 CST -.9996
 LSA 4080.8 MSA 198.4 SSA 12.7
 EL1 3513.8 EL2 191.6 ALF 1.56

LAUNCH DATE NOV 24 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 579.452

RL 147.68 LAL .00 LOL 61.78 VL 27.784 GAL 7.71 AZL 86.89 HCA 258.26 SMA 129.43 ECC .19366 INC 3.1069 V1 30.169
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.566 GAP 6.48 AZP 90.63 TAL 143.89 TAP 42.15 RCA 104.37 APO 154.50 V2 34.786
 RC 112.844 GL 17.09 GP 6.54 ZAL 37.10 ZAP 148.73 ETS 11.14 ZAE 123.66 ETE 174.36 ZAC 83.88 ETC 166.58 CLP-149.35

PLANETOCENTRIC CONIC

C3 25.780 VHL 5.077 DLA 26.75 RAL 19.59 RAD 6568.0 VEL 12.131 PTH 2.17 VHP 5.006 DPA -.79 RAP 350.21 ECC 1.4243
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 32 3328.11 -24.06 119.58 254.29 74.61 4 46 0 2728.1 -25.95 111.41
 90.00 1 5 34 3868.04 -10.47 153.25 248.86 63.54 2 10 2 3268.0 -13.94 146.29
 100.00 5 43 58 2962.42 -27.15 93.53 255.15 76.99 6 33 21 2362.4 -28.67 85.06
 100.00 1 54 49 3708.96 -7.65 140.06 247.36 61.01 2 56 38 3109.0 -11.46 133.35
 110.00 7 45 29 2582.20 -33.29 65.99 256.49 81.74 8 28 31 1982.2 -34.07 56.84
 110.00 2 9 48 3661.95 -2.33 133.23 244.08 55.89 3 10 50 3061.9 -6.79 126.98

DIFFERENTIAL CORRECTIONS

TDE 2.8561 TRA 4.0854 TC3-1.8969 BAU .6560
 ROE .1760 RRA -.3182 RC3 .1554 FAU .04291
 FDE 3.6225 FRA 5.5560 FC3-1.4408 BSP 20495
 BOE 2.8615 BRA 4.0978 BC3 1.9033 FSP -2630

MID-COURSE EXECUTION ACCURACY

SGT 6383.8 SGR 475.4 SG3 713.2
 RRT -.5733 RRF -.5713 RTF .9913
 SGB 6401.5 R23 .0011 R13 -.9913
 SG1 6389.6 SG2 389.2 THA 177.55

ORBIT DETERMINATION ACCURACY

ST 3576.3 SR 232.4 SS 1988.9
 CRT .5450 CRS -.5216 CST -.9996
 LSA 4093.8 MSA 201.4 SSA 12.7
 EL1 3578.5 EL2 194.8 ALF 2.03

LAUNCH DATE NOV 24 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 585.359

RL 147.68 LAL .00 LOL 61.78 VL 27.769 GAL 8.01 AZL 86.84 MCA 261.42 SMA 129.33 ECC .19793 INC 3.1556 V1 30.169
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.557 GAP 6.96 AZP 90.47 TAL 143.25 TAP 44.68 RCA 103.73 APO 154.93 V2 34.789
 RC 115.239 GL 16.86 GP 6.16 ZAL 36.51 ZAP 150.98 ETS 11.52 ZAE 122.63 ETE 174.71 ZAC 84.87 ETC 166.51 CLP-151.58

PLANETOCENTRIC CONIC

C3 27.232 VHL 5.218 DLA 26.75 RAL 20.25 RAD 6568.1 VEL 12.190 PTH 2.19 VHP 5.258 DPA -.77 RAP 351.21 ECC 1.4482
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 53 9 3341.77 -23.81 120.50 255.92 74.21 4 48 50 2741.8 -25.75 112.37
 90.00 1 8 13 3881.55 -10.06 154.03 250.36 63.39 2 12 55 3281.6 -13.55 147.09
 100.00 5 46 35 2976.06 -26.94 94.49 256.83 76.53 6 36 11 2376.1 -28.53 86.05
 100.00 1 57 28 3722.50 -7.20 140.82 248.83 60.91 2 59 30 3122.5 -11.02 134.12
 110.00 7 48 6 2595.82 -33.15 67.03 258.24 81.13 8 31 22 1995.8 -34.02 57.90
 110.00 2 12 26 3675.50 -1.81 133.94 245.51 55.86 3 13 42 3075.5 -6.28 127.70

DIFFERENTIAL CORRECTIONS

TDE 2.9701 TRA 4.3098 TC3-1.8258 BAU .6667
 RDE .2055 RRA -.2983 RC3 .1394 FAU .03762
 FDE 3.3885 FRA 5.2718 FC3-1.1960 BSP 21000
 BOE 2.9772 BRA 4.3201 BC3 1.8311 FSP -2418

MID-COURSE EXECUTION ACCURACY

SGT 6507.5 SGR 454.5 SG3 654.7
 RRT -.5020 RRF -.4992 RTF .9909
 SGB 6523.3 R23 -.0001 R13 -.9909
 SG1 6511.5 SG2 392.8 THA 177.98

ORBIT DETERMINATION ACCURACY

ST 3628.3 SR 251.1 SS 1907.2
 CRT .6155 CRS -.5933 CST -.9996
 LSA 4101.6 MSA 204.2 SSA 12.8
 EL1 3631.6 EL2 197.7 ALF 2.45

LAUNCH DATE NOV 24 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 591.226

RL 147.68 LAL .00 LOL 61.78 VL 27.753 GAL 8.34 AZL 86.80 MCA 264.58 SMA 129.22 ECC .20258 INC 3.2036 V1 30.169
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.548 GAP 7.44 AZP 90.30 TAL 142.60 TAP 47.19 RCA 103.04 APO 155.40 V2 34.792
 RC 117.630 GL 16.60 GP 5.81 ZAL 35.90 ZAP 153.10 ETS 11.94 ZAE 121.70 ETE 175.01 ZAC 85.98 ETC 166.46 CLP-153.69

PLANETOCENTRIC CONIC

C3 28.850 VHL 5.371 DLA 26.73 RAL 20.93 RAD 6568.2 VEL 12.257 PTH 2.21 VHP 5.524 DPA -.67 RAP 352.32 ECC 1.4748
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 33 3353.91 -23.59 121.32 257.64 73.86 4 52 27 2753.9 -25.58 113.21
 90.00 1 10 17 3898.18 -9.55 154.98 251.90 63.21 2 15 15 3298.2 -13.07 148.07
 100.00 5 49 47 2988.87 -26.73 95.39 258.58 76.10 6 39 36 2398.9 -28.38 86.97
 100.00 1 59 44 3738.46 -6.67 141.71 250.36 60.79 3 2 2 3138.5 -10.51 135.03
 110.00 7 51 7 2609.20 -33.00 68.05 260.07 80.55 8 34 36 2009.2 -33.96 58.94
 110.00 2 14 53 3690.89 -1.22 134.74 246.99 55.84 3 16 24 3090.9 -5.69 128.51

DIFFERENTIAL CORRECTIONS

TDE 3.0869 TRA 4.5477 TC3-1.7407 BAU .6731
 RDE .2340 RRA -.2795 RC3 .1245 FAU .03253
 FDE 3.1810 FRA 5.0215 FC3 -.9762 BSP 21366
 BOE 3.0958 BRA 4.5562 BC3 1.7452 FSP -2214

MID-COURSE EXECUTION ACCURACY

SGT 6621.2 SGR 437.7 SG3 602.2
 RRT -.4282 RRF -.4245 RTF .9904
 SGB 6635.7 R23 -.0013 R13 -.9904
 SG1 6623.9 SG2 395.4 THA 178.37

ORBIT DETERMINATION ACCURACY

ST 3674.4 SR 269.0 SS 1833.0
 CRT .6663 CRS -.6453 CST -.9996
 LSA 4109.9 MSA 206.5 SSA 12.8
 EL1 3678.8 EL2 200.3 ALF 2.80

LAUNCH DATE NOV 24 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 597.046

RL 147.68 LAL .00 LOL 61.78 VL 27.737 GAL 8.70 AZL 86.75 MCA 267.75 SMA 129.11 ECC .20765 INC 3.2511 V1 30.169
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.540 GAP 7.95 AZP 90.13 TAL 141.94 TAP 49.68 RCA 102.30 APO 155.91 V2 34.796
 RC 120.015 GL 16.31 GP 5.50 ZAL 35.27 ZAP 155.10 ETS 12.42 ZAE 120.86 ETE 175.28 ZAC 87.19 ETC 166.41 CLP-155.67

PLANETOCENTRIC CONIC

C3 30.654 VHL 5.537 DLA 26.68 RAL 21.64 RAD 6568.2 VEL 12.330 PTH 2.22 VHP 5.804 DPA -.48 RAP 353.51 ECC 1.5045
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 0 40 3364.71 -23.38 122.04 259.45 73.56 4 56 45 2764.7 -25.41 113.96
 90.00 1 11 46 3917.78 -8.94 156.11 253.48 63.02 2 17 4 3317.8 -12.49 149.23
 100.00 5 53 30 3000.96 -26.53 96.23 260.40 75.70 6 43 31 2401.0 -28.24 87.84
 100.00 2 1 38 3756.75 -6.06 142.73 251.93 60.67 3 4 14 3156.8 -9.92 136.07
 110.00 7 54 29 2622.41 -32.85 69.05 261.97 79.97 8 38 11 2022.4 -33.89 59.97
 110.00 2 17 8 3708.07 -.56 135.64 248.52 55.82 3 18 56 3108.1 -5.04 129.42

DIFFERENTIAL CORRECTIONS

TDE 3.1989 TRA 4.7923 TC3-1.6546 BAU .6796
 RDE .2620 RRA -.2611 RC3 .1110 FAU .02817
 FDE 2.9874 FRA 4.7922 FC3 -.7956 BSP 21788
 BOE 3.2096 BRA 4.7994 BC3 1.6583 FSP -2039

MID-COURSE EXECUTION ACCURACY

SGT 6717.2 SGR 424.4 SG3 554.2
 RRT -.3530 RRF -.3485 RTF .9900
 SGB 6730.6 R23 -.0023 R13 -.9900
 SG1 6718.9 SG2 397.0 THA 178.72

ORBIT DETERMINATION ACCURACY

ST 3706.0 SR 286.0 SS 1760.9
 CRT .7043 CRS -.6843 CST -.9996
 LSA 4107.7 MSA 208.5 SSA 12.7
 EL1 3711.4 EL2 202.7 ALF 3.12

LAUNCH DATE NOV 24 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 602.816

RL 147.68 LAL .00 LOL 61.78 VL 27.720 GAL 9.09 AZL 86.70 MCA 270.91 SMA 128.99 ECC .21316 INC 3.2983 V1 30.169
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.532 GAP 8.47 AZP 89.95 TAL 141.26 TAP 52.17 RCA 101.50 APO 156.49 V2 34.800
 RC 122.394 GL 15.99 GP 5.22 ZAL 34.62 ZAP 156.99 ETS 12.95 ZAE 120.10 ETE 175.52 ZAC 88.48 ETC 166.37 CLP-157.56

PLANETOCENTRIC CONIC

C3 32.670 VHL 5.716 DLA 26.60 RAL 22.36 RAD 6568.3 VEL 12.411 PTH 2.24 VHP 6.100 DPA -.22 RAP 354.78 ECC 1.5377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 5 27 3374.37 -23.19 122.69 261.33 73.28 5 1 41 2774.4 -25.26 114.63
 90.00 1 12 45 3940.15 -8.25 157.38 255.10 62.82 2 18 25 3340.2 -11.83 150.54
 100.00 5 57 43 3012.46 -26.34 97.03 262.30 75.33 6 47 55 2412.5 -28.10 88.67
 100.00 2 3 10 3777.30 -5.37 145.86 253.54 60.55 3 6 7 3177.3 -9.26 137.23
 110.00 7 58 11 2635.53 -32.69 70.04 263.94 79.41 8 42 6 2035.5 -33.81 60.98
 110.00 2 19 12 3726.99 .16 136.62 250.10 55.82 3 21 19 3127.0 -4.33 130.41

DIFFERENTIAL CORRECTIONS

TDE 3.3118 TRA 5.0501 TC3-1.5615 BAU .6834
 RDE .2896 RRA -.2430 RC3 .0986 FAU .02415
 FDE 2.8120 FRA 4.5871 FC3 -.6401 BSP 22165
 BOE 3.3244 BRA 5.0560 BC3 1.5646 FSP -1881

MID-COURSE EXECUTION ACCURACY

SGT 6801.7 SGR 413.8 SG3 510.6
 RRT -.2772 RRF -.2721 RTF .9896
 SGB 6814.3 R23 -.0033 R13 -.9896
 SG1 6802.7 SG2 397.5 THA 179.03

ORBIT DETERMINATION ACCURACY

ST 3729.5 SR 301.6 SS 1693.6
 CRT .7332 CRS -.7141 CST -.9996
 LSA 4101.7 MSA 210.2 SSA 12.6
 EL1 3736.1 EL2 204.7 ALF 3.40

LAUNCH DATE NOV 25 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 3 1969

HELIOCENTRIC CONIC

DISTANCE 125.346

RL 147.66 LAL .00 LOL 62.80 VL 14.780 GAL 34.86 AZL 88.03 MCA 31.02 SMA 84.04 ECC .84412 INC 1.9716 V1 30.174
 RP 107.63 LAP 1.02 LOP 93.80 VP 29.783 GAP -56.04 AZP 88.31 TAL 172.24 TAP 203.26 RCA 13.10 APO 154.98 V2 35.210
 RC 95.312 GL 1.19 GP -.84 ZAL 64.11 ZAP 37.12 ETS 176.92 ZAE 129.89 ETE 184.52 ZAC 47.52 ETC 157.75 CLP 37.11

PLANETOCENTRIC CONIC

C3 402.939 VHL 20.073 CLA .57 RAL 358.33 RAD 6572.1 VEL 22.896 PTH 3.27 VHP 30.798 DPA -20.97 RAP 314.36 ECC 7.6314
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 5 2838.31 -28.28 84.62 264.29 91.41 7 41 24 2238.3 -27.79 75.99
 90.00 19 0 37 5446.79 28.20 250.98 263.67 87.29 20 31 24 4846.8 27.52 242.38
 100.00 8 15 42 2575.07 -29.86 65.22 264.24 91.54 8 58 37 1975.1 -29.32 56.45
 100.00 20 21 42 5185.27 29.77 231.66 263.59 87.14 21 48 7 4585.3 29.05 222.93
 110.00 9 24 33 2359.54 -34.14 48.71 264.09 91.91 10 3 53 1759.5 -33.50 39.52
 110.00 21 29 20 4973.56 34.04 215.32 263.32 86.71 22 52 13 4373.6 33.21 206.18

DIFFERENTIAL CORRECTIONS

TDE -.9669 TRA-2.2782 TC3 -.1068 BAU .5762
 RDE -1.4164 RRA .7520 RC3 -.0064 FAU .01059
 FDE .3849 FRA .7648 FC3 -.0227 BSP 1998
 BOE 1.7150 BRA 2.3991 BC3 .1070 FSP -46

MID-COURSE EXECUTION ACCURACY

SGT 826.3 SGR 458.5 SG3 22.5
 RRT -.0449 RRF .0400 RTF -.6176
 SGB 945.0 R23 .0000 R13 .6177
 SG1 826.7 SG2 457.8 TMA 177.94

ORBIT DETERMINATION ACCURACY

ST 338.2 SR 409.4 SS 340.5
 CRT .7152 CRS .7675 CST .9952
 LSA 589.6 MSA 223.7 SSA 14.1
 EL1 493.5 EL2 196.1 ALF 52.52

LAUNCH DATE NOV 25 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 5 1969

HELIOCENTRIC CONIC

DISTANCE 130.565

RL 147.66 LAL .00 LOL 62.80 VL 15.602 GAL 33.10 AZL 87.87 MCA 34.26 SMA 85.39 ECC .81935 INC 2.1271 V1 30.174
 RP 107.60 LAP 1.20 LOP 97.03 VP 30.209 GAP -53.58 AZP 88.24 TAL 171.30 TAP 205.56 RCA 15.43 APO 155.36 V2 35.218
 RC 93.090 GL 1.44 GP -.86 ZAL 62.69 ZAP 35.58 ETS 176.91 ZAE 129.66 ETE 184.86 ZAC 49.13 ETC 158.36 CLP 35.57

PLANETOCENTRIC CONIC

C3 371.136 VHL 19.265 CLA 1.37 RAL 359.53 RAD 6572.0 VEL 22.191 PTH 3.24 VHP 29.723 DPA -20.57 RAP 316.13 ECC 7.1080
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 52 59 2854.73 -28.31 85.82 265.28 90.81 7 40 34 2254.7 -27.89 77.18
 90.00 19 11 17 5413.98 28.07 248.59 263.82 86.10 20 41 31 4814.0 27.23 240.02
 100.00 8 14 58 2590.30 -29.88 66.35 265.25 90.94 8 58 8 1990.3 -29.43 57.57
 100.00 20 32 0 5153.64 29.64 229.32 263.69 85.92 21 57 53 4553.6 28.76 220.63
 110.00 9 24 40 2372.12 -34.16 49.69 265.15 91.33 10 4 12 1772.1 -33.60 40.49
 110.00 21 38 47 4944.59 33.91 213.07 263.31 85.39 23 1 11 4344.6 32.90 203.98

DIFFERENTIAL CORRECTIONS

TDE -.9754 TRA-2.3041 TC3 -.1142 BAU .5677
 RDE -1.3755 RRA .7336 RC3 -.0074 FAU .01057
 FDE .4015 FRA .7931 FC3 -.0247 BSP 2124
 BOE 1.6862 BRA 2.4180 BC3 .1144 FSP -50

MID-COURSE EXECUTION ACCURACY

SGT 864.6 SGR 464.5 SG3 24.3
 RRT -.0458 RRF .0410 RTF -.6363
 SGB 981.5 R23 -.0001 R13 .6364
 SG1 864.9 SG2 463.8 TMA 178.02

ORBIT DETERMINATION ACCURACY

ST 355.8 SR 414.3 SS 356.6
 CRT .7138 CRS .7686 CST .9950
 LSA 610.2 MSA 229.8 SSA 14.3
 EL1 506.7 EL2 203.8 ALF 51.04

LAUNCH DATE NOV 25 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 7 1969

HELIOCENTRIC CONIC

DISTANCE 135.923

RL 147.66 LAL .00 LOL 62.80 VL 16.379 GAL 31.49 AZL 87.74 MCA 37.50 SMA 86.78 ECC .79419 INC 2.2587 V1 30.174
 RP 107.58 LAP 1.37 LOP 100.27 VP 30.625 GAP -51.25 AZP 88.21 TAL 170.36 TAP 207.86 RCA 17.86 APO 155.69 V2 35.225
 RC 90.872 GL 1.71 GP -.88 ZAL 61.33 ZAP 34.06 ETS 176.90 ZAE 129.50 ETE 185.22 ZAC 50.76 ETC 158.94 CLP 34.05

PLANETOCENTRIC CONIC

C3 342.033 VHL 18.494 CLA 2.15 RAL .68 RAD 6571.9 VEL 21.525 PTH 3.22 VHP 28.684 DPA -20.13 RAP 317.91 ECC 6.6290
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 51 45 2870.45 -28.32 86.97 266.19 90.23 7 39 35 2270.4 -27.98 78.32
 90.00 19 21 43 5380.97 27.89 246.19 263.90 84.91 20 51 24 4781.0 26.89 237.66
 100.00 8 14 6 2604.84 -29.89 67.43 266.18 90.37 8 57 30 2004.8 -29.52 58.65
 100.00 20 42 3 5121.81 29.46 226.97 263.73 84.69 22 7 25 4521.8 28.41 218.32
 110.00 9 24 38 2384.03 -34.18 50.62 266.13 90.77 10 4 22 1784.0 -33.69 41.41
 110.00 21 48 0 4915.38 33.73 210.81 263.24 84.06 23 9 55 4315.4 32.54 201.77

DIFFERENTIAL CORRECTIONS

TDE -.9839 TRA-2.3304 TC3 -.1218 BAU .5583
 RDE -1.3344 RRA .7143 RC3 -.0085 FAU .01057
 FDE .4183 FRA .8219 FC3 -.0268 BSP 2259
 BOE 1.6579 BRA 2.4374 BC3 .1221 FSP -55

MID-COURSE EXECUTION ACCURACY

SGT 904.4 SGR 470.0 SG3 26.1
 RRT -.0466 RRF .0420 RTF -.6543
 SGB 1019.2 R23 -.0002 R13 .6544
 SG1 904.7 SG2 469.3 TMA 178.10

ORBIT DETERMINATION ACCURACY

ST 374.3 SR 418.7 SS 372.9
 CRT .7123 CRS .7696 CST .9948
 LSA 631.4 MSA 235.7 SSA 14.6
 EL1 520.3 EL2 211.4 ALF 49.48

LAUNCH DATE NOV 25 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 9 1969

HELIOCENTRIC CONIC

DISTANCE 141.412

RL 147.66 LAL .00 LOL 62.80 VL 17.111 GAL 30.01 AZL 87.63 MCA 40.74 SMA 88.19 ECC .76881 INC 2.3724 V1 30.174
 RP 107.56 LAP 1.53 LOP 103.51 VP 31.030 GAP -49.04 AZP 88.20 TAL 169.43 TAP 210.16 RCA 20.39 APO 155.99 V2 35.232
 RC 88.659 GL 1.98 GP -.90 ZAL 60.01 ZAP 32.58 ETS 176.88 ZAE 129.40 ETE 185.59 ZAC 52.42 ETC 159.49 CLP 32.57

PLANETOCENTRIC CONIC

C3 315.362 VHL 17.758 CLA 2.93 RAL 1.78 RAD 6571.8 VEL 20.897 PTH 3.19 VHP 27.679 DPA -19.68 RAP 319.71 ECC 6.1901
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 50 22 2885.47 -28.32 88.07 267.00 89.68 7 38 28 2285.5 -28.06 79.42
 90.00 19 31 54 5347.71 27.67 243.78 263.90 83.72 21 1 2 4747.7 26.51 235.31
 100.00 8 13 5 2618.69 -29.89 68.46 267.01 89.83 8 56 43 2018.7 -29.60 59.67
 100.00 20 51 53 5089.73 29.24 224.61 263.70 83.47 22 16 42 4489.7 28.02 216.02
 110.00 9 24 28 2395.28 -34.18 51.90 267.01 90.26 10 4 23 1795.3 -33.77 42.28
 110.00 21 56 59 4885.91 33.49 208.54 263.10 82.74 23 18 25 4285.9 32.13 199.57

DIFFERENTIAL CORRECTIONS

TDE -.9925 TRA-2.3570 TC3 -.1297 BAU .5484
 RDE -1.2931 RRA .6941 RC3 -.0097 FAU .01058
 FDE .4354 FRA .8511 FC3 -.0290 BSP 2398
 BOE 1.6301 BRA 2.4571 BC3 .1301 FSP -60

MID-COURSE EXECUTION ACCURACY

SGT 945.8 SGR 474.9 SG3 28.1
 RRT -.0473 RRF .0428 RTF -.6718
 SGB 1058.4 R23 -.0004 R13 .6719
 SG1 946.2 SG2 474.2 TMA 178.18

ORBIT DETERMINATION ACCURACY

ST 393.6 SR 422.6 SS 389.7
 CRT .7109 CRS .7705 CST .9946
 LSA 653.4 MSA 241.3 SSA 14.8
 EL1 534.4 EL2 218.9 ALF 47.86

LAUNCH DATE NOV 25 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 11 1969

HELIOCENTRIC CONIC

DISTANCE 147.024

RL 147.66 LAL .00 LOL 62.80 VL 17.801 GAL 28.64 AZL 87.53 MCA 43.98 SMA 89.63 ECC .74339 INC 2.4721 V1 30.174
 RP 107.54 LAP 1.72 LOP 106.75 VP 31.423 GAP -46.95 AZP 88.22 TAL 168.49 TAP 212.47 RCA 23.00 APO 156.25 V2 35.238
 RC 86.453 GL 2.26 GP -.92 ZAL 58.74 ZAP 31.11 ETS 176.85 ZAE 129.36 ETE 185.99 ZAC 54.12 ETC 160.02 CLP 31.10

PLANETOCENTRIC CONIC

C3 290.887 VHL 17.055 DLA 3.70 RAL 2.84 RAD 6571.7 VEL 20.303 PTH 3.16 VHP 26.705 DPA -19.21 RAP 321.53 ECC 5.7873
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 48 51 2899.83 -28.31 89.12 267.73 89.16 7 37 11 2299.8 -28.12 80.46
 90.00 19 41 52 5314.16 27.39 241.36 263.85 82.54 21 10 26 4714.2 26.08 232.94
 100.00 8 11 55 2631.87 -29.89 69.44 267.76 89.32 8 55 47 2031.9 -29.66 60.64
 100.00 21 1 29 5057.35 28.96 222.24 263.61 82.25 22 25 46 4457.3 27.59 213.71
 110.00 9 24 8 2405.85 -34.18 52.32 267.80 89.77 10 4 14 1805.9 -33.84 43.09
 110.00 22 5 45 4856.13 33.21 206.26 262.90 81.41 23 26 41 4256.1 31.67 197.37

DIFFERENTIAL CORRECTIONS

TDE-1.0011 TRA-2.3835 TC3 -.1378 BAU .5377
 RDE-1.2516 RRA .6732 RC3 -.0111 FAU .01060
 FDE .4529 FRA .8808 FC3 -.0316 BSP 2545
 BOE 1.6027 BRA 2.4768 BC3 .1383 FSP -66

MID-COURSE EXECUTION ACCURACY

SGT 988.9 SGR 479.2 SG3 30.3
 RRT -.0478 RRF .0436 RTF -.6886
 SGB 1098.9 R23 -.0006 R13 .6887
 SG1 989.3 SG2 478.4 THA 178.27

ORBIT DETERMINATION ACCURACY

ST 413.8 SR 425.9 SS 406.7
 CRT .7095 CRS .7714 CST .9944
 LSA 676.1 MSA 246.5 SSA 15.0
 EL1 549.1 EL2 226.2 ALF 46.16

LAUNCH DATE NOV 25 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC

DISTANCE 152.751

RL 147.66 LAL .00 LOL 62.80 VL 18.452 GAL 27.36 AZL 87.44 MCA 47.22 SMA 91.08 ECC .71805 INC 2.5607 V1 30.174
 RP 107.53 LAP 1.88 LOP 109.99 VP 31.802 GAP -44.96 AZP 88.26 TAL 167.57 TAP 214.79 RCA 25.68 APO 156.48 V2 35.243
 RC 84.254 GL 2.56 GP -.95 ZAL 57.52 ZAP 29.67 ETS 176.80 ZAE 129.40 ETE 186.40 ZAC 55.83 ETC 160.52 CLP 29.65

PLANETOCENTRIC CONIC

C3 268.405 VHL 16.383 DLA 4.46 RAL 3.86 RAD 6571.6 VEL 19.741 PTH 3.12 VHP 25.762 DPA -18.71 RAP 323.36 ECC 5.4173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 10 2913.52 -28.29 90.12 268.37 88.65 7 35 44 2313.5 -28.17 81.46
 90.00 19 51 38 5280.28 27.07 238.94 263.72 81.36 21 19 38 4680.3 25.60 230.58
 100.00 8 10 37 2644.40 -29.87 70.37 268.41 88.83 8 54 41 2044.4 -29.71 61.57
 100.00 21 10 52 5024.63 28.64 219.86 263.45 81.04 22 34 37 4424.6 27.10 211.40
 110.00 9 23 39 2415.78 -34.18 53.10 268.49 89.31 10 3 55 1815.8 -33.90 43.86
 110.00 22 14 19 4826.02 32.89 203.97 262.63 80.10 23 34 45 4226.0 31.17 195.17

DIFFERENTIAL CORRECTIONS

TDE-1.0094 TRA-2.4096 TC3 -.1461 BAU .5263
 RDE-1.2100 RRA .6517 RC3 -.0126 FAU .01064
 FDE .4707 FRA .9111 FC3 -.0343 BSP 2705
 BOE 1.5758 BRA 2.4962 BC3 .1467 FSP -72

MID-COURSE EXECUTION ACCURACY

SGT 1033.6 SGR 482.8 SG3 32.5
 RRT -.0482 RRF .0442 RTF -.7048
 SGB 1140.8 R23 -.0007 R13 .7049
 SG1 1033.9 SG2 482.0 THA 178.35

ORBIT DETERMINATION ACCURACY

ST 434.9 SR 428.7 SS 424.1
 CRT .7081 CRS .7723 CST .9942
 LSA 699.5 MSA 251.5 SSA 15.2
 EL1 564.4 EL2 233.3 ALF 44.42

LAUNCH DATE NOV 25 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

DISTANCE 158.586

RL 147.66 LAL .00 LOL 62.80 VL 19.065 GAL 26.16 AZL 87.36 MCA 50.47 SMA 92.54 ECC .69291 INC 2.6405 V1 30.174
 RP 107.51 LAP 2.04 LOP 113.23 VP 32.167 GAP -43.06 AZP 88.32 TAL 166.65 TAP 217.12 RCA 28.42 APO 156.66 V2 35.247
 RC 82.065 GL 2.87 GP -.98 ZAL 56.35 ZAP 28.24 ETS 176.74 ZAE 129.50 ETE 186.83 ZAC 57.57 ETC 160.99 CLP 28.22

PLANETOCENTRIC CONIC

C3 247.733 VHL 15.740 DLA 5.22 RAL 4.82 RAD 6571.4 VEL 19.211 PTH 3.09 VHP 24.846 DPA -18.20 RAP 325.19 ECC 5.0771
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 20 2926.58 -28.26 91.08 268.92 88.18 7 34 7 2326.6 -28.22 82.41
 90.00 20 1 11 5246.01 26.70 236.50 263.54 80.19 21 28 37 4646.0 25.07 228.21
 100.00 8 9 8 2656.28 -29.85 71.25 268.97 88.36 8 53 24 2056.3 -29.76 62.45
 100.00 21 20 4 4991.54 28.26 217.48 263.23 79.84 22 43 16 4391.5 26.57 209.08
 110.00 9 23 1 2425.06 -34.17 53.82 269.10 88.88 10 3 26 1825.1 -33.94 44.58
 110.00 22 22 41 4795.53 32.51 201.67 262.30 78.79 23 42 36 4195.5 30.62 192.96

DIFFERENTIAL CORRECTIONS

TDE-1.0176 TRA-2.4351 TC3 -.1546 BAU .5142
 RDE-1.1684 RRA .6295 RC3 -.0143 FAU .01070
 FDE .4891 FRA .9420 FC3 -.0374 BSP 2873
 BOE 1.5494 BRA 2.5152 BC3 .1552 FSP -79

MID-COURSE EXECUTION ACCURACY

SGT 1080.0 SGR 485.7 SG3 35.0
 RRT -.0485 RRF .0447 RTF -.7204
 SGB 1184.2 R23 -.0009 R13 .7205
 SG1 1080.3 SG2 485.0 THA 178.44

ORBIT DETERMINATION ACCURACY

ST 456.9 SR 430.9 SS 441.9
 CRT .7068 CRS .7732 CST .9939
 LSA 723.9 MSA 256.0 SSA 15.3
 EL1 580.4 EL2 240.0 ALF 42.63

LAUNCH DATE NOV 25 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

DISTANCE 164.523

RL 147.66 LAL .00 LOL 62.80 VL 19.644 GAL 25.02 AZL 87.29 MCA 53.71 SMA 94.01 ECC .66808 INC 2.7132 V1 30.174
 RP 107.50 LAP 2.19 LOP 116.48 VP 32.517 GAP -41.25 AZP 88.39 TAL 165.74 TAP 219.46 RCA 31.20 APO 156.81 V2 35.251
 RC 79.887 GL 3.19 GP -1.01 ZAL 55.22 ZAP 26.83 ETS 176.67 ZAE 129.67 ETE 187.29 ZAC 59.34 ETC 161.44 CLP 26.82

PLANETOCENTRIC CONIC

C3 228.712 VHL 15.123 DLA 5.96 RAL 5.75 RAD 6571.3 VEL 18.709 PTH 3.06 VHP 23.958 DPA -17.66 RAP 327.04 ECC 4.7640
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 43 20 2939.02 -28.23 91.99 269.38 87.72 7 32 19 2339.0 -28.25 83.32
 90.00 20 10 33 5211.32 26.27 234.05 263.29 79.04 21 37 24 4611.3 24.49 225.83
 100.00 8 7 30 2667.54 -29.83 72.09 269.44 87.92 8 51 57 2067.5 -29.80 63.29
 100.00 21 29 4 4958.03 27.84 215.08 262.94 78.64 22 51 42 4358.0 25.99 206.76
 110.00 9 22 13 2433.70 -34.15 54.50 269.60 88.48 10 2 46 1833.7 -33.99 45.26
 110.00 22 30 50 4764.63 32.07 199.37 261.91 77.49 23 50 15 4164.6 30.02 190.76

DIFFERENTIAL CORRECTIONS

TDE-1.0255 TRA-2.4597 TC3 -.1632 BAU .5013
 RDE-1.1268 RRA .6069 RC3 -.0161 FAU .01077
 FDE .5079 FRA .9735 FC3 -.0408 BSP 3056
 BOE 1.5236 BRA 2.5335 BC3 .1640 FSP -86

MID-COURSE EXECUTION ACCURACY

SGT 1128.0 SGR 487.9 SG3 37.6
 RRT -.0486 RRF .0450 RTF -.7354
 SGB 1229.0 R23 -.0011 R13 .7354
 SG1 1128.3 SG2 487.2 THA 178.52

ORBIT DETERMINATION ACCURACY

ST 479.8 SR 432.5 SS 460.2
 CRT .7055 CRS .7741 CST .9937
 LSA 749.1 MSA 260.1 SSA 15.5
 EL1 597.1 EL2 246.3 ALF 40.81

LAUNCH DATE NOV 25 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 170.555

RL 147.66 LAL .00 LOL 62.80 VL 20.189 GAL 23.95 AZL 87.22 MCA 56.96 SMA 95.47 ECC .64364 INC 2.7801 V1 30.174
 RP 107.49 LAP 2.33 LOP 119.73 VP 32.852 GAP -39.51 AZP 88.48 TAL 164.85 TAP 221.81 RCA 34.02 APO 156.93 V2 35.254
 RC 77.721 GL 3.53 GP -1.05 ZAL 54.14 ZAP 25.44 ETS 176.57 ZAE 129.91 ETE 187.76 ZAC 61.12 ETC 161.87 CLP 25.42

PLANETOCENTRIC CONIC

C3 211.203 VHL 14.533 OLA 6.71 RAL 6.62 RAD 6571.2 VEL 18.235 PTH 3.02 VHP 23.096 DPA -17.10 RAP 328.90 ECC 4.4759
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 41 8 2950.88 -28.20 92.85 269.74 87.29 7 30 19 2350.9 -28.28 84.19
 90.00 20 19 45 5176.16 25.79 231.58 262.98 77.89 21 46 1 4576.2 23.87 223.45
 100.00 8 5 41 2678.20 -29.80 72.88 269.83 87.51 8 50 19 2078.2 -29.83 64.08
 100.00 21 37 53 4924.07 27.36 212.67 262.60 77.46 22 59 57 4324.1 25.36 204.44
 110.00 9 21 14 2441.74 -34.14 55.12 270.02 88.11 10 1 56 1841.7 -34.02 45.88
 110.00 22 38 49 4733.30 31.59 197.05 261.46 76.20 23 57 42 4133.3 29.37 188.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0366 TRA-2.4868 TC3 -.1725 BAU .4898 SGT 1180.2 SGR 489.4 SG3 40.5 ST 504.9 SR 433.5 SS 479.3
 RDE-1.0852 RRA .5840 RC3 -.0181 FAU .01085 RRT -.0479 RRF .0451 RTF -.7496 CRT .7049 CRS .7752 CST .9935
 FDE .5278 FRA 1.0061 FC3 -.0445 BSP 3162 SGB 1277.7 R23 -.0010 R13 .7497 LSA 776.4 MSA 263.7 SSA 15.7
 BOE 1.5007 BRA 2.5544 BC3 .1735 FSP -93 SGI 1180.5 SG2 488.8 THA 178.63 EL1 615.9 EL2 252.1 ALF 38.87

LAUNCH DATE NOV 25 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 176.677

RL 147.66 LAL .00 LOL 62.80 VL 20.702 GAL 22.93 AZL 87.16 MCA 60.21 SMA 96.94 ECC .61966 INC 2.8422 V1 30.174
 RP 107.48 LAP 2.47 LOP 122.97 VP 33.173 GAP -37.86 AZP 88.59 TAL 163.97 TAP 224.18 RCA 36.87 APO 157.01 V2 35.256
 RC 75.571 GL 3.88 GP -1.08 ZAL 53.11 ZAP 24.07 ETS 176.45 ZAE 130.23 ETE 188.27 ZAC 62.92 ETC 162.27 CLP 24.05

PLANETOCENTRIC CONIC

C3 195.080 VHL 13.967 OLA 7.45 RAL 7.46 RAD 6571.1 VEL 17.788 PTH 2.99 VHP 22.259 DPA -16.53 RAP 330.76 ECC 4.2105
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 38 45 2962.19 -28.16 93.68 270.02 86.88 7 28 8 2362.2 -28.29 85.02
 90.00 20 28 46 5140.49 25.26 229.11 262.62 76.76 21 54 27 4540.5 23.19 221.05
 100.00 8 3 40 2688.31 -29.77 73.63 270.11 87.11 8 48 29 2088.3 -29.85 64.83
 100.00 21 46 32 4889.61 26.83 210.24 262.20 76.29 23 8 2 4289.6 24.67 202.10
 110.00 9 20 5 2449.19 -34.12 55.71 270.34 87.76 10 0 54 1849.2 -34.05 46.46
 110.00 22 46 37 4701.49 31.05 194.73 260.97 74.92 24 4 59 4101.5 28.67 186.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0546 TRA-2.5196 TC3 -.1835 BAU .4814 SGT 1239.5 SGR 490.2 SG3 43.6 ST 534.0 SR 433.8 SS 499.6
 RDE-1.0437 RRA .5608 RC3 -.0202 FAU .01090 RRT -.0455 RRF .0446 RTF -.7630 CRT .7058 CRS .7765 CST .9935
 FDE .5494 FRA 1.0405 FC3 -.0484 BSP 3111 SGB 1332.9 R23 -.0034 R13 .7631 LSA 807.2 MSA 266.6 SSA 15.9
 BOE 1.4837 BRA 2.5813 BC3 .1846 FSP -99 SGI 1239.7 SG2 489.6 THA 178.78 EL1 638.1 EL2 257.2 ALF 36.73

LAUNCH DATE NOV 25 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 182.867

RL 147.66 LAL .00 LOL 62.80 VL 21.187 GAL 21.96 AZL 87.10 MCA 63.46 SMA 98.40 ECC .59614 INC 2.9004 V1 30.174
 RP 107.48 LAP 2.59 LOP 126.22 VP 33.479 GAP -36.26 AZP 88.70 TAL 163.11 TAP 226.57 RCA 39.74 APO 157.06 V2 35.258
 RC 73.439 GL 4.25 GP -1.12 ZAL 52.13 ZAP 22.71 ETS 176.29 ZAE 130.63 ETE 188.80 ZAC 64.74 ETC 162.66 CLP 22.68

PLANETOCENTRIC CONIC

C3 180.151 VHL 13.422 OLA 8.18 RAL 8.24 RAD 6570.9 VEL 17.363 PTH 2.96 VHP 21.444 DPA -15.94 RAP 332.62 ECC 3.9648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 36 10 2972.88 -28.12 94.46 270.19 86.49 7 25 42 2372.9 -28.31 85.80
 90.00 20 37 36 5104.26 24.67 226.62 262.19 75.64 22 2 40 4504.3 22.46 218.65
 100.00 8 1 27 2697.77 -29.73 74.33 270.30 86.75 8 46 25 2097.8 -29.87 65.53
 100.00 21 54 59 4854.60 26.24 207.81 261.74 75.14 23 15 54 4254.6 23.94 199.76
 110.00 9 18 43 2455.98 -34.10 56.23 270.56 87.45 9 59 39 1856.0 -34.08 46.99
 110.00 22 54 13 4669.15 30.45 192.40 260.40 73.66 24 12 2 4069.2 27.91 184.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9066 TRA-2.3847 TC3 -.1580 BAU .3846 SGT 1177.9 SGR 490.6 SG3 46.2 ST 495.1 SR 434.0 SS 503.3
 RDE-1.0035 RRA .5357 RC3 -.0229 FAU .01196 RRT -.0791 RRF .0532 RTF -.7832 CRT .6722 CRS .7732 CST .9883
 FDE .5502 FRA 1.0546 FC3 -.0575 BSP 7038 SGB 1276.0 R23 .0217 R13 .7829 LSA 782.1 MSA 273.6 SSA 14.9
 BOE 1.3524 BRA 2.4441 BC3 .1597 FSP -150 SGI 1178.7 SG2 488.7 THA 177.72 EL1 603.3 EL2 263.7 ALF 39.44

LAUNCH DATE NOV 25 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 189.158

RL 147.66 LAL .00 LOL 62.80 VL 21.643 GAL 21.04 AZL 87.04 MCA 66.70 SMA 99.84 ECC .57330 INC 2.9555 V1 30.174
 RP 107.48 LAP 2.71 LOP 129.47 VP 33.770 GAP -34.74 AZP 88.83 TAL 162.27 TAP 228.97 RCA 42.60 APO 157.08 V2 35.259
 RC 71.328 GL 4.63 GP -1.17 ZAL 51.18 ZAP 21.36 ETS 176.10 ZAE 131.11 ETE 189.37 ZAC 66.57 ETC 163.02 CLP 21.33

PLANETOCENTRIC CONIC

C3 166.516 VHL 12.904 OLA 8.91 RAL 8.99 RAD 6570.8 VEL 16.966 PTH 2.92 VHP 20.656 DPA -15.34 RAP 334.48 ECC 3.7404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 33 22 2983.30 -28.07 95.22 270.29 86.11 7 23 6 2383.3 -28.31 86.56
 90.00 20 46 21 5067.45 24.03 224.11 261.73 74.55 22 10 49 4467.5 21.68 216.23
 100.00 7 59 3 2706.94 -29.69 75.01 270.42 86.39 8 44 10 2106.9 -29.88 66.21
 100.00 22 3 21 4819.05 25.59 205.36 261.24 74.00 23 23 40 4219.0 23.15 197.41
 110.00 9 17 12 2462.42 -34.08 56.74 270.71 87.16 9 58 14 1862.4 -34.10 47.49
 110.00 23 1 42 4636.33 29.80 190.07 259.81 72.42 24 18 59 4036.3 27.11 181.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0375 TRA-2.5283 TC3 -.1938 BAU .4351 SGT 1324.3 SGR 489.6 SG3 50.3 ST 573.3 SR 432.5 SS 536.7
 RDE -.9615 RRA .5134 RC3 -.0252 FAU .01138 RRT -.0508 RRF .0460 RTF -.7899 CRT .6982 CRS .7778 CST .9921
 FDE .5881 FRA 1.1054 FC3 -.0592 BSP 4292 SGB 1411.9 R23 .0005 R13 .7899 LSA 854.0 MSA 272.3 SSA 16.0
 BOE 1.4145 BRA 2.5799 BC3 .1955 FSP -127 SGI 1324.5 SG2 488.9 THA 178.75 EL1 667.0 EL2 266.1 ALF 33.88

LAUNCH DATE NOV 25 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 195.509

RL 147.66 LAL .00 LOL 62.80 VL 22.072 GAL 20.16 AZL 86.99 MCA 69.95 SMA 101.27 ECC .55104 INC 3.0079 V1 30.174
 RP 107.48 LAP 2.83 LOP 132.72 VP 34.047 GAP -33.27 AZP 88.97 TAL 161.44 TAP 231.39 RCA 45.47 APO 157.08 V2 35.259
 RC 69.241 GL 5.03 GP -1.22 ZAL 50.29 ZAP 20.02 ETS 175.86 ZAE 131.68 ETE 189.97 ZAC 68.42 ETC 163.37 CLP 19.99

PLANETOCENTRIC CONIC

C3 153.904 VHL 12.406 CLA 9.64 RAL 9.68 RAD 6570.7 VEL 16.590 PTH 2.88 VHP 19.889 DPA -14.72 RAP 336.35 ECC 3.5329
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 30 21 2993.24 -28.02 95.94 270.30 85.75 7 20 14 2393.2 -28.32 87.29
 90.00 20 54 57 5030.02 23.33 221.59 261.21 73.47 22 18 47 4430.0 20.84 213.80
 100.00 7 56 26 2715.60 -29.65 75.65 270.43 86.06 8 41 41 2115.6 -29.89 66.86
 100.00 22 11 33 4782.89 24.89 202.91 260.69 72.89 23 31 16 4182.9 22.31 195.06
 110.00 9 15 27 2468.30 -34.06 57.20 270.75 86.89 9 56 35 1868.3 -34.11 47.95
 110.00 23 9 1 4602.95 29.09 187.73 259.17 71.20 24 25 44 4003.0 26.25 179.70

DIFFERENTIAL CORRECTIONS

TDE-1.0540 TRA-2.5554 TC3 -.2045 BAU .4247
 RDE -.9206 RRA .4898 RC3 -.0280 FAU .01151
 FDE .6123 FRA 1.1427 FC3 -.0647 BSP 4291
 BOE 1.3994 BRA 2.6019 BC3 .2064 FSP -135

MID-COURSE EXECUTION ACCURACY

SGT 1388.3 SGR 488.1 SG3 54.1
 RRT -.0479 RRF .0450 RTF -.8015
 SGB 1471.6 R23 -.0012 R13 .8015
 SG1 1388.6 SG2 487.5 THA 178.90

ORBIT DETERMINATION ACCURACY

ST 605.1 SR 430.7 SS 558.9
 CRT .6994 CRS .7793 CST .9921
 LSA 888.2 MSA 273.5 SSA 16.1
 EL1 692.3 EL2 269.1 ALF 31.82

LAUNCH DATE NOV 25 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 201.925

RL 147.66 LAL .00 LOL 62.80 VL 22.476 GAL 19.32 AZL 86.94 MCA 73.20 SMA 102.68 ECC .52941 INC 3.0582 V1 30.174
 RP 107.48 LAP 2.93 LOP 135.97 VP 34.310 GAP -31.87 AZP 89.12 TAL 160.64 TAP 233.84 RCA 48.32 APO 157.05 V2 35.258
 RC 67.184 GL 5.44 GP -1.27 ZAL 49.45 ZAP 18.70 ETS 175.55 ZAE 132.34 ETE 190.61 ZAC 70.27 ETC 163.70 CLP 18.66

PLANETOCENTRIC CONIC

C3 142.279 VHL 11.928 CLA 10.37 RAL 10.34 RAD 6570.5 VEL 16.236 PTH 2.85 VHP 19.143 DPA -14.08 RAP 338.22 ECC 3.3416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 27 4 3002.82 -27.97 96.64 270.22 85.40 7 17 7 2402.8 -28.32 87.99
 90.00 21 3 26 4991.92 22.56 219.06 260.64 72.42 22 26 38 4391.9 19.95 211.36
 100.00 7 53 34 2723.87 -29.61 76.26 270.36 85.74 8 38 58 2123.9 -29.89 67.47
 100.00 22 19 38 4746.10 24.13 200.44 260.09 71.80 23 38 44 4146.1 21.42 192.69
 110.00 9 13 30 2473.74 -34.04 57.62 270.71 86.64 9 54 43 1873.7 -34.13 48.37
 110.00 23 16 11 4569.00 28.32 185.38 258.48 70.01 24 32 20 3969.0 25.33 177.48

DIFFERENTIAL CORRECTIONS

TDE-1.0635 TRA-2.5738 TC3 -.2134 BAU .4103
 RDE -.8801 RRA .4663 RC3 -.0310 FAU .01170
 FDE .6367 FRA 1.1803 FC3 -.0712 BSP 4461
 BOE 1.3805 BRA 2.6157 BC3 .2157 FSP -146

MID-COURSE EXECUTION ACCURACY

SGT 1449.1 SGR 485.8 SG3 58.3
 RRT -.0463 RRF .0443 RTF -.8128
 SGB 1528.4 R23 -.0019 R13 .8128
 SG1 1449.3 SG2 485.3 THA 179.00

ORBIT DETERMINATION ACCURACY

ST 635.1 SR 428.2 SS 581.2
 CRT .6995 CRS .7807 CST .9919
 LSA 921.4 MSA 274.4 SSA 16.3
 EL1 716.3 EL2 271.4 ALF 29.98

LAUNCH DATE NOV 25 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 208.400

RL 147.66 LAL .00 LOL 62.80 VL 22.857 GAL 18.52 AZL 86.89 MCA 76.45 SMA 104.07 ECC .50846 INC 3.1067 V1 30.174
 RP 107.48 LAP 3.02 LOP 139.22 VP 34.559 GAP -30.51 AZP 89.27 TAL 159.86 TAP 236.31 RCA 51.16 APO 156.99 V2 35.257
 RC 65.159 GL 5.88 GP -1.33 ZAL 48.66 ZAP 17.38 ETS 175.17 ZAE 133.09 ETE 191.30 ZAC 72.14 ETC 164.01 CLP 17.33

PLANETOCENTRIC CONIC

C3 131.569 VHL 11.470 CLA 11.09 RAL 10.94 RAD 6570.4 VEL 15.903 PTH 2.81 VHP 18.419 DPA -13.44 RAP 340.09 ECC 3.1653
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 23 32 3012.13 -27.92 97.31 270.04 85.07 7 13 44 2412.1 -28.31 88.67
 90.00 21 11 49 4953.13 21.74 216.51 260.03 71.40 22 34 22 4353.1 19.00 208.91
 100.00 7 50 27 2731.83 -29.57 76.85 270.20 85.43 8 35 59 2131.8 -29.89 68.06
 100.00 22 27 35 4708.66 23.31 197.96 259.45 70.74 23 46 4 4108.7 20.47 190.31
 110.00 9 11 19 2478.79 -34.02 58.01 270.57 86.40 9 52 37 1878.8 -34.14 48.77
 110.00 23 23 13 4534.46 27.49 183.04 257.75 68.84 24 38 47 3934.5 24.37 175.26

DIFFERENTIAL CORRECTIONS

TDE-1.0730 TRA-2.5901 TC3 -.2222 BAU .3955
 RDE -.8400 RRA .4429 RC3 -.0342 FAU .01193
 FDE .6625 FRA 1.2193 FC3 -.0785 BSP 4639
 BOE 1.3627 BRA 2.6277 BC3 .2248 FSP -159

MID-COURSE EXECUTION ACCURACY

SGT 1511.8 SGR 482.8 SG3 62.7
 RRT -.0443 RRF .0434 RTF -.8235
 SGB 1587.0 R23 -.0028 R13 .8235
 SG1 1511.9 SG2 482.2 THA 179.10

ORBIT DETERMINATION ACCURACY

ST 666.3 SR 425.0 SS 604.3
 CRT .6998 CRS .7822 CST .9917
 LSA 956.1 MSA 274.6 SSA 16.4
 EL1 741.8 EL2 272.7 ALF 28.20

LAUNCH DATE NOV 25 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 214.929

RL 147.66 LAL .00 LOL 62.80 VL 23.215 GAL 17.75 AZL 86.85 MCA 79.69 SMA 105.44 ECC .48820 INC 3.1540 V1 30.174
 RP 107.49 LAP 3.10 LOP 142.47 VP 34.794 GAP -29.20 AZP 89.44 TAL 159.11 TAP 238.80 RCA 53.96 APO 156.91 V2 35.254
 RC 63.173 GL 6.33 GP -1.39 ZAL 47.91 ZAP 16.07 ETS 174.70 ZAE 133.95 ETE 192.04 ZAC 74.02 ETC 164.31 CLP 16.01

PLANETOCENTRIC CONIC

C3 121.702 VHL 11.032 CLA 11.82 RAL 11.51 RAD 6570.3 VEL 15.590 PTH 2.78 VHP 17.716 DPA -12.79 RAP 341.95 ECC 3.0029
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 43 3021.25 -27.86 97.97 269.79 84.74 7 10 5 2421.2 -28.30 89.34
 90.00 21 20 6 4913.61 20.86 213.95 259.38 70.41 22 42 0 4313.6 18.00 206.44
 100.00 7 47 4 2739.54 -29.53 77.42 269.96 85.13 8 32 44 2139.5 -29.89 68.64
 100.00 22 35 27 4670.55 22.44 195.47 258.77 69.71 23 53 17 4070.5 19.47 187.92
 110.00 9 8 53 2483.52 -34.00 58.38 270.35 86.19 9 50 17 1883.5 -34.15 49.14
 110.00 23 30 7 4499.33 26.61 180.69 256.98 67.71 24 45 6 3899.3 23.35 173.04

DIFFERENTIAL CORRECTIONS

TDE-1.0795 TRA-2.6014 TC3 -.2298 BAU .3788
 RDE -.8004 RRA .4198 RC3 -.0377 FAU .01220
 FDE .6893 FRA 1.2595 FC3 -.0868 BSP 4894
 BOE 1.3438 BRA 2.6351 BC3 .2328 FSP -173

MID-COURSE EXECUTION ACCURACY

SGT 1573.8 SGR 478.9 SG3 67.6
 RRT -.0429 RRF .0426 RTF -.8339
 SGB 1645.0 R23 -.0032 R13 .8339
 SG1 1573.9 SG2 478.4 THA 179.18

ORBIT DETERMINATION ACCURACY

ST 697.2 SR 421.0 SS 628.1
 CRT .6998 CRS .7837 CST .9915
 LSA 991.1 MSA 274.3 SSA 16.5
 EL1 767.2 EL2 273.3 ALF 26.54

LAUNCH DATE NOV 25 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 62.80 VL 23.552 GAL 17.01 AZL 86.80 MCA 82.94 SMA 106.77 ECC .46865 INC 3.2003 V1 30.174
 RP 107.50 LAP 3.18 LOP 145.72 VP 35.017 GAP -27.94 AZP 89.61 TAL 158.38 TAP 241.32 RCA 56.73 APO 156.81 V2 35.251
 RC 61.231 GL 6.80 GP -1.46 ZAL 47.22 ZAP 14.77 ETS 174.09 ZAE 134.91 ETE 192.84 ZAC 75.90 ETC 164.59 CLP 14.70

PLANETOCENTRIC CONIC

C3 112.618 VHL 10.612 DLA 12.55 RAL 12.02 RAD 6570.1 VEL 15.296 PTH 2.74 VHP 17.032 DPA -12.13 RAP 343.81 ECC 2.8534
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 15 37 3030.27 -27.81 98.63 269.45 84.42 7 6 7 2430.3 -28.29 89.99
 90.00 21 28 20 4873.34 19.92 211.37 258.70 69.45 22 49 33 4273.3 16.95 203.96
 100.00 7 43 25 2747.10 -29.48 77.98 269.63 84.84 8 29 12 2147.1 -29.89 69.20
 100.00 22 43 13 4631.74 21.50 192.96 258.05 68.72 24 0 25 4031.7 18.42 185.53
 110.00 9 6 13 2488.00 -33.97 58.73 270.05 85.98 9 47 41 1888.0 -34.16 49.49
 110.00 23 36 54 4463.60 25.66 178.34 256.19 66.61 24 51 18 3863.6 22.28 170.82

DIFFERENTIAL CORRECTIONS

TOE -1.0892 TRA -2.6137 TC3 -.2380 BAU .3636
 RDE -.7612 RRA .3970 RC3 -.0413 FAU .01248
 FDE .7183 FRA 1.3018 FC3 -.0959 BSP 5076
 BOE 1.3289 BRA 2.6437 BC3 .2415 FSP -188

MID-COURSE EXECUTION ACCURACY

SGT 1640.4 SGR 474.2 SG3 72.8
 RRT -.0404 RRF .0415 RTF -.8435
 SGB 1707.6 R23 -.0043 R13 .8435
 SG1 1640.5 SG2 473.7 TMA 179.27

ORBIT DETERMINATION ACCURACY

ST 730.9 SR 416.2 SS 653.3
 CRT .7007 CRS .7854 CST .9913
 LSA 1029.3 MSA 273.2 SSA 16.6
 EL1 795.6 EL2 272.8 ALF 24.88

LAUNCH DATE NOV 25 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 62.80 VL 23.869 GAL 16.31 AZL 86.75 MCA 86.19 SMA 108.08 ECC .44981 INC 3.2459 V1 30.174
 RP 107.51 LAP 3.24 LOP 148.97 VP 35.227 GAP -26.73 AZP 89.78 TAL 157.68 TAP 243.87 RCA 59.46 APO 156.70 V2 35.248
 RC 59.358 GL 7.30 GP -1.54 ZAL 46.57 ZAP 13.47 ETS 173.32 ZAE 135.97 ETE 193.71 ZAC 77.79 ETC 164.85 CLP 13.39

PLANETOCENTRIC CONIC

C3 104.255 VHL 10.211 DLA 13.28 RAL 12.49 RAD 6570.0 VEL 15.020 PTH 2.70 VHP 16.368 DPA -11.46 RAP 345.67 ECC 2.7158
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 11 3039.28 -27.74 99.28 269.03 84.10 7 1 50 2439.3 -28.27 90.65
 90.00 21 36 30 4832.29 18.92 208.78 257.98 68.53 22 57 2 4232.3 15.84 201.46
 100.00 7 39 27 2754.60 -29.44 78.53 269.22 84.56 8 25 22 2154.6 -29.88 69.76
 100.00 22 50 55 4592.20 20.50 190.45 257.31 67.76 24 7 27 3992.2 17.30 183.12
 110.00 9 3 17 2492.30 -33.95 59.06 269.67 85.78 9 44 49 1892.3 -34.16 49.82
 110.00 23 43 34 4427.27 24.66 175.99 255.36 65.54 24 57 22 3827.3 21.15 168.60

DIFFERENTIAL CORRECTIONS

TDE -1.0966 TRA -2.6210 TC3 -.2447 BAU .3468
 RDE -.7226 RRA .3746 RC3 -.0453 FAU .01282
 FDE .7489 FRA 1.3455 FC3 -.1064 BSP 5323
 BOE 1.3133 BRA 2.6476 BC3 .2489 FSP -204

MID-COURSE EXECUTION ACCURACY

SGT 1706.5 SGR 468.6 SG3 78.5
 RRT -.0384 RRF .0405 RTF -.8528
 SGB 1769.6 R23 -.0051 R13 .8528
 SG1 1706.6 SG2 468.3 TMA 179.35

ORBIT DETERMINATION ACCURACY

ST 764.5 SR 410.7 SS 679.5
 CRT .7014 CRS .7872 CST .9911
 LSA 1068.0 MSA 271.5 SSA 16.6
 EL1 824.2 EL2 271.5 ALF 23.32

LAUNCH DATE NOV 25 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 62.80 VL 24.166 GAL 15.63 AZL 86.71 MCA 89.43 SMA 109.35 ECC .43170 INC 3.2912 V1 30.174
 RP 107.52 LAP 3.29 LOP 152.23 VP 35.425 GAP -25.56 AZP 89.97 TAL 157.01 TAP 246.44 RCA 62.15 APO 156.56 V2 35.243
 RC 57.501 GL 7.81 GP -1.62 ZAL 45.98 ZAP 12.18 ETS 172.33 ZAE 137.15 ETE 194.66 ZAC 79.68 ETC 165.10 CLP 12.08

PLANETOCENTRIC CONIC

C3 96.560 VHL 9.826 DLA 14.02 RAL 12.91 RAD 6569.9 VEL 14.762 PTH 2.67 VHP 15.723 DPA -10.80 RAP 347.52 ECC 2.5891
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 24 3048.42 -27.68 99.94 268.53 83.77 6 57 13 2448.4 -28.25 91.32
 90.00 21 44 38 4790.42 17.86 206.16 257.23 67.65 23 4 28 4190.4 14.67 198.93
 100.00 7 35 10 2762.14 -29.39 79.09 268.73 84.27 8 21 12 2162.1 -29.87 70.32
 100.00 22 58 33 4551.93 19.44 187.93 256.53 66.84 24 14 25 3951.9 16.14 180.69
 110.00 9 0 4 2496.51 -33.93 59.39 269.21 85.59 9 41 40 1896.5 -34.17 50.15
 110.00 23 50 9 4390.32 23.60 173.65 254.51 64.52 25 3 19 3790.3 19.97 166.39

DIFFERENTIAL CORRECTIONS

TDE -1.1041 TRA -2.6259 TC3 -.2508 BAU .3300
 RDE -.6846 RRA .3527 RC3 -.0494 FAU .01319
 FDE .7818 FRA 1.3914 FC3 -.1183 BSP 5575
 BOE 1.2991 BRA 2.6495 BC3 .2556 FSP -222

MID-COURSE EXECUTION ACCURACY

SGT 1774.2 SGR 462.3 SG3 84.7
 RRT -.0363 RRF .0394 RTF -.8616
 SGB 1833.4 R23 -.0059 R13 .8616
 SG1 1774.3 SG2 461.9 TMA 179.42

ORBIT DETERMINATION ACCURACY

ST 799.2 SR 404.2 SS 706.9
 CRT .7023 CRS .7891 CST .9909
 LSA 1108.6 MSA 269.2 SSA 16.7
 EL1 854.2 EL2 269.2 ALF 21.83

LAUNCH DATE NOV 25 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 62.80 VL 24.446 GAL 14.90 AZL 86.66 MCA 92.67 SMA 110.59 ECC .41431 INC 3.3364 V1 30.174
 RP 107.54 LAP 3.33 LOP 155.47 VP 35.611 GAP -24.43 AZP 90.16 TAL 156.37 TAP 249.05 RCA 64.77 APO 156.41 V2 35.238
 RC 55.726 GL 8.35 GP -1.72 ZAL 45.44 ZAP 10.90 ETS 171.03 ZAE 138.45 ETE 195.71 ZAC 81.57 ETC 165.34 CLP 10.76

PLANETOCENTRIC CONIC

C3 89.484 VHL 9.460 DLA 14.76 RAL 13.28 RAD 6569.8 VEL 14.520 PTH 2.63 VHP 15.097 DPA -10.13 RAP 349.37 ECC 2.4727
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 15 3057.80 -27.61 100.62 267.96 83.44 6 52 13 2457.8 -28.23 92.01
 90.00 21 52 46 4747.71 16.73 203.53 256.46 66.82 23 11 53 4147.7 13.45 196.39
 100.00 7 30 33 2769.83 -29.33 79.65 268.17 83.97 8 16 43 2169.8 -29.86 70.89
 100.00 23 6 9 4510.91 18.32 185.40 255.73 65.96 24 21 20 3910.9 14.92 178.25
 110.00 8 56 33 2500.73 -33.91 59.72 268.67 85.40 9 38 14 1900.7 -34.17 50.48
 110.00 0 0 34 4352.77 22.48 171.31 253.64 63.54 1 13 7 3752.8 18.74 164.17

DIFFERENTIAL CORRECTIONS

TDE -1.1116 TRA -2.6283 TC3 -.2559 BAU .3128
 RDE -.6472 RRA .3315 RC3 -.0538 FAU .01361
 FDE .8170 FRA 1.4394 FC3 -.1317 BSP 5836
 BOE 1.2863 BRA 2.6491 BC3 .2615 FSP -243

MID-COURSE EXECUTION ACCURACY

SGT 1843.3 SGR 455.1 SG3 91.4
 RRT -.0341 RRF .0385 RTF -.8699
 SGB 1898.6 R23 -.0069 R13 .8699
 SG1 1843.4 SG2 454.8 TMA 179.49

ORBIT DETERMINATION ACCURACY

ST 835.1 SR 396.9 SS 735.6
 CRT .7035 CRS .7911 CST .9907
 LSA 1151.1 MSA 266.3 SSA 16.8
 EL1 885.6 EL2 266.0 ALF 20.41

LAUNCH DATE NOV 25 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 248.211

RL 147.66 LAL .00 LOL 62.80 VL 24.708 GAL 14.36 AZL 86.62 HCA 95.92 SMA 111.79 ECC .39764 INC 3.3819 V1 30.174
 RP 107.56 LAP 3.36 LOP 158.72 VP 35.786 GAP -23.34 AZP 90.35 TAL 155.76 TAP 251.68 RCA 67.34 APO 156.25 V2 35.232
 RC 54.021 GL 8.92 GP -1.82 ZAL 44.95 ZAP 9.62 ETS 169.29 ZAE 139.87 ETE 196.87 ZAC 83.46 ETC 165.56 CLP 9.45

PLANETOCENTRIC CONIC

C3 82.982 VHL 9.109 CLA 15.50 RAL 13.61 RAD 6569.6 VEL 14.294 PTH 2.60 VHP 14.489 DPA -9.47 RAP 351.20 ECC 2.3657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 42 3067.57 -27.53 101.32 267.31 83.10 6 46 50 2467.6 -28.20 92.72
 90.00 22 0 54 4704.11 15.54 200.88 255.67 66.03 23 19 18 4104.1 12.18 193.83
 100.00 7 25 33 2777.82 -29.28 80.24 267.54 83.67 8 11 51 2177.8 -29.84 71.48
 100.00 23 13 44 4469.10 17.14 182.85 254.91 65.13 24 28 13 3869.1 13.65 175.80
 110.00 8 52 44 2505.07 -33.89 60.05 268.07 85.20 9 34 29 1905.1 -34.18 50.82
 110.00 0 6 59 4314.62 21.30 168.97 252.75 62.61 1 18 54 3714.6 17.47 161.95

DIFFERENTIAL CORRECTIONS

TDE -1.1197 TRA -2.6282 TC3 -.2601 BAU .2957
 RDE -.6104 RRA .3109 RC3 -.0584 FAU .01407
 FDE .8551 FRA 1.4301 FC3 -.1468 BSP 6092
 BDE 1.2753 BRA 2.6465 BC3 .2665 FSP -264

MID-COURSE EXECUTION ACCURACY

SGT 1914.0 SGR 447.1 SG3 98.8
 RRT -.0320 RRF .0378 RTF -.8778
 SGB 1965.5 R23 -.0081 R13 .8778
 SG1 1914.0 SG2 446.8 THA 179.55

ORBIT DETERMINATION ACCURACY

ST 872.4 SR 388.7 SS 766.1
 CRT .7050 CRS .7932 CST .9906
 LSA 1195.7 MSA 262.7 SSA 16.8
 EL1 918.5 EL2 261.8 ALF 19.05

LAUNCH DATE NOV 25 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 254.961

RL 147.66 LAL .00 LOL 62.80 VL 24.954 GAL 13.77 AZL 86.57 HCA 99.16 SMA 112.96 ECC .38168 INC 3.4279 V1 30.174
 RP 107.58 LAP 3.38 LOP 161.97 VP 35.950 GAP -22.28 AZP 90.55 TAL 155.19 TAP 254.35 RCA 69.84 APO 156.07 V2 35.226
 RC 52.393 GL 9.51 GP -1.94 ZAL 44.51 ZAP 8.35 ETS 166.90 ZAE 141.41 ETE 198.17 ZAC 85.35 ETC 165.78 CLP 8.12

PLANETOCENTRIC CONIC

C3 77.010 VHL 8.776 CLA 16.25 RAL 13.88 RAD 6569.5 VEL 14.084 PTH 2.57 VHP 13.899 DPA -8.81 RAP 353.03 ECC 2.2674
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 43 3077.90 -27.44 102.06 266.59 82.73 6 41 1 2477.9 -28.16 93.47
 90.00 22 9 5 4659.59 14.30 198.21 254.86 65.29 23 26 45 4059.6 10.85 191.23
 100.00 7 20 10 2786.23 -29.21 80.86 266.84 83.35 8 6 36 2186.2 -29.82 72.10
 100.00 23 21 20 4426.49 15.91 180.29 254.08 64.35 24 35 6 3826.5 12.33 173.33
 110.00 8 48 34 2509.62 -33.86 60.41 267.40 84.99 9 30 24 1909.6 -34.18 51.18
 110.00 0 13 21 4275.86 20.07 166.64 251.85 61.73 1 24 37 3675.9 16.14 159.73

DIFFERENTIAL CORRECTIONS

TDE -1.1280 TRA -2.6254 TC3 -.2629 BAU .2784
 RDE -.5742 RRA .2911 RC3 -.0632 FAU .01458
 FDE .8964 FRA 1.5436 FC3 -.1640 BSP 6359
 BDE 1.2657 BRA 2.6415 BC3 .2704 FSP -288

MID-COURSE EXECUTION ACCURACY

SGT 1985.8 SGR 438.2 SG3 106.8
 RRT -.0301 RRF .0375 RTF -.8853
 SGB 2033.5 R23 -.0095 R13 .8853
 SG1 1985.8 SG2 438.0 THA 179.60

ORBIT DETERMINATION ACCURACY

ST 910.7 SR 379.6 SS 798.2
 CRT .7068 CRS .7954 CST .9905
 LSA 1242.4 MSA 258.4 SSA 16.8
 EL1 952.7 EL2 256.7 ALF 17.75

LAUNCH DATE NOV 25 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 261.733

RL 147.66 LAL .00 LOL 62.80 VL 25.185 GAL 13.20 AZL 86.53 HCA 102.40 SMA 114.08 ECC .36644 INC 3.4746 V1 30.174
 RP 107.60 LAP 3.39 LOP 165.22 VP 36.103 GAP -21.26 AZP 90.75 TAL 154.64 TAP 257.05 RCA 72.28 APO 155.88 V2 35.219
 RC 50.852 GL 10.12 GP -2.06 ZAL 44.13 ZAP 7.10 ETS 163.50 ZAE 143.06 ETE 199.64 ZAC 87.23 ETC 165.98 CLP 6.79

PLANETOCENTRIC CONIC

C3 71.530 VHL 8.458 CLA 17.01 RAL 14.11 RAD 6569.4 VEL 13.888 PTH 2.54 VHP 13.326 DPA -8.16 RAP 354.85 ECC 2.1772
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 15 3088.96 -27.35 102.86 265.82 82.35 6 34 44 2489.0 -28.12 94.28
 90.00 22 17 21 4614.09 12.98 195.51 254.05 64.61 23 34 16 4014.1 9.46 188.61
 100.00 7 14 20 2795.24 -29.14 81.52 266.08 83.01 8 0 56 2195.2 -29.80 72.77
 100.00 23 28 57 4383.05 14.61 177.72 253.24 63.63 24 42 1 3783.0 10.95 170.84
 110.00 8 44 3 2514.53 -33.83 60.79 266.67 84.77 9 25 58 1914.5 -34.18 51.56
 110.00 0 19 40 4236.51 18.79 164.31 250.94 60.90 1 30 16 3636.5 14.76 157.51

DIFFERENTIAL CORRECTIONS

TDE -1.1372 TRA -2.6203 TC3 -.2648 BAU .2615
 RDE -.5388 RRA .2722 RC3 -.0682 FAU .01515
 FDE .9414 FRA 1.6004 FC3 -.1833 BSP 6617
 BDE 1.2584 BRA 2.6344 BC3 .2734 FSP -314

MID-COURSE EXECUTION ACCURACY

SGT 2059.2 SGR 428.6 SG3 115.5
 RRT -.0284 RRF .0376 RTF -.8923
 SGB 2103.3 R23 -.0111 R13 .8923
 SG1 2059.2 SG2 428.4 THA 179.65

ORBIT DETERMINATION ACCURACY

ST 950.7 SR 369.6 SS 832.3
 CRT .7088 CRS .7976 CST .9904
 LSA 1291.7 MSA 253.6 SSA 16.8
 EL1 988.7 EL2 250.7 ALF 16.49

LAUNCH DATE NOV 25 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 268.522

RL 147.66 LAL .00 LOL 62.80 VL 25.401 GAL 12.66 AZL 86.48 HCA 105.64 SMA 115.16 ECC .35189 INC 3.5226 V1 30.174
 RP 107.62 LAP 3.39 LOP 168.46 VP 36.247 GAP -20.27 AZP 90.95 TAL 154.13 TAP 259.78 RCA 74.64 APO 155.69 V2 35.211
 RC 49.405 GL 10.76 GP -2.21 ZAL 43.81 ZAP 5.88 ETS 158.46 ZAE 144.84 ETE 201.31 ZAC 89.11 ETC 166.17 CLP 5.45

PLANETOCENTRIC CONIC

C3 66.506 VHL 8.155 CLA 17.78 RAL 14.29 RAD 6569.3 VEL 13.706 PTH 2.50 VHP 12.771 DPA -7.52 RAP 356.66 ECC 2.0945
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 36 16 3100.98 -27.23 103.72 264.98 81.93 6 27 57 2501.0 -28.07 95.16
 90.00 22 25 45 4567.53 11.61 192.79 253.23 63.99 23 41 52 3967.5 8.02 185.95
 100.00 7 8 3 2805.01 -29.05 82.23 265.26 82.65 7 54 48 2205.0 -29.77 73.50
 100.00 23 36 39 4338.73 13.25 175.13 252.39 62.96 24 48 58 3738.7 9.52 168.32
 110.00 8 39 10 2519.93 -33.79 61.20 265.88 84.53 9 21 10 1919.9 -34.18 51.98
 110.00 0 25 57 4196.57 17.45 161.99 250.03 60.13 1 35 54 3596.6 13.34 155.28

DIFFERENTIAL CORRECTIONS

TDE -1.1467 TRA -2.6122 TC3 -.2648 BAU .2443
 RDE -.5039 RRA .2542 RC3 -.0733 FAU .01577
 FDE .9906 FRA 1.6606 FC3 -.2053 BSP 6882
 BDE 1.2525 BRA 2.6245 BC3 .2748 FSP -343

MID-COURSE EXECUTION ACCURACY

SGT 2133.1 SGR 418.1 SG3 125.1
 RRT -.0276 RRF .0387 RTF -.8990
 SGB 2173.7 R23 -.0130 R13 .8990
 SG1 2133.1 SG2 418.0 THA 179.68

ORBIT DETERMINATION ACCURACY

ST 991.7 SR 358.5 SS 868.5
 CRT .7109 CRS .7998 CST .9904
 LSA 1343.3 MSA 248.2 SSA 16.8
 EL1 1026.0 EL2 243.7 ALF 15.30

LAUNCH DATE NOV 25 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 275.325

RL 147.66 LAL .00 LOL 62.80 VL 25.604 GAL 12.14 AZL 86.43 MCA 108.88 SMA 116.20 ECC .33803 INC 3.5721 V1 30.174
 RP 107.65 LAP 3.38 LOP 171.71 VP 36.381 GAP -19.32 AZP 91.16 TAL 153.66 TAP 262.54 RCA 76.92 APO 155.48 V2 35.202
 RC 48.064 GL 11.43 GP -2.37 ZAL 43.54 ZAP 4.73 ETS 150.56 ZAE 146.73 ETE 203.23 ZAC 90.97 ETC 166.36 CLP 4.10

PLANETOCENTRIC CONIC

C3 61.904 VML 7.868 DLA 18.56 RAL 14.41 RAD 6569.2 VEL 13.537 PTH 2.47 VMP 12.232 DPA -6.90 RAP 358.46 ECC 2.0188
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 42 3114.18 -27.10 104.67 264.08 81.47 6 20 36 2514.2 -28.00 96.12
 90.00 22 34 18 4519.82 10.17 190.02 252.41 63.43 23 49 38 3919.8 6.52 183.24
 100.00 7 1 14 2815.76 -28.96 83.01 264.38 82.24 7 48 10 2215.8 -29.73 74.30
 100.00 23 44 27 4293.47 11.84 172.51 251.54 62.35 24 56 1 3693.5 8.04 165.78
 110.00 8 33 52 2525.97 -33.75 61.67 265.04 84.25 9 15 58 1926.0 -34.18 52.45
 110.00 0 32 15 4156.03 16.06 159.67 249.12 59.41 1 41 31 3556.0 11.88 153.05

DIFFERENTIAL CORRECTIONS

TOE-1.1570 TRA-2.6016 TC3 -.2632 BAU .2274
 ROE -.4697 RRA .2373 RC3 -.0787 FAU .01646
 FOE 1.0445 FRA 1.7248 FC3 -.2303 BSP 7142
 BOE 1.2487 BRA 2.6124 BC3 .2747 FSP -374

MID-COURSE EXECUTION ACCURACY

SGT 2208.1 SGR 406.9 SG3 135.7
 RRT -.0277 RRF .0411 RTF -.9053
 SGB 2245.2 R23 -.0151 R13 .9053
 SG1 2208.1 SG2 406.7 THA 179.70

ORBIT DETERMINATION ACCURACY

ST 1034.2 SR 346.4 SS 907.1
 CRT .7130 CRS .8018 CST .9903
 LSA 1397.6 MSA 242.3 SSA 16.8
 EL1 1064.8 EL2 235.9 ALF 14.14

LAUNCH DATE NOV 25 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 282.138

RL 147.66 LAL .00 LOL 62.80 VL 25.793 GAL 11.65 AZL 86.38 MCA 112.12 SMA 117.20 ECC .32485 INC 3.6234 V1 30.174
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.506 GAP -18.39 AZP 91.37 TAL 153.22 TAP 265.34 RCA 79.13 APO 155.27 V2 35.194
 RC 46.839 GL 12.13 GP -2.55 ZAL 43.33 ZAP 3.73 ETS 137.60 ZAE 148.71 ETE 205.47 ZAC 92.82 ETC 166.54 CLP 2.73

PLANETOCENTRIC CONIC

C3 57.694 VML 7.596 DLA 19.35 RAL 14.48 RAD 6569.0 VEL 13.381 PTH 2.45 VMP 11.709 DPA -6.30 RAP .25 ECC 1.9495
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 20 28 3128.85 -26.95 105.71 263.12 80.97 6 12 37 2528.9 -27.92 97.18
 90.00 22 43 6 4470.83 8.67 187.21 251.60 62.94 23 57 37 3870.8 4.97 180.48
 100.00 6 53 52 2827.71 -28.85 83.88 263.45 81.80 7 40 59 2227.7 -29.68 75.18
 100.00 23 52 24 4247.20 10.36 169.87 250.70 61.80 25 3 11 3647.2 6.51 163.20
 110.00 8 28 7 2532.81 -33.71 62.20 264.16 83.94 9 10 20 1932.8 -34.18 52.99
 110.00 0 38 34 4114.87 14.62 157.35 248.21 58.75 1 47 9 3514.9 10.37 150.82

DIFFERENTIAL CORRECTIONS

TOE-1.1682 TRA-2.5884 TC3 -.2601 BAU .2109
 ROE -.4360 RRA .2216 RC3 -.0842 FAU .01723
 FOE 1.1040 FRA 1.7932 FC3 -.2585 BSP 7405
 BOE 1.2470 BRA 2.5979 BC3 .2734 FSP -409

MID-COURSE EXECUTION ACCURACY

SGT 2283.7 SGR 394.9 SG3 147.2
 RRT -.0292 RRF .0451 RTF -.9112
 SGB 2317.6 R23 -.0178 R13 .9112
 SG1 2283.7 SG2 394.7 THA 179.70

ORBIT DETERMINATION ACCURACY

ST 1078.0 SR 333.2 SS 948.3
 CRT .7152 CRS .8036 CST .9904
 LSA 1454.8 MSA 236.0 SSA 16.8
 EL1 1105.2 EL2 227.2 ALF 13.02

LAUNCH DATE NOV 25 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 288.959

RL 147.66 LAL .00 LOL 62.80 VL 25.970 GAL 11.18 AZL 86.32 MCA 115.35 SMA 118.16 ECC .31233 INC 3.6772 V1 30.174
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.622 GAP -17.50 AZP 91.58 TAL 152.82 TAP 268.17 RCA 81.25 APO 155.06 V2 35.184
 RC 45.742 GL 12.87 GP -2.76 ZAL 43.18 ZAP 3.06 ETS 116.64 ZAE 150.78 ETE 208.10 ZAC 94.66 ETC 166.72 CLP 1.34

PLANETOCENTRIC CONIC

C3 53.846 VML 7.338 DLA 20.16 RAL 14.50 RAD 6568.9 VEL 13.237 PTH 2.42 VMP 11.203 DPA -5.73 RAP 2.02 ECC 1.8862
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 31 3145.33 -26.77 106.88 262.12 80.41 6 3 56 2545.3 -27.82 98.38
 90.00 22 52 13 4420.38 7.09 184.34 250.80 62.51 24 5 53 3820.4 3.35 177.65
 100.00 6 45 51 2841.13 -28.71 84.86 262.47 81.30 7 33 12 2241.1 -29.62 76.17
 100.00 0 4 29 4199.81 8.83 167.19 249.86 61.32 1 14 29 3599.8 4.93 160.67
 110.00 8 21 54 2540.63 -33.65 62.80 263.24 83.59 9 4 15 1940.6 -34.17 53.60
 110.00 0 44 56 4073.08 13.13 155.03 247.31 58.15 1 52 49 3473.1 8.82 148.57

DIFFERENTIAL CORRECTIONS

TOE-1.1801 TRA-2.5723 TC3 -.2549 BAU .1945
 ROE -.4029 RRA .2073 RC3 -.0899 FAU .01807
 FOE 1.1698 FRA 1.8668 FC3 -.2905 BSP 7646
 BOE 1.2470 BRA 2.5806 BC3 .2703 FSP -447

MID-COURSE EXECUTION ACCURACY

SGT 2359.4 SGR 382.2 SG3 159.9
 RRT -.0329 RRF .0518 RTF -.9168
 SGB 2390.1 R23 -.0208 R13 .9168
 SG1 2359.4 SG2 382.0 THA 179.69

ORBIT DETERMINATION ACCURACY

ST 1123.0 SR 318.8 SS 992.5
 CRT .7170 CRS .8050 CST .9904
 LSA 1514.9 MSA 229.2 SSA 16.7
 EL1 1146.9 EL2 217.6 ALF 11.94

LAUNCH DATE NOV 25 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 295.783

RL 147.66 LAL .00 LOL 62.80 VL 26.135 GAL 10.73 AZL 86.27 MCA 118.58 SMA 119.07 ECC .30045 INC 3.7339 V1 30.174
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.730 GAP -16.64 AZP 91.79 TAL 152.45 TAP 271.03 RCA 83.30 APO 154.85 V2 35.174
 RC 44.782 GL 13.63 GP -2.99 ZAL 43.09 ZAP 2.99 ETS 89.41 ZAE 152.90 ETE 211.22 ZAC 96.48 ETC 166.89 CLP -.08

PLANETOCENTRIC CONIC

C3 50.336 VML 7.095 DLA 20.98 RAL 14.47 RAD 6568.9 VEL 13.103 PTH 2.39 VMP 10.712 DPA -5.19 RAP 3.78 ECC 1.8284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 1 43 3164.03 -26.55 108.21 261.07 79.78 5 54 27 2564.0 -27.69 99.73
 90.00 23 1 44 4368.22 5.44 181.39 250.02 62.17 24 14 32 3768.2 1.68 174.74
 100.00 6 37 8 2856.34 -28.55 85.96 261.45 80.74 7 24 44 2256.3 -29.53 77.30
 100.00 0 12 56 4151.14 7.23 164.46 249.05 60.92 1 22 7 3551.1 3.29 157.88
 110.00 8 15 10 2549.65 -33.58 63.50 262.28 83.19 8 57 39 1949.6 -34.16 54.30
 110.00 0 51 23 4030.60 11.59 152.70 246.42 57.61 1 58 34 3430.6 7.24 146.31

DIFFERENTIAL CORRECTIONS

TOE-1.1920 TRA-2.5524 TC3 -.2467 BAU .1781
 ROE -.3701 RRA .1944 RC3 -.0957 FAU .01900
 FOE 1.2428 FRA 1.9455 FC3 -.3268 BSP 7935
 BOE 1.2482 BRA 2.5598 BC3 .2646 FSP -489

MID-COURSE EXECUTION ACCURACY

SGT 2433.7 SGR 368.8 SG3 174.0
 RRT -.0401 RRF .0619 RTF -.9221
 SGB 2461.5 R23 -.0241 R13 .9222
 SG1 2433.7 SG2 368.5 THA 179.64

ORBIT DETERMINATION ACCURACY

ST 1168.5 SR 303.1 SS 1039.9
 CRT .7181 CRS .8058 CST .9905
 LSA 1577.6 MSA 222.2 SSA 16.6
 EL1 1189.3 EL2 207.3 ALF 10.89

LAUNCH DATE NOV 25 1968

FLIGHT TIME 126.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 302.608

RL 147.66 LAL .00 LOL 62.80 VL 26.289 GAL 10.30 AZL 86.21 MCA 121.81 SMA 119.94 ECC .28921 INC 3.7942 V1 30.174
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.830 GAP -15.80 AZP 92.00 TAL 152.12 TAP 273.93 RCA 85.25 APO 154.63 V2 35.164
 RC 43.971 GL 14.44 GP -3.25 ZAL 43.05 ZAP 3.59 ETS 65.94 ZAE 155.02 ETE 214.98 ZAC 98.28 ETC 167.07 CLP -1.52

PLANETOCENTRIC CONIC

C3 47.140 VHL 6.866 DLA 21.82 RAL 14.37 RAD 6568.8 VEL 12.981 PTH 2.37 VHP 10.237 DPA -4.70 RAP 5.52 ECC 1.7758
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 55 3185.47 -26.28 109.72 259.96 79.06 5 44 0 2585.5 -27.53 101.28
 90.00 23 11 49 4313.99 3.71 178.35 249.28 61.91 24 23 43 3714.0 -1.08 171.71
 100.00 6 27 36 2873.72 -28.35 87.22 260.39 80.11 7 15 30 2273.7 -29.43 78.58
 100.00 0 21 45 4100.97 5.56 161.67 248.26 60.58 1 30 6 3501.0 1.60 155.13
 110.00 8 7 51 2560.09 -33.49 64.30 261.29 82.72 8 50 31 1960.1 -34.14 55.12
 110.00 0 57 59 3987.37 10.00 150.35 245.55 57.14 2 4 26 3387.4 5.61 144.02

DIFFERENTIAL CORRECTIONS

TDE-1.2067 TRA-2.5313 TC3 -.2368 BAU .1624
 RDE -.3375 RRA .1832 RC3 -.1016 FAU .02003
 FDE 1.3242 FRA 2.0304 FC3 -.3678 BSP 8173
 BDE 1.2531 BRA 2.5379 BC3 .2577 FSP -536

MID-COURSE EXECUTION ACCURACY

SGT 2509.4 SGR 354.8 SG3 189.4
 RRT -.0512 RRF .0767 RTF -.9272
 SGB 2534.4 R23 -.0283 R13 .9272
 SGI 2509.5 SG2 354.4 THA 179.58

ORBIT DETERMINATION ACCURACY

ST 1216.6 SR 286.0 SS 1090.9
 CRT .7184 CRS .8056 CST .9906
 LSA 1644.9 MSA 214.9 SSA 16.4
 EL1 1234.3 EL2 196.1 ALF 9.84

LAUNCH DATE NOV 25 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 309.431

RL 147.66 LAL .00 LOL 62.80 VL 26.433 GAL 9.89 AZL 86.14 MCA 125.04 SMA 120.77 ECC .27857 INC 3.8588 V1 30.174
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.922 GAP -14.98 AZP 92.22 TAL 151.83 TAP 276.87 RCA 87.12 APO 154.41 V2 35.153
 RC 43.319 GL 15.28 GP -3.56 ZAL 43.09 ZAP 4.65 ETS 50.99 ZAE 157.11 ETE 219.52 ZAC 100.05 ETC 167.25 CLP -2.99

PLANETOCENTRIC CONIC

C3 44.235 VHL 6.651 DLA 22.68 RAL 14.23 RAD 6568.7 VEL 12.869 PTH 2.34 VHP 9.777 DPA -4.25 RAP 7.25 ECC 1.7280
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 55 3210.35 -25.95 111.47 258.80 78.25 5 32 26 2610.4 -27.31 103.06
 90.00 23 22 37 4257.17 1.88 175.17 248.57 61.74 24 33 35 3657.2 -1.91 168.54
 100.00 6 17 7 2893.77 -28.11 88.66 259.28 79.39 7 5 20 2293.8 -29.29 80.05
 100.00 0 31 3 4048.98 3.81 158.80 247.50 60.33 1 38 32 3449.0 -1.17 152.27
 110.00 7 59 53 2572.23 -33.38 65.23 260.28 82.18 8 42 45 1972.2 -34.10 56.06
 110.00 1 4 46 3943.29 8.37 147.99 244.70 56.74 2 10 29 3343.3 3.93 141.71

DIFFERENTIAL CORRECTIONS

TDE-1.2189 TRA-2.5039 TC3 -.2215 BAU .1457
 RDE -.3050 RRA .1738 RC3 -.1076 FAU .02122
 FDE 1.4142 FRA 2.1208 FC3 -.4154 BSP 8492
 BDE 1.2565 BRA 2.5099 BC3 .2463 FSP -589

MID-COURSE EXECUTION ACCURACY

SGT 2579.6 SGR 340.4 SG3 206.5
 RRT -.0699 RRF .0988 RTF -.9320
 SGB 2602.0 R23 -.0326 R13 .9321
 SGI 2579.7 SG2 339.6 THA 179.46

ORBIT DETERMINATION ACCURACY

ST 1262.7 SR 267.3 SS 1145.1
 CRT .7164 CRS .8036 CST .9907
 LSA 1712.8 MSA 207.7 SSA 16.1
 EL1 1277.5 EL2 184.3 ALF 8.81

LAUNCH DATE NOV 25 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 316.251

RL 147.66 LAL .00 LOL 62.80 VL 26.567 GAL 9.50 AZL 86.07 MCA 128.27 SMA 121.55 ECC .26854 INC 3.9287 V1 30.174
 RP 107.84 LAP 3.08 LOP 191.13 VP 37.007 GAP -14.20 AZP 92.44 TAL 151.57 TAP 279.84 RCA 88.91 APO 154.19 V2 35.141
 RC 42.834 GL 16.16 GP -3.91 ZAL 43.18 ZAP 5.96 ETS 42.10 ZAE 159.07 ETE 225.04 ZAC 101.80 ETC 167.45 CLP -4.50

PLANETOCENTRIC CONIC

C3 41.603 VHL 6.450 DLA 23.56 RAL 14.02 RAD 6568.6 VEL 12.766 PTH 2.32 VHP 9.332 DPA -3.86 RAP 8.96 ECC 1.6847
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 27 3239.66 -25.53 113.51 257.59 77.31 5 19 27 2639.7 -27.02 105.16
 90.00 23 34 27 4196.94 -.06 171.81 247.93 61.68 24 44 24 3596.9 -3.85 165.17
 100.00 6 5 29 2917.12 -27.81 90.33 258.14 78.56 6 54 6 2317.1 -29.10 81.76
 100.00 0 41 2 3994.72 1.98 155.82 246.80 60.17 1 47 37 3394.7 -2.01 149.30
 110.00 7 51 12 2586.40 -33.25 66.31 259.24 81.55 8 34 18 1986.4 -34.06 57.17
 110.00 1 11 49 3898.20 6.68 145.59 243.89 56.40 2 16 47 3298.2 2.21 139.35

DIFFERENTIAL CORRECTIONS

TDE-1.2362 TRA-2.4772 TC3 -.2073 BAU .1315
 RDE -.2723 RRA .1666 RC3 -.1139 FAU .02247
 FDE 1.5170 FRA 2.2200 FC3 -.4676 BSP 8717
 BDE 1.2658 BRA 2.4828 BC3 .2365 FSP -646

MID-COURSE EXECUTION ACCURACY

SGT 2653.4 SGR 325.8 SG3 225.4
 RRT -.0955 RRF .1293 RTF -.9364
 SGB 2673.3 R23 -.0367 R13 .9365
 SGI 2653.5 SG2 324.3 THA 179.32

ORBIT DETERMINATION ACCURACY

ST 1313.2 SR 246.7 SS 1204.9
 CRT .7123 CRS .7992 CST .9909
 LSA 1787.9 MSA 200.3 SSA 15.9
 EL1 1325.1 EL2 171.6 ALF 7.75

LAUNCH DATE NOV 25 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 323.063

RL 147.66 LAL .00 LOL 62.80 VL 26.691 GAL 9.14 AZL 85.99 MCA 131.49 SMA 122.29 ECC .25909 INC 4.0050 V1 30.174
 RP 107.87 LAP 3.00 LOP 194.36 VP 37.086 GAP -13.43 AZP 92.66 TAL 151.34 TAP 282.84 RCA 90.61 APO 153.98 V2 35.129
 RC 42.524 GL 17.09 GP -4.32 ZAL 43.34 ZAP 7.43 ETS 36.69 ZAE 160.83 ETE 231.69 ZAC 103.52 ETC 167.67 CLP -6.05

PLANETOCENTRIC CONIC

C3 39.226 VHL 6.263 DLA 24.47 RAL 13.75 RAD 6568.5 VEL 12.673 PTH 2.30 VHP 8.903 DPA -3.54 RAP 10.66 ECC 1.6456
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 2 3274.88 -24.98 115.94 256.31 76.21 5 4 37 2674.9 -26.63 107.67
 90.00 23 47 44 4132.01 -2.16 168.19 247.37 61.76 24 56 36 3532.0 -5.91 161.53
 100.00 5 52 27 2944.66 -27.42 92.28 256.94 77.60 6 41 32 2344.7 -28.85 83.77
 100.00 0 51 56 3937.47 -.04 152.68 246.15 60.11 1 57 33 3337.5 -3.94 146.15
 110.00 7 41 39 2603.02 -33.07 67.58 258.19 80.82 8 25 2 2003.0 -33.99 58.46
 110.00 1 19 14 3851.87 4.92 143.15 243.11 56.13 2 23 25 3251.9 .44 136.93

DIFFERENTIAL CORRECTIONS

TDE-1.2510 TRA-2.4436 TC3 -.1866 BAU .1165
 RDE -.2390 RRA .1618 RC3 -.1204 FAU .02393
 FDE 1.6312 FRA 2.3254 FC3 -.5281 BSP 9026
 BDE 1.2736 BRA 2.4490 BC3 .2221 FSP -712

MID-COURSE EXECUTION ACCURACY

SGT 2719.7 SGR 311.5 SG3 246.3
 RRT -.1345 RRF .1730 RTF -.9407
 SGB 2737.4 R23 -.0453 R13 .9408
 SGI 2720.0 SG2 308.6 THA 179.11

ORBIT DETERMINATION ACCURACY

ST 1361.2 SR 224.1 SS 1268.3
 CRT .7027 CRS .7903 CST .9911
 LSA 1863.9 MSA 193.2 SSA 15.5
 EL1 1370.4 EL2 158.3 ALF 6.69

LAUNCH DATE NOV 25 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 62.80 VL 26.807 GAL 8.79 AZL 85.91 HCA 134.72 SMA 123.00 ECC .25020 INC 4.0893 V1 30.174
 RP 107.91 LAP 2.90 LOP 197.59 VP 37.157 GAP -12.69 AZP 92.88 TAL 151.16 TAP 285.87 RCA 92.22 APO 153.77 V2 35.117
 RC 42.392 GL 18.07 GP -4.80 ZAL 43.57 ZAP 9.02 ETS 33.32 ZAE 162.27 ETE 239.57 ZAC 105.21 ETC 167.91 CLP -7.65

PLANETOCENTRIC CONIC

C3 37.089 VHL 6.090 CLA 25.41 RAL 13.42 RAD 6568.4 VEL 12.588 PTH 2.28 VHP 8.488 DPA -3.30 RAP 12.34 ECC 1.6104
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 51 55 3318.50 -24.24 118.92 254.93 74.89 4 47 13 2718.5 -26.08 110.74
 90.00 0 7 9 4060.08 -4.46 164.16 246.92 62.01 1 14 49 3460.1 -8.18 157.45
 100.00 5 37 37 2977.70 -26.91 94.61 255.69 76.48 6 27 15 2377.7 -28.51 86.17
 100.00 1 4 8 3876.12 -2.04 149.31 245.58 60.17 2 8 44 3276.1 -6.00 142.76
 110.00 7 31 7 2622.61 -32.85 69.07 257.11 79.97 8 14 49 2022.6 -33.89 59.98
 110.00 1 27 8 3803.97 3.10 140.64 242.38 55.94 2 30 32 3204.0 -1.39 134.43

DIFFERENTIAL CORRECTIONS

TDE -1.2683 TRA -2.4079 TC3 -.1639 BAU .1029
 RDE -.2046 RRA .1598 RC3 -.1273 FAU .02552
 FDE 1.7613 FRA 2.4399 FC3 -.5957 BSP 9306
 BDE 1.2847 BRA 2.4132 BC3 .2075 FSP -785

MID-COURSE EXECUTION ACCURACY

SGT 2784.5 SGR 298.0 SG3 269.5
 RRT -.1890 RRF .2329 RTF -.9447
 SGB 2800.4 R23 -.0534 R13 .9448
 SG1 2785.0 SG2 292.6 THA 178.83

ORBIT DETERMINATION ACCURACY

ST 1410.6 SR 198.9 SS 1337.7
 CRT .6848 CRS .7739 CST .9913
 LSA 1945.2 MSA 186.3 SSA 15.0
 EL1 1417.2 EL2 144.3 ALF 5.57

LAUNCH DATE NOV 25 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 62.80 VL 26.914 GAL 8.46 AZL 85.82 HCA 137.94 SMA 123.66 ECC .24185 INC 4.1835 V1 30.174
 RP 107.95 LAP 2.80 LOP 200.81 VP 37.223 GAP -11.98 AZP 93.11 TAL 151.00 TAP 288.94 RCA 93.75 APO 153.56 V2 35.105
 RC 42.442 GL 19.11 GP -5.37 ZAL 43.86 ZAP 10.73 ETS 31.22 ZAE 163.27 ETE 248.52 ZAC 106.87 ETC 168.19 CLP -9.30

PLANETOCENTRIC CONIC

C3 35.180 VHL 5.931 CLA 26.39 RAL 13.02 RAD 6568.4 VEL 12.512 PTH 2.27 VHP 8.088 DPA -3.17 RAP 14.00 ECC 1.5790
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 29 33 3375.42 -23.17 122.76 253.39 73.25 4 25 49 2775.4 -25.25 114.70
 90.00 0 26 19 3976.47 -7.11 159.45 246.66 62.52 1 32 36 3376.5 -10.74 152.65
 100.00 5 20 19 3018.35 -26.24 97.44 254.35 75.13 6 10 37 2418.3 -28.02 89.09
 100.00 1 18 15 3808.77 -4.32 145.60 245.13 60.39 2 21 44 3208.8 -8.23 139.00
 110.00 7 19 21 2645.89 -32.56 70.82 256.01 78.97 8 3 27 2045.9 -33.74 61.78
 110.00 1 35 42 3753.99 1.19 138.03 241.71 55.84 2 38 16 3154.0 -3.30 131.82

DIFFERENTIAL CORRECTIONS

TDE -1.2780 TRA -2.3591 TC3 -.1280 BAU .0874
 RDE -.1685 RRA .1613 RC3 -.1346 FAU .02753
 FDE 1.9040 FRA 2.5578 FC3 -.6775 BSP 9803
 BDE 1.2890 BRA 2.3646 BC3 .1858 FSP -878

MID-COURSE EXECUTION ACCURACY

SGT 2831.7 SGR 286.8 SG3 294.7
 RRT -.2675 RRF .3155 RTF -.9488
 SGB 2846.2 R23 -.0615 R13 .9490
 SG1 2832.8 SG2 276.2 THA 178.43

ORBIT DETERMINATION ACCURACY

ST 1451.4 SR 171.0 SS 1409.4
 CRT .6493 CRS .7425 CST .9913
 LSA 2022.2 MSA 180.4 SSA 14.2
 EL1 1455.6 EL2 129.6 ALF 4.41

LAUNCH DATE NOV 25 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 62.80 VL 27.013 GAL 8.15 AZL 85.71 HCA 141.15 SMA 124.28 ECC .23405 INC 4.2901 V1 30.174
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.283 GAP -11.28 AZP 93.34 TAL 150.87 TAP 292.02 RCA 95.19 APO 153.36 V2 35.092
 RC 42.671 GL 20.22 GP -6.05 ZAL 44.23 ZAP 12.54 ETS 30.00 ZAE 163.76 ETE 258.13 ZAC 108.49 ETC 168.53 CLP -11.00

PLANETOCENTRIC CONIC

C3 33.502 VHL 5.788 CLA 27.41 RAL 12.56 RAD 6568.3 VEL 12.445 PTH 2.25 VHP 7.704 DPA -3.17 RAP 15.65 ECC 1.5514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 51 3458.97 -21.43 128.26 251.55 71.03 3 56 30 2859.0 -23.82 120.41
 90.00 0 53 19 3868.24 -10.46 153.26 246.78 63.54 1 57 47 3268.2 -13.93 146.30
 100.00 4 59 21 3070.54 -25.27 101.02 252.89 73.48 5 50 31 2470.5 -27.30 92.80
 100.00 1 35 30 3731.90 -6.89 141.34 244.88 60.84 2 37 42 3131.9 -10.72 134.66
 110.00 7 6 5 2673.92 -32.18 72.92 254.90 77.78 7 50 39 2073.9 -33.52 63.94
 110.00 1 45 15 3701.29 -.82 135.28 241.13 55.83 2 46 56 3101.3 -5.30 129.06

DIFFERENTIAL CORRECTIONS

TDE -1.3887 TRA -2.4065 TC3 -.2072 BAU .1129
 RDE -.1303 RRA .1662 RC3 -.1436 FAU .02695
 FDE 2.1302 FRA 2.7490 FC3 -.6965 BSP 7913
 BDE 1.3948 BRA 2.4122 BC3 .2521 FSP -856

MID-COURSE EXECUTION ACCURACY

SGT 3024.6 SGR 280.4 SG3 328.9
 RRT -.3303 RRF .4029 RTF -.9493
 SGB 3037.6 R23 -.0921 R13 .9496
 SG1 3026.0 SG2 264.5 THA 178.23

ORBIT DETERMINATION ACCURACY

ST 1593.1 SR 140.6 SS 1531.3
 CRT .5923 CRS .6827 CST .9929
 LSA 2207.6 MSA 170.0 SSA 14.6
 EL1 1595.3 EL2 113.1 ALF 3.01

LAUNCH DATE NOV 25 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 62.80 VL 27.105 GAL 7.86 AZL 85.59 HCA 144.37 SMA 124.86 ECC .22674 INC 4.4126 V1 30.174
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.338 GAP -10.60 AZP 93.59 TAL 150.78 TAP 295.15 RCA 96.55 APO 153.17 V2 35.080
 RC 43.078 GL 21.41 GP -6.87 ZAL 44.69 ZAP 14.48 ETS 29.43 ZAE 163.67 ETE 267.62 ZAC 110.06 ETC 168.94 CLP -12.78

PLANETOCENTRIC CONIC

C3 32.024 VHL 5.659 CLA 28.50 RAL 12.00 RAD 6568.3 VEL 12.385 PTH 2.24 VHP 7.334 DPA -3.33 RAP 17.30 ECC 1.5270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.64 1 25 49 3743.05 -16.78 147.13 248.29 66.62 2 28 12 3143.1 -19.80 139.75
 93.36 2 21 53 3561.42 -16.76 133.83 248.28 66.61 3 21 15 2961.4 -19.79 126.45
 100.00 4 31 43 3143.30 -23.78 105.90 251.15 71.33 5 24 7 2543.3 -26.10 97.88
 100.00 1 58 40 3636.40 -10.02 135.98 244.92 61.69 2 59 17 3036.4 -13.72 129.15
 110.00 6 50 45 2708.09 -31.65 75.44 253.73 76.37 7 35 53 2108.1 -33.20 66.56
 110.00 1 56 8 3644.37 -3.00 132.31 240.65 55.93 2 56 53 3044.4 -7.45 126.05

DIFFERENTIAL CORRECTIONS

TDE -1.3701 TRA -2.3180 TC3 -.1299 BAU .0857
 RDE -.0873 RRA .1769 RC3 -.1524 FAU .03018
 FDE 2.3012 FRA 2.8670 FC3 -.8158 BSP 9171
 BDE 1.3729 BRA 2.3247 BC3 .2003 FSP -1005

MID-COURSE EXECUTION ACCURACY

SGT 3012.9 SGR 281.2 SG3 358.2
 RRT -.4677 RRF .5373 RTF -.9540
 SGB 3026.0 R23 -.0997 R13 .9543
 SG1 3015.8 SG2 248.3 THA 177.48

ORBIT DETERMINATION ACCURACY

ST 1602.0 SR 107.6 SS 1604.5
 CRT .4271 CRS .5328 CST .9925
 LSA 2263.7 MSA 167.1 SSA 13.2
 EL1 1602.6 EL2 97.2 ALF 1.65

LAUNCH DATE NOV 25 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 356.967

RL 147.66 LAL .00 LOL 62.80 VL 27.190 GAL 7.58 AZL 85.44 HCA 147.58 SMA 125.40 ECC .21992 INC 4.5558 V1 30.174
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.387 GAP -9.95 AZP 93.85 TAL 150.71 TAP 298.29 RCA 97.82 APO 152.98 V2 35.067
 RC 43.658 GL 22.70 GP -7.88 ZAL 45.24 ZAP 16.58 ETS 29.39 ZAE 163.02 ETE 276.20 ZAC 111.60 ETC 169.45 CLP -14.63

PLANETOCENTRIC CONIC

C3 30.764 VHL 5.547 DLA 29.66 RAL 11.35 RAD 6568.2 VEL 12.334 PTH 2.22 VHP 6.981 DPA -3.69 RAP 18.94 ECC 1.5063
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.78 0 36 1 3885.01 -17.70 158.02 247.28 65.81 1 40 46 3285.0 -20.82 150.63
 99.22 3 6 30 3399.29 -17.69 122.32 247.27 65.80 4 3 9 2799.3 -20.81 114.93
 100.00 3 43 53 3279.75 -20.52 114.73 248.56 67.78 4 38 33 2679.8 -23.36 107.08
 100.00 2 41 19 3479.77 -14.91 126.93 245.91 63.79 3 39 19 2879.8 -18.31 119.79
 110.00 6 32 34 2750.99 -30.92 78.57 252.48 74.65 7 18 25 2151.0 -32.72 69.81
 110.00 2 9 8 3581.30 -5.39 129.00 240.34 56.19 3 8 49 2981.3 -9.80 122.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.3835 TRA-2.2541 TC3 -.0841 BAU .0755 SGT 3038.3 SGR 295.5 SG3 392.5 ST 1639.8 SR 79.9 SS 1698.6
 RDE -.0386 RRA .1935 RC3 -.1633 FAU .03284 RRT -.6043 RRF .6744 RTF -.9575 CRT .0117 CRS .1313 CST .9926
 FDE 2.5199 FRA 3.0111 FC3 -.9242 BSP .9722 SGB 3052.6 R23 -.1159 R13 .9580 LSA 2356.6 MSA 163.7 SSA 12.0
 BDE 1.3841 BRA 2.2624 BC3 .1837 FSP -1132 SG1 3043.6 SG2 235.0 THA 176.62 EL1 1639.8 EL2 79.9 ALF .03

LAUNCH DATE NOV 25 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 363.703

RL 147.66 LAL .00 LOL 62.80 VL 27.268 GAL 7.33 AZL 85.27 HCA 150.79 SMA 125.90 ECC .21358 INC 4.7267 V1 30.174
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.431 GAP -9.31 AZP 94.13 TAL 150.67 TAP 301.46 RCA 99.01 APO 152.80 V2 35.053
 RC 44.405 GL 24.13 GP -9.13 ZAL 45.90 ZAP 18.85 ETS 29.84 ZAE 161.87 ETE 283.29 ZAC 113.09 ETC 170.11 CLP -16.56

PLANETOCENTRIC CONIC

C3 29.730 VHL 5.452 DLA 30.92 RAL 10.59 RAD 6568.2 VEL 12.292 PTH 2.21 VHP 6.647 DPA -4.31 RAP 20.61 ECC 1.4893
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.03 0 4 58 3965.53 -18.65 164.48 246.30 64.88 1 11 4 3365.5 -21.88 157.10
 102.97 3 31 28 3301.60 -18.64 115.49 246.29 64.87 4 26 29 2701.6 -21.87 108.10
 77.03 0 4 58 3965.53 -18.65 164.48 246.30 64.88 1 11 4 3365.5 -21.88 157.10
 102.97 3 31 28 3301.60 -18.64 115.49 246.29 64.87 4 26 29 2701.6 -21.87 108.10
 110.00 6 9 59 2807.20 -29.84 82.59 251.07 72.50 6 56 46 2207.2 -31.94 74.01
 110.00 2 25 37 3507.93 -8.16 125.12 240.28 56.69 3 24 5 2907.9 -12.48 118.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4129 TRA-2.1977 TC3 -.0527 BAU .0732 SGT 3074.9 SGR 329.7 SG3 431.1 ST 1690.2 SR 82.7 SS 1808.7
 RDE -.0188 RRA .2179 RC3 -.1765 FAU .03530 RRT -.7270 RRF .7965 RTF -.9603 CRT -.6728 CRS -.5812 CST .9928
 FDE 2.7845 FRA 3.1705 FC3 -1.0281 BSP .9975 SGB 3092.5 R23 -.1378 R13 .9611 LSA 2471.6 MSA 161.0 SSA 10.8
 BDE 1.4131 BRA 2.2085 BC3 .1841 FSP -1254 SG1 3084.2 SG2 225.7 THA 175.52 EL1 1691.1 EL2 61.1 ALF 178.11

LAUNCH DATE NOV 25 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 370.423

RL 147.66 LAL .00 LOL 62.80 VL 27.340 GAL 7.09 AZL 85.06 HCA 154.00 SMA 126.37 ECC .20771 INC 4.9355 V1 30.174
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.471 GAP -8.69 AZP 94.44 TAL 150.65 TAP 304.65 RCA 100.13 APO 152.62 V2 35.040
 RC 45.309 GL 25.71 GP -10.71 ZAL 46.69 ZAP 21.36 ETS 30.77 ZAE 160.26 ETE 288.62 ZAC 114.55 ETC 170.97 CLP -18.59

PLANETOCENTRIC CONIC

C3 28.941 VHL 5.380 DLA 32.31 RAL 9.68 RAD 6568.2 VEL 12.260 PTH 2.21 VHP 6.332 DPA -5.28 RAP 22.33 ECC 1.4763
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.74 23 34 46 4029.87 -19.64 169.86 245.35 63.81 24 41 56 3429.9 -23.00 162.48
 106.26 3 50 30 3223.80 -19.62 110.09 245.35 63.80 4 44 14 2623.8 -22.98 102.72
 73.74 23 34 46 4029.87 -19.64 169.86 245.35 63.81 24 41 56 3429.9 -23.00 162.48
 106.26 3 50 30 3223.80 -19.62 110.09 245.35 63.80 4 44 14 2623.8 -22.98 102.72
 110.00 5 39 24 2887.44 -28.07 88.16 249.31 69.64 6 27 32 2287.4 -30.57 79.87
 110.00 2 48 58 3414.23 -11.62 120.07 240.69 57.62 3 45 52 2814.2 -15.81 113.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4518 TRA-2.1397 TC3 -.0268 BAU .0753 SGT 3108.5 SGR 391.8 SG3 473.4 ST 1745.1 SR 135.2 SS 1932.3
 RDE .0896 RRA .2526 RC3 -.1928 FAU .03775 RRT -.8212 RRF .8874 RTF -.9628 CRT -.9532 CRS -.9122 CST .9931
 FDE 3.0973 FRA 3.3350 FC3 -1.1293 BSP 10134 SGB 3133.1 R23 -.1624 R13 .9640 LSA 2602.2 MSA 159.4 SSA 9.5
 BDE 1.4546 BRA 2.1546 BC3 .1946 FSP -1383 SG1 3125.2 SG2 222.4 THA 174.06 EL1 1749.8 EL2 40.8 ALF 175.78

LAUNCH DATE NOV 25 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 377.123

RL 147.66 LAL .00 LOL 62.80 VL 27.406 GAL 6.86 AZL 84.80 HCA 157.21 SMA 126.81 ECC .20227 INC 5.1982 V1 30.174
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.507 GAP -8.09 AZP 94.79 TAL 150.65 TAP 307.86 RCA 101.16 APO 152.46 V2 35.027
 RC 46.364 GL 27.53 GP -12.76 ZAL 47.65 ZAP 24.18 ETS 32.21 ZAE 158.18 ETE 292.16 ZAC 115.96 ETC 172.13 CLP -20.71

PLANETOCENTRIC CONIC

C3 28.441 VHL 5.333 DLA 33.89 RAL 8.58 RAD 6568.1 VEL 12.240 PTH 2.20 VHP 6.043 DPA -6.72 RAP 24.15 ECC 1.4681
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.56 23 10 8 4088.00 -20.66 174.89 244.45 62.52 24 18 16 3488.0 -24.17 167.53
 109.44 4 6 22 3156.97 -20.64 105.49 244.45 62.51 4 58 59 2557.0 -24.16 98.13
 70.56 23 10 8 4088.00 -20.66 174.89 244.45 62.52 24 18 16 3488.0 -24.17 167.53
 109.44 4 6 22 3156.97 -20.64 105.49 244.45 62.51 4 58 59 2557.0 -24.16 98.13
 110.00 4 43 50 3042.60 -23.97 98.36 246.22 64.87 5 34 32 2442.6 -27.15 90.63
 110.00 3 35 47 3250.37 -17.40 110.89 242.57 60.10 4 29 57 2650.4 -21.25 103.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4967 TRA-2.0731 TC3 .0010 BAU .0812 SGT 3128.0 SGR 491.1 SG3 518.0 ST 1798.2 SR 227.0 SS 2067.3
 RDE .1810 RRA .3008 RC3 -.2135 FAU .04030 RRT -.8836 RRF .9439 RTF -.9651 CRT -.9966 CRS -.9815 CST .9934
 FDE 3.4626 FRA 3.4895 FC3 -1.2267 BSP 10349 SGB 3166.3 R23 -.1849 R13 .9671 LSA 2744.7 MSA 159.4 SSA 8.1
 BDE 1.5076 BRA 2.0948 BC3 .2135 FSP -1525 SG1 3158.1 SG2 227.8 THA 172.06 EL1 1812.4 EL2 18.5 ALF 172.83

LAUNCH DATE NOV 25 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 383.804

RL 147.66 LAL .00 LOL 62.80 VL 27.466 GAL 6.66 AZL 84.46 HCA 160.41 SMA 127.21 ECC .19727 INC 5.5415 V1 30.174
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.539 GAP -7.50 AZP 95.22 TAL 150.67 TAP 311.08 RCA 102.12 APO 152.31 V2 35.013
 RC 47.558 GL 29.67 GP -15.49 ZAL 48.85 ZAP 27.43 ETS 34.26 ZAE 155.52 ETE 294.00 ZAC 117.33 ETC 173.73 CLP -22.93

PLANETOCENTRIC CONIC

C3 28.317 VHL 5.321 CLA 35.72 RAL 7.21 RAD 6568.1 VEL 12.235 PTH 2.20 VHP 5.788 DPA -8.82 RAP 26.15 ECC 1.4660
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.26 22 45 29 4144.96 -21.71 179.98 243.60 60.91 23 54 34 3545.0 -25.42 172.66
 112.74 4 20 6 3097.83 -21.70 101.45 243.59 60.90 5 11 44 2497.8 -25.40 94.13
 67.26 22 45 29 4144.96 -21.71 179.98 243.60 60.91 23 54 34 3545.0 -25.42 172.66
 112.74 4 20 6 3097.83 -21.70 101.45 243.59 60.90 5 11 44 2497.8 -25.40 94.13
 67.26 22 45 29 4144.96 -21.71 179.98 243.60 60.91 23 54 34 3545.0 -25.42 172.66
 112.74 4 20 6 3097.83 -21.70 101.45 243.59 60.90 5 11 44 2497.8 -25.40 94.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.5589 TRA -2.0029 TC3 .0204 BAU .0910 SGT 3142.1 SGR 640.8 S63 563.5 ST 1858.0 SR 360.5 SS 2217.4
 RDE .3061 RRA .3671 RC3 -.2394 FAU .04247 RRT -.9198 RRF .9742 RTF -.9671 CRT -.9994 CRS -.9962 CST .9936
 FDE 3.8949 FRA 3.6196 FC3 -1.2983 BSP 10490 SGB 3206.8 R23 -.2016 R13 .9701 LSA 2910.9 MSA 161.2 SSA 6.7
 BDE 1.5887 BRA 2.0362 BC3 .2403 FSP -1664 SG1 3197.2 SG2 247.1 THA 169.31 EL1 1892.7 EL2 11.8 ALF 169.02

LAUNCH DATE NOV 25 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 390.464

RL 147.66 LAL .00 LOL 62.80 VL 27.521 GAL 6.42 AZL 83.99 HCA 163.61 SMA 127.58 ECC .19268 INC 6.0122 V1 30.174
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.566 GAP -6.93 AZP 95.77 TAL 150.70 TAP 314.30 RCA 103.00 APO 152.16 V2 35.000
 RC 48.883 GL 32.29 GP -19.24 ZAL 50.41 ZAP 31.34 ETS 37.05 ZAE 152.01 ETE 294.32 ZAC 118.65 ETC 176.01 CLP -25.23

PLANETOCENTRIC CONIC

C3 28.744 VHL 5.361 CLA 37.93 RAL 5.42 RAD 6568.2 VEL 12.252 PTH 2.20 VHP 5.584 DPA -11.89 RAP 28.51 ECC 1.4731
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.64 22 19 16 4204.98 -22.79 185.51 242.81 58.83 23 29 21 3605.0 -26.74 178.26
 116.36 4 32 3 3045.29 -22.78 97.88 242.80 58.82 5 22 48 2445.3 -26.73 90.63
 63.64 22 19 16 4204.98 -22.79 185.51 242.81 58.83 23 29 21 3605.0 -26.74 178.26
 116.36 4 32 3 3045.29 -22.78 97.88 242.80 58.82 5 22 48 2445.3 -26.73 90.63
 63.64 22 19 16 4204.98 -22.79 185.51 242.81 58.83 23 29 21 3605.0 -26.74 178.26
 116.36 4 32 3 3045.29 -22.78 97.88 242.80 58.82 5 22 48 2445.3 -26.73 90.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.6472 TRA -1.9249 TC3 .0330 BAU .1049 SGT 3146.6 SGR 861.0 S63 604.9 ST 1926.3 SR 554.2 SS 2379.9
 RDE .4884 RRA .4576 RC3 -.2710 FAU .04382 RRT -.9398 RRF .9887 RTF -.9688 CRT -.9970 CRS -.9994 CST .9939
 FDE 4.3982 FRA 3.6843 FC3 -1.3197 BSP 10663 SGB 3262.2 R23 -.2068 R13 .9738 LSA 3107.2 MSA 164.8 SSA 5.2
 BDE 1.7181 BRA 1.9786 BC3 .2730 FSP -1792 SG1 3249.8 SG2 284.9 THA 165.46 EL1 2004.1 EL2 41.2 ALF 163.99

LAUNCH DATE NOV 25 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 397.102

RL 147.66 LAL .00 LOL 62.80 VL 27.571 GAL 6.29 AZL 83.30 HCA 166.80 SMA 127.92 ECC .18848 INC 6.7030 V1 30.174
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.591 GAP -6.37 AZP 96.53 TAL 150.74 TAP 317.54 RCA 103.81 APO 152.03 V2 34.987
 RC 50.327 GL 35.65 GP -24.61 ZAL 52.52 ZAP 36.31 ETS 40.79 ZAE 147.08 ETE 293.40 ZAC 119.86 ETC 179.44 CLP -27.58

PLANETOCENTRIC CONIC

C3 30.117 VHL 5.488 CLA 40.70 RAL 2.93 RAD 6568.2 VEL 12.308 PTH 2.22 VHP 5.470 DPA -16.45 RAP 31.54 ECC 1.4957
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.45 21 49 30 4273.12 -23.82 191.93 242.06 55.97 23 0 43 3673.1 -28.12 184.84
 120.55 4 41 54 3000.50 -23.81 94.84 242.05 55.96 5 31 55 2400.5 -28.10 87.75
 59.45 21 49 30 4273.12 -23.82 191.93 242.06 55.97 23 0 43 3673.1 -28.12 184.84
 120.55 4 41 54 3000.50 -23.81 94.84 242.05 55.96 5 31 55 2400.5 -28.10 87.75
 59.45 21 49 30 4273.12 -23.82 191.93 242.06 55.97 23 0 43 3673.1 -28.12 184.84
 120.55 4 41 54 3000.50 -23.81 94.84 242.05 55.96 5 31 55 2400.5 -28.10 87.75

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.7859 TRA -1.8371 TC3 .0363 BAU .1240 SGT 3143.0 SGR 1183.9 S63 630.5 ST 2013.1 SR 844.1 SS 2544.1
 RDE .7754 RRA .5781 RC3 -.3057 FAU .04331 RRT -.9505 RRF .9950 RTF -.9703 CRT -.9950 CRS -1.0000 CST .9943
 FDE 4.9543 FRA 3.6038 FC3 -1.2451 BSP 10953 SGB 3358.6 R23 -.1977 R13 .9784 LSA 3347.9 MSA 170.5 SSA 3.8
 BDE 1.9469 BRA 1.9259 BC3 .3079 FSP -1879 SG1 3340.7 SG2 346.2 THA 160.08 EL1 2181.5 EL2 78.0 ALF 157.32

LAUNCH DATE NOV 25 1968

FLIGHT TIME 156.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 403.716

RL 147.66 LAL .00 LOL 62.80 VL 27.616 GAL 6.13 AZL 82.18 HCA 169.99 SMA 128.23 ECC .18468 INC 7.8239 V1 30.174
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.612 GAP -5.83 AZP 97.71 TAL 150.78 TAP 320.77 RCA 104.55 APO 151.91 V2 34.974
 RC 51.881 GL 40.24 GP -32.67 ZAL 55.60 ZAP 43.08 ETS 45.78 ZAE 139.63 ETE 291.79 ZAC 120.74 ETC 184.87 CLP -29.81

PLANETOCENTRIC CONIC

C3 33.478 VHL 5.786 CLA 44.36 RAL 359.09 RAD 6568.3 VEL 12.444 PTH 2.25 VHP 5.553 DPA -23.39 RAP 36.00 ECC 1.5510
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.30 21 12 49 4357.77 -24.55 199.98 241.26 51.81 22 25 26 3757.8 -29.32 193.19
 125.70 4 47 57 2969.07 -24.54 92.66 241.25 51.80 5 37 26 2369.1 -29.31 85.87
 54.30 21 12 49 4357.77 -24.55 199.98 241.26 51.81 22 25 26 3757.8 -29.32 193.19
 125.70 4 47 57 2969.07 -24.54 92.66 241.25 51.80 5 37 26 2369.1 -29.31 85.87
 54.30 21 12 49 4357.77 -24.55 199.98 241.26 51.81 22 25 26 3757.8 -29.32 193.19
 125.70 4 47 57 2969.07 -24.54 92.66 241.25 51.80 5 37 26 2369.1 -29.31 85.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -2.0422 TRA -1.7382 TC3 .0246 BAU .1478 SGT 3144.4 SGR 1654.7 S63 614.8 ST 2147.4 SR 1294.6 SS 2676.7
 RDE 1.2714 RRA .7247 RC3 -.3294 FAU .03863 RRT -.9559 RRF .9975 RTF -.9718 CRT -.9941 CRS -1.0000 CST .9950
 FDE 5.4690 FRA 3.2263 FC3 -.9990 BSP 11507 SGB 3553.2 R23 -.1717 R13 .9845 LSA 3663.4 MSA 177.8 SSA 2.5
 BDE 2.4057 BRA 1.8832 BC3 .3303 FSP -1850 SG1 3526.7 SG2 433.2 THA 152.85 EL1 2504.6 EL2 120.3 ALF 148.99

LAUNCH DATE NOV 25 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.657 GAL 5.99 AZL 80.03 HCA 173.17 SMA 128.51 ECC .18125 INC 9.9742 V1 30.174
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.630 GAP -5.31 AZP 99.90 TAL 150.82 TAP 323.99 RCA 105.22 APO 151.80 V2 34.961
 RC 53.536 GL 46.97 GP -45.30 ZAL 60.54 ZAP 53.02 ETS 52.68 ZAE 127.67 ETE 291.02 ZAC 120.63 ETC 194.23 CLP -31.23

DISTANCE 410.300

PLANETOCENTRIC CONIC
 C3 42.473 VHL 6.517 DLA 49.35 RAL 352.24 RAD 6568.6 VEL 12.800 PTH 2.33 VHP 6.171 DPA -34.02 RAP 43.95 ECC 1.6990
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.73 20 22 5 4476.95 -23.96 210.76 239.82 45.47 21 36 42 3877.0 -29.43 204.63
 132.27 4 44 4 2970.08 -23.95 92.19 239.81 45.47 5 33 34 2370.1 -29.42 86.06
 47.73 20 22 5 4476.95 -23.96 210.76 239.82 45.47 21 36 42 3877.0 -29.43 204.63
 132.27 4 44 4 2970.08 -23.95 92.19 239.81 45.47 5 33 34 2370.1 -29.42 86.06
 47.73 20 22 5 4476.95 -23.96 210.76 239.82 45.47 21 36 42 3877.0 -29.43 204.63
 132.27 4 44 4 2970.08 -23.95 92.19 239.81 45.47 5 33 34 2370.1 -29.42 86.06

MID-COURSE EXECUTION ACCURACY
 SGT 3204.7 SGR 2288.7 SG3 507.2
 RRT -.9582 RRF .9977 RTF -.9750
 SGB 3938.0 R23 -.1266 R13 .9918
 SG1 3901.1 SG2 537.9 THA 144.85

ORBIT DETERMINATION ACCURACY
 ST 2423.8 SR 1986.1 SS 2671.1
 CRT -.9945 CRS -.9998 CST .9962
 LSA 4113.4 MSA 185.6 SSA 1.3
 EL1 3129.5 EL2 161.5 ALF 140.70

DIFFERENTIAL CORRECTIONS
 TDE -2.6530 TRA -1.6285 TC3 -.0110 BAU .1664
 RDE 2.2264 RRA .8322 RC3 -.2928 FAU .02558
 FDE 5.5976 FRA 2.3174 FC3 -.5213 BSP 12596
 BDE 3.4634 BRA 1.8288 BC3 .2930 FSP -1555

LAUNCH DATE NOV 25 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.694 GAL 5.87 AZL 74.20 HCA 176.32 SMA 128.76 ECC .17823 INC15.8013 V1 30.174
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.645 GAP -4.81 AZP 105.77 TAL 150.84 TAP 327.16 RCA 105.81 APO 151.71 V2 34.948
 RC 55.282 GL 57.21 GP -65.14 ZAL 69.32 ZAP 67.86 ETS 67.79 ZAE 107.96 ETE 299.48 ZAC 118.10 ETC 215.73 CLP -26.33

DISTANCE 416.832

PLANETOCENTRIC CONIC
 C3 79.640 VHL 8.924 DLA 55.23 RAL 337.46 RAD 6569.6 VEL 14.177 PTH 2.58 VHP 8.968 DPA -48.66 RAP 62.96 ECC 2.3107
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.37 19 0 48 4680.25 -17.88 224.99 234.53 36.81 20 18 49 4080.2 -24.21 220.16
 139.63 4 7 24 3072.70 -17.87 95.65 234.51 36.81 4 58 36 2472.7 -24.20 90.82
 40.37 19 0 48 4680.25 -17.88 224.99 234.53 36.81 20 18 49 4080.2 -24.21 220.16
 139.63 4 7 24 3072.70 -17.87 95.65 234.51 36.81 4 58 36 2472.7 -24.20 90.82
 40.37 19 0 48 4680.25 -17.88 224.99 234.53 36.81 20 18 49 4080.2 -24.21 220.16
 139.63 4 7 24 3072.70 -17.87 95.65 234.51 36.81 4 58 36 2472.7 -24.20 90.82

MID-COURSE EXECUTION ACCURACY
 SGT 3752.4 SGR 2552.3 SG3 268.1
 RRT -.9580 RRF .9905 RTF -.9882
 SGB 4538.1 R23 -.0626 R13 .9980
 SG1 4496.8 SG2 610.7 THA 146.20

ORBIT DETERMINATION ACCURACY
 ST 3379.4 SR 2500.5 SS 2289.4
 CRT -.9959 CRS -.9992 CST .9987
 LSA 4783.4 MSA 184.9 SSA .7
 EL1 4200.1 EL2 181.1 ALF 143.53

DIFFERENTIAL CORRECTIONS
 TDE -5.2035 TRA -1.5084 TC3 -.1056 BAU .1463
 RDE 3.8874 RRA .4532 RC3 -.0880 FAU .00031
 FDE 4.5786 FRA .8823 FC3 -.0034 BSP 13888
 BDE 6.4953 BRA 1.5750 BC3 .1374 FSP -828

LAUNCH DATE NOV 25 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.727 GAL 5.84 AZL 23.53 HCA 179.11 SMA 128.99 ECC .17630 INC66.4746 V1 30.174
 RP 108.47 LAP .82 LOP 242.44 VP 37.658 GAP -4.42 AZP 156.47 TAL 150.57 TAP 329.68 RCA 106.25 APO 151.73 V2 34.936
 RC 57.109 GL 52.48 GP -61.41 ZAL 84.35 ZAP 85.31 ETS 173.95 ZAE 67.31 ETE 38.33 ZAC 117.85 ETC 339.73 CLP 80.16

DISTANCE 422.912

PLANETOCENTRIC CONIC
 C31016.662 VHL 31.885 DLA 40.78 RAL 319.94 RAD 6573.0 VEL 33.733 PTH 3.50 VHP 38.160 DPA -41.29 RAP 124.89 ECC17.7317
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.33 18 57 29 4843.50 .30 220.92 230.30 49.22 20 18 13 4243.5 -4.92 215.26
 120.67 1 50 59 3567.83 .31 123.56 230.29 49.22 2 50 26 2967.8 -4.91 117.91
 59.33 18 57 29 4843.50 .30 220.92 230.30 49.22 20 18 13 4243.5 -4.92 215.26
 120.67 1 50 59 3567.83 .31 123.56 230.29 49.22 2 50 26 2967.8 -4.91 117.91
 59.33 18 57 29 4843.50 .30 220.92 230.30 49.22 20 18 13 4243.5 -4.92 215.26
 120.67 1 50 59 3567.83 .31 123.56 230.29 49.22 2 50 26 2967.8 -4.91 117.91

MID-COURSE EXECUTION ACCURACY
 SGT 1714.4 SGR 3967.6 SG3 75.6
 RRT .9261 RRF -.9994 RTF -.9378
 SGB 4322.2 R23 -.0247 R13 -.9996
 SG1 4280.4 SG2 599.6 THA 67.73

ORBIT DETERMINATION ACCURACY
 ST 1397.6 SR 3484.2 SS 2513.0
 CRT .9909 CRS 1.0000 CST .9921
 LSA 4514.1 MSA 176.1 SSA 1.1
 EL1 3750.0 EL2 175.2 ALF 68.27

DIFFERENTIAL CORRECTIONS
 TDE -7.7389 TRA 1.9232 TC3 -.1400 BAU 4.3850
 RDE -19.3740 RRA -1.8173 RC3 -.2907 FAU -.07805
 FDE 4.2395 FRA .2925 FC3 .0665 BSP 14270
 BDE20.8624 BRA 2.6460 BC3 .3226 FSP -260

LAUNCH DATE NOV 25 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.756 GAL 5.62 AZL 102.68 HCA 182.90 SMA 129.19 ECC .17262 INC12.6776 V1 30.174
 RP 108.51 LAP .64 LOP 245.62 VP 37.668 GAP -3.75 AZP 77.34 TAL 151.08 TAP 333.98 RCA 106.89 APO 151.50 V2 34.923
 RC 59.010 GL -53.87 GP 74.16 ZAL 66.17 ZAP 75.59 ETS 304.14 ZAE 107.94 ETE 67.93 ZAC 87.35 ETC 141.47 CLP -24.28

DISTANCE 430.163

PLANETOCENTRIC CONIC
 C3 56.353 VHL 7.507 DLA -42.54 RAL 39.73 RAD 6569.0 VEL 13.331 PTH 2.44 VHP 10.768 DPA 69.88 RAP 319.12 ECC 1.9274
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.82 12 6 52 1817.75 18.22 34.88 288.69 129.13 12 37 10 1217.8 23.14 28.56
 123.18 19 18 8 5770.39 18.23 270.27 288.71 129.13 20 54 18 5170.4 23.16 263.94
 56.82 12 6 52 1817.75 18.22 34.88 288.69 129.13 12 37 10 1217.8 23.14 28.56
 123.18 19 18 8 5770.39 18.23 270.27 288.71 129.13 20 54 18 5170.4 23.16 263.94
 56.82 12 6 52 1817.75 18.22 34.88 288.69 129.13 12 37 10 1217.8 23.14 28.56
 123.18 19 18 8 5770.39 18.23 270.27 288.71 129.13 20 54 18 5170.4 23.16 263.94

MID-COURSE EXECUTION ACCURACY
 SGT 3230.2 SGR 3658.0 SG3 209.7
 RRT .9684 RRF -.9971 RTF -.9844
 SGB 4880.1 R23 -.0346 R13 -.9993
 SG1 4842.0 SG2 608.9 THA 48.67

ORBIT DETERMINATION ACCURACY
 ST 1260.5 SR 1101.9 SS 717.9
 CRT .8217 CRS .9734 CST .9304
 LSA 1751.5 MSA 500.8 SSA .9
 EL1 1599.4 EL2 494.9 ALF 40.34

DIFFERENTIAL CORRECTIONS
 TDE -1.1078 TRA -3.0083 TC3 -.0608 BAU .1605
 RDE -.1856 RRA -3.5162 RC3 .2042 FAU .00650
 FDE .3562 FRA 2.3239 FC3 -.0999 BSP 14558
 BDE 1.1232 BRA 4.6275 BC3 .2131 FSP -636

LAUNCH DATE NOV 25 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 10 1969

MELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.781 GAL 5.54 AZL 94.29 HCA 186.02 SMA 129.37 ECC .17062 INC 4.2852 VI 30.174
 RP 108.55 LAP .45 LOP 248.80 VP 37.675 GAP -3.29 AZP 85.74 TAL 151.07 TAP 337.09 RCA 107.30 APO 151.45 V2 34.911
 RC 60.976 GL -27.50 GP 56.13 ZAL 47.89 ZAP 66.79 ETS 323.76 ZAE 126.94 ETE 79.26 ZAC 93.03 ETC 152.10 CLP -45.01

PLANETOCENTRIC CONIC
 C3 20.027 VHL 4.475 DLA -16.98 RAL 30.63 RAD 6567.8 VEL 11.892 PTH 2.11 VHP 6.013 DPA 55.21 RAP 347.50 ECC 1.3296
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 11 24 53 1656.58 -3.28 8.64 251.25 118.14 11 52 29 1056.6 .51 2.01
 90.00 18 47 32 5416.86 28.08 248.80 258.09 86.20 20 17 49 4816.9 27.26 240.23
 100.00 12 36 31 1425.45 -4.50 350.98 250.58 119.58 13 0 16 825.4 -.53 344.44
 100.00 20 18 35 5123.23 29.47 227.07 257.96 84.75 21 43 59 4523.2 28.43 218.42
 110.00 13 23 21 1278.72 -7.60 337.94 248.67 123.43 13 44 40 678.7 -3.15 331.68
 110.00 21 48 15 4842.72 33.07 205.24 257.43 80.82 23 8 57 4242.7 31.45 196.39

DIFFERENTIAL CORRECTIONS
 TDE -.5845 TRA-1.5886 TC3 .0547 BAU .2858 SGT 2255.0 SGR 3817.6 SG3 535.3 ST 983.4 SR 1243.6 SS 1087.5
 RDE -.4603 RRA-2.7260 RC3 1.0661 FAU .04078 RRT .9581 RRF -.9996 RTF -.9615 CRT .9317 CRS -.9974 CST -.9556
 FDE .8774 FRA 4.3967 FC3-1.7628 BSP 13991 SGB 4433.8 R23 -.0604 R13 -.9979 LSA 1900.4 MSA 291.1 SSA 3.2
 BDE .7440 BRA 3.1551 BC3 1.0675 FSP -1671 SG1 4398.3 SG2 560.5 THA 59.95 EL1 1559.7 EL2 284.7 ALF 52.13

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 25 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 12 1969

MELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.804 GAL 5.48 AZL 91.64 HCA 189.19 SMA 129.53 ECC .16883 INC 1.6391 VI 30.174
 RP 108.58 LAP .26 LOP 251.98 VP 37.681 GAP -2.82 AZP 88.38 TAL 151.06 TAP 340.25 RCA 107.66 APO 151.40 V2 34.900
 RC 63.000 GL -11.52 GP 44.76 ZAL 41.51 ZAP 63.82 ETS 333.37 ZAE 138.24 ETE 81.77 ZAC 96.76 ETC 154.77 CLP -51.58

PLANETOCENTRIC CONIC
 C3 15.737 VHL 3.967 DLA -1.90 RAL 25.19 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 4.661 DPA 45.04 RAP 356.14 ECC 1.2590
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 59 35 2099.67 -16.62 34.34 242.38 113.26 9 34 35 1499.7 -13.34 27.20
 90.00 20 29 24 4861.69 19.64 210.63 243.14 69.19 21 50 26 4261.7 16.64 203.24
 100.00 10 20 3 1840.14 -17.57 14.81 241.94 114.58 10 50 43 1240.1 -14.11 7.73
 100.00 21 51 38 4596.46 20.61 190.72 242.73 67.86 23 8 14 3996.5 17.43 183.37
 110.00 11 26 15 1632.87 -20.11 357.75 240.61 118.25 11 53 28 1032.9 -16.17 350.83
 110.00 23 1 55 4376.49 23.19 172.78 241.49 64.15 24 14 51 3776.5 19.52 165.56

DIFFERENTIAL CORRECTIONS
 TDE -.4872 TRA-1.2196 TC3 .0094 BAU .2679 SGT 1897.8 SGR 3454.6 SG3 856.8 ST 880.2 SR 1282.3 SS 1552.7
 RDE -.5902 RRA-2.2086 RC3 1.2732 FAU .06808 RRT .9507 RRF -.9995 RTF -.9516 CRT .9800 CRS .9981 CST .9902
 FDE 1.8924 FRA 6.2678 FC3-3.7455 BSP 12595 SGB 3941.5 R23 -.0664 R13 -.9973 LSA 2192.9 MSA 145.1 SSA 7.2
 BDE .7652 BRA 2.5230 BC3 1.2733 FSP -2657 SG1 3907.0 SG2 520.4 THA 61.88 EL1 1548.5 EL2 145.0 ALF 55.73

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 25 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 14 1969

MELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.823 GAL 5.42 AZL 90.34 HCA 192.36 SMA 129.67 ECC .16732 INC .3406 VI 30.174
 RP 108.62 LAP .07 LOP 255.15 VP 37.685 GAP -2.36 AZP 89.66 TAL 151.05 TAP 343.41 RCA 107.97 APO 151.36 V2 34.889
 RC 65.076 GL -2.48 GP 37.40 ZAL 40.10 ZAP 64.33 ETS 340.61 ZAE 145.52 ETE 84.92 ZAC 98.58 ETC 156.82 CLP -56.95

PLANETOCENTRIC CONIC
 C3 14.828 VHL 3.851 DLA 6.55 RAL 21.98 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 4.033 DPA 37.96 RAP 359.62 ECC 1.2440
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 43 36 2349.76 -22.60 50.23 240.27 107.53 8 22 45 1749.8 -19.99 42.53
 90.00 21 19 49 4584.88 12.12 193.80 237.79 64.21 22 36 14 3984.9 8.56 186.94
 100.00 9 8 3 2077.33 -23.60 29.84 239.91 108.90 9 42 41 1477.3 -20.80 22.16
 100.00 22 38 2 4332.53 13.06 174.77 237.31 62.87 23 50 15 3732.5 9.32 167.97
 110.00 10 23 26 1841.42 -26.25 10.82 238.80 112.73 10 54 8 1241.4 -22.94 3.22
 110.00 23 39 9 4141.21 15.54 158.83 235.89 59.16 24 48 10 3541.2 11.34 152.25

DIFFERENTIAL CORRECTIONS
 TDE -.4151 TRA -.9522 TC3 -.0930 BAU .2439 SGT 1555.7 SGR 3129.8 SG3 1128.9 ST 751.3 SR 1279.5 SS 1974.2
 RDE -.6437 RRA-1.8868 RC3 1.2267 FAU .08929 RRT .9353 RRF -.9992 RTF -.9357 CRT .9927 CRS .9980 CST .9981
 FDE 3.0030 FRA 7.7474 FC3-5.2131 BSP 11273 SGB 3495.1 R23 -.0653 R13 -.9971 LSA 2468.0 MSA 86.6 SSA 12.9
 BDE .7660 BRA 2.1135 BC3 1.2302 FSP -3496 SG1 3459.5 SG2 498.2 THA 64.50 EL1 1481.7 EL2 78.5 ALF 59.67

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 25 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 16 1969

MELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.840 GAL 5.38 AZL 89.57 HCA 195.53 SMA 129.78 ECC .16608 INC .4258 VI 30.174
 RP 108.65 LAP -.11 LOP 258.33 VP 37.687 GAP -1.90 AZP 90.41 TAL 151.02 TAP 346.55 RCA 108.23 APO 151.34 V2 34.878
 RC 67.198 GL 3.10 GP 32.33 ZAL 40.10 ZAP 66.82 ETS 346.20 ZAE 150.45 ETE 89.85 ZAC 99.10 ETC 158.61 CLP -62.23

PLANETOCENTRIC CONIC
 C3 14.645 VHL 3.827 DLA 11.74 RAL 19.91 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 3.662 DPA 32.71 RAP .91 ECC 1.2410
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 53 56 2515.61 -25.55 61.48 239.76 102.64 7 35 51 1915.6 -23.56 53.38
 90.00 21 52 56 4413.49 6.87 183.95 235.52 62.46 23 6 30 3813.5 3.13 177.26
 100.00 8 21 13 2234.07 -26.64 40.49 239.47 104.09 8 58 28 1634.1 -24.44 32.38
 100.00 23 8 19 4170.27 7.86 165.53 234.99 61.07 24 17 50 3570.3 3.94 158.94
 110.00 9 42 56 1978.39 -29.51 20.13 238.53 108.09 10 15 54 1378.4 -26.75 12.03
 110.00 0 7 2 3998.71 10.42 150.96 233.44 57.26 1 13 41 3398.7 6.03 144.62

DIFFERENTIAL CORRECTIONS
 TDE -.3212 TRA -.6987 TC3 -.2228 BAU .2273 SGT 1184.0 SGR 2864.4 SG3 1357.0 ST 577.9 SR 1242.9 SS 2319.6
 RDE -.6546 RRA-1.6652 RC3 1.1393 FAU .10647 RRT .8973 RRF -.9988 RTF -.8977 CRT .9968 CRS .9976 CST .9996
 FDE 4.0588 FRA 8.9315 FC3-6.2941 BSP 10075 SGB 3099.4 R23 -.0576 R13 -.9972 LSA 2693.2 MSA 76.3 SSA 15.9
 BDE .7292 BRA 1.8058 BC3 1.1608 FSP -4224 SG1 3060.6 SG2 489.1 THA 69.09 EL1 1370.1 EL2 41.8 ALF 65.11

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 25 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 462.399

RL 147.66 LAL .00 LOL 62.80 VL 27.853 GAL 5.35 AZL 89.06 MCA 198.71 SMA 129.88 ECC .16511 INC .9418 V1 30.174
 RP 108.68 LAP -.30 LOP 261.50 VP 37.688 GAP -1.46 AZP 90.89 TAL 150.97 TAP 349.67 RCA 108.44 APO 151.32 V2 34.867
 RC 69.360 GL 6.84 GP 28.62 ZAL 40.47 ZAP 70.50 ETS 350.59 ZAE 153.77 ETE 96.90 ZAC 98.73 ETC 160.20 CLP -67.65

PLANETOCENTRIC CONIC

C3 14.680 VHL 3.831 DLA 15.21 RAL 18.48 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 3.416 DPA 28.52 RAP 1.00 ECC 1.2416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 17 50 2636.28 -27.07 69.99 239.72 88.64 7 1 46 2036.3 -25.60 61.63
 90.00 22 17 37 4293.89 3.07 177.22 234.48 61.84 23 29 10 3693.9 -.72 170.59
 100.00 7 47 27 2347.24 -28.26 48.50 239.50 100.17 8 26 35 1747.2 -26.57 40.11
 100.00 23 30 40 4058.16 4.12 159.31 233.90 60.37 24 38 18 3458.2 .14 152.78
 110.00 9 14 10 2075.94 -31.37 27.12 238.72 104.34 9 48 46 1475.9 -29.08 18.67
 110.00 0 24 23 3902.22 6.83 145.81 232.22 56.42 1 29 25 3302.2 2.37 139.56

DIFFERENTIAL CORRECTIONS

TDE -.2004 TRA -.4404 TC3 -.3746 BAU .2193
 RDE -.6437 RRA-1.4996 RC3 1.0527 FAU .12052
 FDE 5.0238 FRA 9.8962 FC3 7.1076 BSP .8950
 BOE .6742 BRA 1.5630 BC3 1.1174 FSP -4850

MID-COURSE EXECUTION ACCURACY

SGT 798.7 SGR 2641.6 SG3 1548.7
 RRT .7786 RRF -.9982 RTF -.7790
 SGB 2759.7 R23 -.0407 R13 -.9974
 SG1 2716.3 SG2 487.4 THA 76.30

ORBIT DETERMINATION ACCURACY

ST 363.0 SR 1188.8 SS 2600.3
 CRT .9987 CRS .9970 CST .9979
 LSA 2880.8 MSA 84.6 SSA 15.5
 EL1 1242.9 EL2 18.0 ALF 73.04

LAUNCH DATE NOV 25 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 468.798

RL 147.66 LAL .00 LOL 62.80 VL 27.865 GAL 5.34 AZL 88.69 MCA 201.88 SMA 129.96 ECC .16441 INC 1.3118 V1 30.174
 RP 108.72 LAP -.49 LOP 264.67 VP 37.687 GAP -1.02 AZP 91.22 TAL 150.89 TAP 352.76 RCA 108.59 APO 151.33 V2 34.858
 RC 71.560 GL 9.50 GP 25.73 ZAL 40.88 ZAP 74.94 ETS 354.10 ZAE 155.77 ETE 105.94 ZAC 97.75 ETC 161.63 CLP -73.23

PLANETOCENTRIC CONIC

C3 14.802 VHL 3.847 DLA 17.69 RAL 17.45 RAD 6567.6 VEL 11.670 PTH 2.05 VHP 3.243 DPA 24.97 RAP .36 ECC 1.2436
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 50 2730.04 -27.85 76.74 239.84 95.34 6 35 20 2130.0 -26.82 68.22
 90.00 22 37 25 4203.80 .16 172.19 234.04 61.68 23 47 29 3603.8 -3.62 165.56
 100.00 7 21 32 2434.36 -29.14 54.83 239.68 96.96 8 2 6 1834.4 -27.88 46.25
 100.00 23 48 25 3974.72 1.30 154.72 233.41 60.13 24 54 39 3374.7 -2.68 148.20
 110.00 8 52 28 2149.82 -32.48 32.59 239.06 101.28 9 28 18 1549.8 -30.59 23.89
 110.00 0 37 53 3832.02 4.17 142.11 231.62 56.04 1 41 45 3232.0 -.32 135.90

DIFFERENTIAL CORRECTIONS

TDE -.0539 TRA -.1725 TC3 -.5463 BAU .2203
 RDE -.6195 RRA-1.3665 RC3 .9703 FAU .13147
 FDE 5.8790 FRA 10.6708 FC3 7.6897 BSP .7931
 BOE .6218 BRA 1.3773 BC3 1.1135 FSP -5370

MID-COURSE EXECUTION ACCURACY

SGT 505.8 SGR 2443.6 SG3 1706.0
 RRT .2721 RRF -.9974 RTF -.2717
 SGB 2495.4 R23 -.0112 R13 -.9973
 SG1 2447.6 SG2 485.9 THA 86.64

ORBIT DETERMINATION ACCURACY

ST 114.7 SR 1123.5 SS 2826.5
 CRT .9751 CRS .9961 CST .9558
 LSA 3042.2 MSA 96.2 SSA 14.6
 EL1 1129.1 EL2 25.3 ALF 84.31

LAUNCH DATE NOV 25 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 475.176

RL 147.66 LAL .00 LOL 62.80 VL 27.873 GAL 5.34 AZL 88.41 MCA 205.05 SMA 130.02 ECC .16396 INC 1.5919 V1 30.174
 RP 108.74 LAP -.67 LOP 267.84 VP 37.685 GAP -.59 AZP 91.44 TAL 150.78 TAP 355.83 RCA 108.70 APO 151.34 V2 34.848
 RC 73.792 GL 11.49 GP 23.38 ZAL 41.23 ZAP 79.88 ETS 356.96 ZAE 156.56 ETE 116.30 ZAC 96.33 ETC 162.89 CLP -78.96

PLANETOCENTRIC CONIC

C3 14.971 VHL 3.869 DLA 19.55 RAL 16.70 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 3.124 DPA 21.82 RAP 359.25 ECC 1.2464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 27 11 2806.52 -28.21 82.30 240.05 92.57 6 13 57 2206.5 -27.55 73.70
 90.00 22 54 8 4132.41 -2.14 168.21 233.95 61.76 24 3 0 3532.4 -5.90 161.55
 100.00 7 0 47 2504.66 -29.61 60.00 239.95 94.28 7 42 32 1904.7 -28.71 51.31
 100.00 0 7 8 3909.51 -.91 151.14 233.27 60.12 1 12 18 3309.5 -4.88 144.60
 110.00 8 35 28 2208.43 -33.18 37.02 239.47 98.75 9 12 17 1608.4 -31.61 28.15
 110.00 0 48 57 3778.50 2.13 139.31 231.37 55.88 1 51 55 3178.5 -2.36 133.11

DIFFERENTIAL CORRECTIONS

TDE .1158 TRA .1053 TC3 -.7284 BAU .2312
 RDE -.5833 RRA-1.2491 RC3 .8968 FAU .14017
 FDE 6.5826 FRA 11.2292 FC3 8.1059 BSP .7176
 BOE .5947 BRA 1.2536 BC3 1.1553 FSP -5810

MID-COURSE EXECUTION ACCURACY

SGT 612.0 SGR 2254.0 SG3 1824.1
 RRT -.6263 RRF -.9962 RTF .6289
 SGB 2335.6 R23 .0300 R13 -.9958
 SG1 2287.8 SG2 470.0 THA 100.08

ORBIT DETERMINATION ACCURACY

ST 179.3 SR 1045.6 SS 2994.5
 CRT -.9477 CRS .9949 CST -.9739
 LSA 3175.0 MSA 107.2 SSA 14.0
 EL1 1059.3 EL2 56.5 ALF 99.26

LAUNCH DATE NOV 25 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 481.532

RL 147.66 LAL .00 LOL 62.80 VL 27.880 GAL 5.35 AZL 88.19 MCA 208.22 SMA 130.07 ECC .16376 INC 1.8123 V1 30.174
 RP 108.77 LAP -.86 LOP 271.00 VP 37.682 GAP -.16 AZP 91.60 TAL 150.64 TAP 358.86 RCA 108.77 APO 151.37 V2 34.839
 RC 76.053 GL 13.02 GP 21.36 ZAL 41.51 ZAP 85.14 ETS 359.31 ZAE 156.21 ETE 126.88 ZAC 94.62 ETC 163.98 CLP -84.78

PLANETOCENTRIC CONIC

C3 15.177 VHL 3.896 DLA 21.00 RAL 16.17 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 3.047 DPA 18.93 RAP 357.86 ECC 1.2498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 8 17 2871.21 -28.32 87.03 240.31 90.20 5 56 8 2271.2 -27.99 78.38
 90.00 23 8 44 4073.84 -4.02 164.93 234.09 61.95 24 16 38 3473.8 -7.75 158.23
 100.00 6 43 44 2563.44 -29.83 64.35 240.27 91.99 7 26 27 1963.4 -29.24 55.60
 100.00 0 19 54 3856.84 -2.70 148.25 233.36 60.22 1 24 11 3256.8 -6.64 141.68
 110.00 8 21 48 2256.61 -33.62 40.72 239.94 96.60 8 59 25 1656.6 -32.34 31.72
 110.00 0 58 19 3736.44 .52 137.11 231.35 55.82 2 0 35 3136.4 -3.97 130.90

DIFFERENTIAL CORRECTIONS

TDE .3032 TRA .3890 TC3 -.9182 BAU .2505
 RDE -.5384 RRA-1.1421 RC3 .8253 FAU .14591
 FDE 7.1206 FRA 11.5749 FC3 8.3231 BSP .6782
 BOE .6179 BRA 1.2065 BC3 1.2346 FSP -6137

MID-COURSE EXECUTION ACCURACY

SGT 1042.2 SGR 2068.2 SG3 1901.2
 RRT -.8887 RRF -.9947 RTF .8931
 SGB 2316.0 R23 .0687 R13 -.9925
 SG1 2274.9 SG2 434.4 THA 115.10

ORBIT DETERMINATION ACCURACY

ST 482.9 SR 958.4 SS 3111.0
 CRT -.9783 CRS .9932 CST -.9955
 LSA 3288.8 MSA 117.2 SSA 13.5
 EL1 1069.4 EL2 89.7 ALF 116.44

LAUNCH DATE NOV 25 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.884 GAL 5.38 AZL 88.01 MCA 211.39 SMA 130.10 ECC .16380 INC 1.9915 V1 30.174
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.677 GAP .26 AZP 91.70 TAL 150.47 TAP 1.86 RCA 108.79 APO 151.41 V2 34.831
 RC 78.340 GL 14.22 GP 19.58 ZAL 41.71 ZAP 90.57 ETS 1.25 ZAE 154.88 ETE 136.61 ZAC 92.75 ETC 164.89 CLP -90.60

DISTANCE 487.865

PLANETOCENTRIC CONIC
 C3 15.418 VHL 3.927 CLA 22.15 RAL 15.79 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 3.007 DPA 16.25 RAP 356.32 ECC 1.2537
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 12 2927.50 -28.26 91.15 240.63 88.14 5 40 59 2327.5 -28.22 82.48
 90.00 23 21 49 4024.62 -5.59 162.17 234.40 62.20 24 28 54 3424.6 -9.27 155.42
 100.00 6 29 26 2613.95 -29.89 68.11 240.66 90.02 7 13 0 2014.0 -29.57 59.32
 100.00 0 31 12 3813.40 -4.16 145.86 233.61 60.37 1 34 45 3213.4 -8.08 139.26
 110.00 8 10 39 2297.33 -33.89 43.86 240.46 94.76 8 48 56 1697.3 -32.86 34.78
 110.00 1 6 29 3702.79 -.77 135.36 231.50 55.82 2 8 12 3102.8 -5.24 129.14

MID-COURSE EXECUTION ACCURACY
 SGT 1556.3 SGR 1883.9 SG3 1935.7
 RRT -.9476 RRF -.9925 RTF .9542
 SGB 2443.6 R23 .0871 R13 -.9896
 SG1 2412.6 SG2 388.1 THA 129.27

ORBIT DETERMINATION ACCURACY
 ST 799.2 SR 863.8 SS 3177.2
 CRT -.9806 CRS .9906 CST -.9981
 LSA 3385.7 MSA 126.0 SSA 13.2
 EL1 1171.1 EL2 115.4 ALF 132.73

DIFFERENTIAL CORRECTIONS
 TOE .5021 TRA .6733 TC3-1.1101 BAU .2769
 RDE -.4862 RRA-1.0416 RC3 .7563 FAU .14881
 FDE 7.4748 FRA11.7017 FC3-8.3560 BSP 6874
 BDE .6989 BRA 1.2403 BC3 1.3432 FSP -6347

LAUNCH DATE NOV 25 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.887 GAL 5.42 AZL 87.86 MCA 214.56 SMA 130.12 ECC .16409 INC 2.1408 V1 30.174
 RP 108.82 LAP -1.21 LOP 277.33 VP 37.672 GAP .68 AZP 91.76 TAL 150.27 TAP 4.83 RCA 108.77 APO 151.47 V2 34.824
 RC 80.651 GL 15.18 GP 17.97 ZAL 41.83 ZAP 96.04 ETS 2.85 ZAE 152.84 ETE 144.87 ZAC 90.83 ETC 165.63 CLP -96.35

DISTANCE 494.176

PLANETOCENTRIC CONIC
 C3 15.694 VHL 3.962 CLA 23.10 RAL 15.55 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 2.999 DPA 13.75 RAP 354.75 ECC 1.2583
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 19 2977.54 -28.10 94.80 241.01 86.32 5 27 57 2377.5 -28.31 86.14
 90.00 23 33 47 3982.62 -6.92 159.80 234.85 62.47 24 40 9 3382.6 -10.56 153.00
 100.00 6 17 21 2658.26 -29.85 71.40 241.10 88.29 7 1 39 2058.3 -29.77 62.60
 100.00 0 41 22 3777.12 -5.38 143.85 234.01 60.55 1 44 20 3177.1 -9.26 137.22
 110.00 8 1 28 2332.52 -34.06 46.60 241.04 93.15 8 40 20 1732.5 -33.24 37.45
 110.00 1 13 45 3675.63 -1.80 133.94 231.79 55.86 2 15 0 3075.6 -6.27 127.71

MID-COURSE EXECUTION ACCURACY
 SGT 2086.1 SGR 1703.3 SG3 1929.9
 RRT -.9652 RRF -.9895 RTF .9747
 SGB 2693.2 R23 .0829 R13 -.9889
 SG1 2670.6 SG2 347.9 THA 140.97

ORBIT DETERMINATION ACCURACY
 ST 1117.7 SR 765.5 SS 3200.4
 CRT -.9783 CRS .9867 CST -.9989
 LSA 3472.7 MSA 133.9 SSA 12.9
 EL1 1348.3 EL2 131.5 ALF 145.81

DIFFERENTIAL CORRECTIONS
 TOE .7070 TRA .9543 TC3-1.2964 BAU .3079
 RDE -.4297 RRA -.9473 RC3 .6876 FAU .14849
 FDE 7.6519 FRA11.6294 FC3-8.1911 BSP 7440
 BDE .8274 BRA 1.3446 BC3 1.4675 FSP -6424

LAUNCH DATE NOV 25 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.888 GAL 5.48 AZL 87.73 MCA 217.72 SMA 130.12 ECC .16462 INC 2.2678 V1 30.174
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.666 GAP 1.10 AZP 91.79 TAL 150.04 TAP 7.76 RCA 108.70 APO 151.54 V2 34.816
 RC 82.981 GL 15.93 GP 16.49 ZAL 41.87 ZAP 101.44 ETS 4.17 ZAE 150.33 ETE 151.53 ZAC 88.98 ETC 166.20 CLP -101.94

DISTANCE 500.465

PLANETOCENTRIC CONIC
 C3 16.010 VHL 4.001 CLA 23.87 RAL 15.42 RAD 6567.6 VEL 11.722 PTH 2.07 VHP 3.020 DPA 11.44 RAP 353.23 ECC 1.2635
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 26 15 3022.77 -27.85 98.08 241.46 84.69 5 16 38 2422.8 -28.30 89.45
 90.00 23 44 51 3946.43 -8.05 157.74 235.42 62.76 24 50 37 3346.4 -11.64 150.90
 100.00 6 7 3 2697.77 -29.73 74.33 241.62 86.75 6 52 1 2097.8 -29.87 65.53
 100.00 0 50 40 3746.65 -6.40 142.16 234.52 60.74 1 53 7 3146.7 -10.25 135.49
 110.00 7 53 54 2363.47 -34.14 49.01 241.69 91.72 8 33 18 1763.5 -33.53 39.82
 110.00 1 20 18 3653.72 -2.64 132.80 232.20 55.91 2 21 12 3053.7 -7.10 126.55

MID-COURSE EXECUTION ACCURACY
 SGT 2606.6 SGR 1529.7 SG3 1889.0
 RRT -.9698 RRF -.9852 RTF .9834
 SGB 3022.3 R23 .0681 R13 -.9895
 SG1 3004.9 SG2 323.4 THA 149.97

ORBIT DETERMINATION ACCURACY
 ST 1429.7 SR 667.7 SS 3188.4
 CRT -.9727 CRS .9807 CST -.9992
 LSA 3554.7 MSA 141.0 SSA 12.7
 EL1 1571.6 EL2 140.9 ALF 155.36

DIFFERENTIAL CORRECTIONS
 TOE .9132 TRA 1.2283 TC3-1.4706 BAU .3415
 RDE -.3712 RRA -.8597 RC3 .6188 FAU .14475
 FDE 7.6708 FRA11.3904 FC3-7.8273 BSP 8355
 BDE .9857 BRA 1.4993 BC3 1.5955 FSP -6354

LAUNCH DATE NOV 25 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 62.80 VL 27.887 GAL 5.55 AZL 87.62 MCA 220.89 SMA 130.12 ECC .16538 INC 2.3779 V1 30.174
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.659 GAP 1.51 AZP 91.80 TAL 149.77 TAP 10.66 RCA 108.60 APO 151.63 V2 34.810
 RC 85.328 GL 16.54 GP 15.14 ZAL 41.84 ZAP 106.69 ETS 5.25 ZAE 147.58 ETE 156.75 ZAC 87.26 ETC 166.60 CLP -107.31

DISTANCE 506.731

PLANETOCENTRIC CONIC
 C3 16.369 VHL 4.046 CLA 24.52 RAL 15.40 RAD 6567.7 VEL 11.737 PTH 2.07 VHP 3.068 DPA 9.33 RAP 351.85 ECC 1.2694
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 42 3064.16 -27.56 101.08 241.98 83.22 5 6 46 2464.2 -28.21 92.47
 90.00 23 55 12 3915.12 -9.03 155.95 236.09 63.05 25 0 27 3315.1 -12.57 149.07
 100.00 5 58 17 2733.42 -29.56 76.97 242.21 85.37 6 43 51 2133.4 -29.89 68.18
 100.00 0 59 14 3721.09 -7.25 140.74 235.14 60.92 2 1 15 3121.1 -11.07 134.04
 110.00 7 47 43 2391.09 -34.18 51.17 242.41 90.45 8 27 34 1791.1 -33.74 41.95
 110.00 1 26 18 3636.19 -3.31 131.88 232.71 55.96 2 26 54 3036.2 -7.76 125.62

MID-COURSE EXECUTION ACCURACY
 SGT 3100.3 SGR 1364.9 SG3 1817.3
 RRT -.9685 RRF -.9793 RTF .9878
 SGB 3387.4 R23 .0511 R13 -.9907
 SG1 3373.0 SG2 312.4 THA 156.70

ORBIT DETERMINATION ACCURACY
 ST 1725.2 SR 571.2 SS 3139.0
 CRT -.9627 CRS .9711 CST -.9994
 LSA 3624.1 MSA 147.6 SSA 12.5
 EL1 1811.4 EL2 147.2 ALF 162.20

DIFFERENTIAL CORRECTIONS
 TOE 1.1143 TRA 1.4907 TC3-1.6291 BAU .3767
 RDE -.3111 RRA -.7779 RC3 .5563 FAU .13937
 FDE 7.5323 FRA10.9980 FC3-7.3715 BSP 9516
 BDE 1.1569 BRA 1.6814 BC3 1.7215 FSP -6210

LAUNCH DATE NOV 25 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 512.974

RL 147.66 LAL .00 LOL 62.80 VL 27.884 GAL 5.64 AZL 87.53 HCA 224.06 SMA 130.10 ECC .16638 INC 2.4746 V1 30.174
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.652 GAP 1.92 AZP 91.78 TAL 149.47 TAP 13.52 RCA 108.45 APO 151.74 V2 34.804
 RC 87.691 GL 17.01 GP 13.89 ZAL 41.75 ZAP 111.72 ETS 6.14 ZAE 144.75 ETE 160.81 ZAC 85.74 ETC 166.87 CLP-112.41

PLANETOCENTRIC CONIC

C3 16.773 VHL 4.095 DLA 25.06 RAL 15.46 RAD 6567.7 VEL 11.754 PTH 2.07 VHP 3.141 DPA 7.42 RAP 350.64 ECC 1.2760
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 6 30 3102.40 -27.22 103.82 242.58 81.88 4 58 12 2502.4 -28.06 95.26
 90.00 0 8 51 3888.06 -9.86 154.40 236.87 63.32 1 13 39 3288.1 -13.36 147.47
 100.00 5 50 52 2765.88 -29.36 79.36 242.88 84.13 6 36 58 2165.9 -29.87 70.59
 100.00 1 7 10 3699.81 -7.95 139.55 235.85 61.09 2 8 49 3099.8 -11.75 132.82
 110.00 7 42 42 2416.03 -34.18 53.12 243.20 89.30 8 22 58 1816.0 -33.90 43.88
 110.00 1 31 50 3622.43 -3.83 131.16 233.32 56.01 2 32 12 3022.4 -8.27 124.88

DIFFERENTIAL CORRECTIONS

TOE 1.3082 TRA 1.7411 TC3-1.7674 BAU .4117
 ROE -.2525 RRA -.7038 RC3 .4979 FAU .13209
 FDE 7.2835 FRA 10.5091 FC3-6.8178 BSP 10772
 BOE 1.3323 BRA 1.8780 BC3 1.8362 FSP -5978

MID-COURSE EXECUTION ACCURACY

SGT 3560.3 SGR 1213.5 SG3 1724.6
 RRT -.9628 RRF -.9709 RTF .9903
 SGB 3761.4 R23 .0376 R13 -.9917
 SG1 3748.5 SG2 311.4 THA 161.70

ORBIT DETERMINATION ACCURACY

ST 2000.5 SR 480.9 SS 3065.4
 CRT -.9460 CRS .9554 CST -.9995
 LSA 3688.6 MSA 153.8 SSA 12.4
 EL1 2051.9 EL2 152.0 ALF 167.12

LAUNCH DATE NOV 25 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 519.193

RL 147.66 LAL .00 LOL 62.80 VL 27.880 GAL 5.74 AZL 87.44 HCA 227.22 SMA 130.07 ECC .16762 INC 2.5609 V1 30.174
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.644 GAP 2.33 AZP 91.74 TAL 149.13 TAP 16.35 RCA 108.27 APO 151.87 V2 34.799
 RC 90.065 GL 17.38 GP 12.75 ZAL 41.59 ZAP 116.48 ETS 6.86 ZAE 141.98 ETE 163.95 ZAC 84.46 ETC 167.02 CLP-117.20

PLANETOCENTRIC CONIC

C3 17.228 VHL 4.151 DLA 25.52 RAL 15.61 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 3.236 DPA 5.73 RAP 349.64 ECC 1.2835
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 58 29 3137.93 -26.85 106.36 243.26 80.66 4 50 47 2537.9 -27.87 97.84
 90.00 0 18 2 3864.84 -10.56 153.06 237.73 63.57 1 22 27 3264.8 -14.03 146.10
 100.00 5 44 40 2795.63 -29.13 81.54 243.63 83.00 6 31 15 2195.6 -29.80 72.80
 100.00 1 14 32 3682.38 -8.52 138.57 236.65 61.24 2 15 55 3082.4 -12.29 131.82
 110.00 7 38 43 2438.77 -34.14 54.89 244.08 88.25 8 19 22 1838.8 -34.01 45.65
 110.00 1 36 58 3612.00 -4.23 130.62 234.02 56.05 2 37 10 3012.0 -8.66 124.33

DIFFERENTIAL CORRECTIONS

TOE 1.4928 TRA 1.9796 TC3-1.8827 BAU .4455
 ROE -.1966 RRA -.6376 RC3 .4443 FAU .12344
 FDE 6.9578 FRA 9.9624 FC3-6.2030 BSP 12032
 BOE 1.5057 BRA 2.0797 BC3 1.9344 FSP -5679

MID-COURSE EXECUTION ACCURACY

SGT 3982.2 SGR 1077.4 SG3 1618.7
 RRT -.9530 RRF -.9595 RTF .9917
 SGB 4125.4 R23 .0279 R13 -.9924
 SG1 4113.3 SG2 316.1 THA 165.45

ORBIT DETERMINATION ACCURACY

ST 2252.5 SR 399.2 SS 2974.5
 CRT -.9180 CRS .9291 CST -.9996
 LSA 3749.1 MSA 159.5 SSA 12.3
 EL1 2282.3 EL2 156.2 ALF 170.72

LAUNCH DATE NOV 25 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 525.388

RL 147.66 LAL .00 LOL 62.80 VL 27.874 GAL 5.85 AZL 87.36 HCA 230.38 SMA 130.03 ECC .16909 INC 2.6388 V1 30.174
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.636 GAP 2.74 AZP 91.68 TAL 148.76 TAP 19.14 RCA 108.04 APO 152.01 V2 34.795
 RC 92.449 GL 17.65 GP 11.71 ZAL 41.37 ZAP 120.96 ETS 7.45 ZAE 139.34 ETE 166.40 ZAC 83.44 ETC 167.08 CLP-121.69

PLANETOCENTRIC CONIC

C3 17.737 VHL 4.212 DLA 25.90 RAL 15.83 RAD 6567.7 VEL 11.795 PTH 2.09 VHP 3.351 DPA 4.26 RAP 348.87 ECC 1.2919
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 51 36 3171.08 -26.46 108.71 244.02 79.54 4 44 27 2571.1 -27.64 100.24
 90.00 0 26 41 3845.21 -11.16 151.92 238.68 63.80 1 30 46 3245.2 -14.59 144.93
 100.00 5 39 33 2823.01 -28.89 83.54 244.46 81.97 6 26 36 2223.0 -29.70 74.83
 100.00 1 21 24 3668.51 -8.97 137.79 237.53 61.37 2 22 33 3068.5 -12.73 131.02
 110.00 7 35 40 2459.70 -34.09 56.53 245.03 87.28 8 16 40 1859.7 -34.09 47.28
 110.00 1 41 46 3604.58 -4.51 130.23 234.80 56.08 2 41 51 3004.6 -8.94 123.93

DIFFERENTIAL CORRECTIONS

TOE 1.6666 TRA 2.2064 TC3-1.9756 BAU .4778
 ROE -.1438 RRA -.5790 RC3 .3966 FAU .11419
 FDE 6.5817 FRA 9.3889 FC3-5.5737 BSP 13258
 BOE 1.6728 BRA 2.2811 BC3 2.0150 FSP -5343

MID-COURSE EXECUTION ACCURACY

SGT 4364.0 SGR 957.5 SG3 1506.0
 RRT -.9385 RRF -.9440 RTF .9925
 SGB 4467.8 R23 .0213 R13 -.9929
 SG1 4456.1 SG2 323.6 THA 168.30

ORBIT DETERMINATION ACCURACY

ST 2478.9 SR 327.7 SS 2871.3
 CRT -.8704 CRS .8838 CST -.9996
 LSA 3803.9 MSA 165.0 SSA 12.2
 EL1 2495.4 EL2 160.3 ALF 173.41

LAUNCH DATE NOV 25 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 531.559

RL 147.66 LAL .00 LOL 62.80 VL 27.867 GAL 5.99 AZL 87.29 HCA 233.54 SMA 129.98 ECC .17081 INC 2.7098 V1 30.174
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.627 GAP 3.15 AZP 91.61 TAL 148.35 TAP 21.89 RCA 107.78 APO 152.18 V2 34.791
 RC 94.840 GL 17.83 GP 10.77 ZAL 41.10 ZAP 125.13 ETS 7.94 ZAE 136.86 ETE 168.31 ZAC 82.69 ETC 167.08 CLP-125.86

PLANETOCENTRIC CONIC

C3 18.306 VHL 4.279 DLA 26.22 RAL 16.12 RAD 6567.7 VEL 11.819 PTH 2.09 VHP 3.484 DPA 3.01 RAP 348.34 ECC 1.3013
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 46 3202.02 -26.06 110.88 244.86 78.52 4 39 8 2602.0 -27.39 102.47
 90.00 0 34 49 3829.01 -11.64 150.98 239.71 64.00 1 38 38 3229.0 -15.04 143.96
 100.00 5 35 29 2848.30 -28.64 85.38 245.38 81.04 6 22 57 2248.3 -29.58 76.70
 100.00 1 27 47 3657.96 -9.32 137.20 238.49 61.47 2 28 45 3058.0 -13.06 130.41
 110.00 7 33 29 2479.11 -34.01 58.04 246.08 86.39 8 14 48 1879.1 -34.14 48.79
 110.00 1 46 17 3599.92 -4.69 129.98 235.67 56.10 2 46 17 2999.9 -9.11 123.68

DIFFERENTIAL CORRECTIONS

TOE 1.8332 TRA 2.4266 TC3-2.0396 BAU .5066
 ROE -.0954 RRA -.5284 RC3 .3527 FAU .10403
 FDE 6.1969 FRA 8.8274 FC3-4.9197 BSP 14355
 BOE 1.8357 BRA 2.4835 BC3 2.0699 FSP -4962

MID-COURSE EXECUTION ACCURACY

SGT 4711.0 SGR 854.2 SG3 1393.7
 RRT -.9189 RRF -.9235 RTF .9928
 SGB 4787.8 R23 .0168 R13 -.9931
 SG1 4776.3 SG2 332.4 THA 170.49

ORBIT DETERMINATION ACCURACY

ST 2685.2 SR 269.1 SS 2767.3
 CRT -.7907 CRS .8873 CST -.9996
 LSA 3861.5 MSA 170.0 SSA 12.3
 EL1 2693.6 EL2 164.2 ALF 175.45

LAUNCH DATE NOV 25 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 537.705

RL 147.66 LAL .00 LOL 62.80 VL 27.859 GAL 6.14 AZL 87.22 HCA 236.71 SMA 129.92 ECC .17277 INC 2.7753 V1 30.174
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.619 GAP 3.56 AZP 91.52 TAL 147.91 TAP 24.62 RCA 107.47 APO 152.37 V2 34.788
 RC 97.236 GL 17.95 GP 9.92 ZAL 40.78 ZAP 129.02 ETS 8.35 ZAE 134.58 ETE 169.81 ZAC 82.21 ETC 167.03 CLP-129.73

PLANETOCENTRIC CONIC

C3 18.941 VHL 4.352 DLA 26.48 RAL 16.47 RAD 6567.8 VEL 11.846 PTH 2.10 VHP 3.634 DPA 1.96 RAP 348.03 ECC 1.3117
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 58 3230.83 -25.66 112.90 245.79 77.59 4 34 49 2630.8 -27.11 104.53
 90.00 0 42 25 3816.19 -12.02 150.23 240.81 64.17 1 46 1 3216.2 -15.40 143.18
 100.00 5 32 23 2871.66 -28.38 87.07 246.39 80.19 6 20 15 2271.7 -29.44 78.42
 100.00 1 33 41 3650.61 -9.56 136.78 239.52 61.54 2 34 32 3050.6 -13.29 129.98
 110.00 7 32 3 2497.21 -33.93 59.44 247.20 85.56 8 13 41 1897.2 -34.17 50.21
 110.00 1 50 31 3597.82 -4.77 129.87 236.61 56.11 2 50 28 2997.8 -9.19 123.57

DIFFERENTIAL CORRECTIONS

TDE 1.9867 TRA 2.6363 TC3-2.0869 BAU .5345
 RDE -.0499 RRA -.4838 RC3 .3156 FAU .09468
 FDE 5.7934 FRA 8.2711 FC3-4.3275 BSP 15428
 BDE 1.9873 BRA 2.6803 BC3 2.1107 FSP -4609

MID-COURSE EXECUTION ACCURACY

SGT 5017.6 SGR 765.6 SG3 1282.6
 RRT -.8929 RRF -.8969 RTF .9930
 SGB 5075.7 R23 .0134 R13 -.9932
 SG1 5064.2 SG2 341.5 THA 172.21

ORBIT DETERMINATION ACCURACY

ST 2863.1 SR 223.5 SS 2654.7
 CRT -.6574 CRS .6780 CST -.9996
 LSA 3906.9 MSA 174.9 SSA 12.3
 EL1 2866.8 EL2 168.2 ALF 177.05

LAUNCH DATE NOV 25 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 543.825

RL 147.66 LAL .00 LOL 62.80 VL 27.850 GAL 6.30 AZL 87.16 HCA 239.87 SMA 129.85 ECC .17499 INC 2.8361 V1 30.174
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.610 GAP 3.97 AZP 91.42 TAL 147.44 TAP 27.31 RCA 107.13 APO 152.58 V2 34.786
 RC 99.636 GL 18.00 GP 9.16 ZAL 40.40 ZAP 132.62 ETS 8.71 ZAE 132.49 ETE 171.01 ZAC 81.98 ETC 166.96 CLP-133.31

PLANETOCENTRIC CONIC

C3 19.647 VHL 4.432 DLA 26.70 RAL 16.88 RAD 6567.8 VEL 11.876 PTH 2.11 VHP 3.798 DPA 1.09 RAP 347.95 ECC 1.3233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 37 12 3257.55 -25.25 114.75 246.81 76.75 4 31 30 2657.6 -26.83 106.44
 90.00 0 49 27 3806.78 -12.30 149.68 241.99 64.29 1 52 54 3206.8 -15.66 142.62
 100.00 5 30 13 2893.24 -28.12 88.62 247.49 79.41 6 18 26 2293.2 -29.29 80.01
 100.00 1 39 8 3646.32 -9.69 136.54 240.63 61.58 2 39 54 3046.3 -13.42 129.73
 110.00 7 31 21 2514.21 -33.83 60.76 248.41 84.79 8 13 15 1914.2 -34.18 51.53
 110.00 1 54 29 3598.13 -4.76 129.89 237.62 56.11 2 54 28 2998.1 -9.18 123.58

DIFFERENTIAL CORRECTIONS

TDE 2.1315 TRA 2.8410 TC3-2.1130 BAU .5599
 RDE -.0080 RRA -.4451 RC3 .2829 FAU .08558
 FDE 5.4012 FRA 7.7469 FC3-3.7711 BSP 16410
 BDE 2.1315 BRA 2.8756 BC3 2.1318 FSP -4260

MID-COURSE EXECUTION ACCURACY

SGT 5291.2 SGR 691.2 SG3 1177.0
 RRT -.8600 RRF -.8634 RTF .9930
 SGB 5336.2 R23 .0109 R13 -.9931
 SG1 5324.7 SG2 350.4 THA 173.56

ORBIT DETERMINATION ACCURACY

ST 3019.1 SR 193.6 SS 2543.2
 CRT -.4568 CRS .4814 CST -.9996
 LSA 3948.1 MSA 179.5 SSA 12.3
 EL1 3020.4 EL2 172.2 ALF 178.32

LAUNCH DATE NOV 25 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 549.919

RL 147.66 LAL .00 LOL 62.80 VL 27.839 GAL 6.49 AZL 87.11 HCA 243.03 SMA 129.78 ECC .17747 INC 2.8932 V1 30.174
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.600 GAP 4.39 AZP 91.31 TAL 146.94 TAP 29.97 RCA 106.75 APO 152.81 V2 34.784
 RC 102.038 GL 17.99 GP 8.48 ZAL 39.99 ZAP 135.97 ETS 9.04 ZAE 130.60 ETE 171.96 ZAC 81.99 ETC 166.88 CLP-136.62

PLANETOCENTRIC CONIC

C3 20.432 VHL 4.520 DLA 26.87 RAL 17.35 RAD 6567.8 VEL 11.908 PTH 2.12 VHP 3.976 DPA .41 RAP 348.08 ECC 1.3363
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 34 29 3282.14 -24.86 116.44 247.92 75.99 4 29 11 2682.1 -26.54 108.18
 90.00 0 55 53 3800.84 -12.48 149.33 243.22 64.37 1 59 14 3200.8 -15.83 142.26
 100.00 5 28 56 2913.19 -27.86 90.05 248.68 78.70 6 17 29 2313.2 -29.13 81.47
 100.00 1 44 7 3645.03 -9.74 136.47 241.80 61.60 2 44 52 3045.0 -13.46 129.66
 110.00 7 31 18 2530.27 -33.72 62.00 249.71 84.06 8 13 28 1930.3 -34.18 52.79
 110.00 1 58 14 3600.72 -4.66 130.02 238.71 56.10 2 58 15 3000.7 -9.08 123.72

DIFFERENTIAL CORRECTIONS

TDE 2.2681 TRA 3.0429 TC3-2.1196 BAU .5831
 RDE .0309 RRA -.4114 RC3 .2541 FAU .07697
 FDE 5.0267 FRA 7.2601 FC3-3.2612 BSP 17302
 BDE 2.2683 BRA 3.0706 BC3 2.1348 FSP -3925

MID-COURSE EXECUTION ACCURACY

SGT 5534.8 SGR 629.4 SG3 1078.2
 RRT -.8197 RRF -.8224 RTF .9929
 SGB 5570.4 R23 .0089 R13 -.9930
 SG1 5558.9 SG2 358.9 THA 174.65

ORBIT DETERMINATION ACCURACY

ST 3154.6 SR 179.9 SS 2433.9
 CRT -.2029 CRS .2304 CST -.9996
 LSA 3984.2 MSA 183.9 SSA 12.4
 EL1 3154.8 EL2 176.1 ALF 179.34

LAUNCH DATE NOV 25 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 555.984

RL 147.66 LAL .00 LOL 62.80 VL 27.828 GAL 6.69 AZL 87.05 HCA 246.19 SMA 129.70 ECC .18022 INC 2.9472 V1 30.174
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.591 GAP 4.82 AZP 91.19 TAL 146.41 TAP 32.60 RCA 106.33 APO 153.08 V2 34.783
 RC 104.441 GL 17.93 GP 7.87 ZAL 39.53 ZAP 139.07 ETS 9.34 ZAE 128.90 ETE 172.74 ZAC 82.21 ETC 166.79 CLP-139.70

PLANETOCENTRIC CONIC

C3 21.303 VHL 4.616 DLA 27.01 RAL 17.86 RAD 6567.9 VEL 11.945 PTH 2.13 VHP 4.168 DPA -.12 RAP 348.40 ECC 1.3506
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 48 3304.55 -24.48 117.98 249.13 75.31 4 27 52 2704.5 -26.26 109.76
 90.00 1 1 40 3798.47 -12.55 149.19 244.52 64.41 2 4 58 3198.5 -15.89 142.11
 100.00 5 28 29 2931.59 -27.61 91.35 249.95 78.06 6 17 21 2331.6 -28.97 82.82
 100.00 1 48 39 3646.67 -9.68 136.56 243.04 61.58 2 49 26 3046.7 -13.41 129.75
 110.00 7 31 52 2545.52 -33.61 63.18 251.09 83.37 8 14 17 1945.5 -34.16 53.98
 110.00 2 1 46 3605.49 -4.48 130.27 239.86 56.08 3 1 51 3005.5 -8.90 123.98

DIFFERENTIAL CORRECTIONS

TDE 2.3982 TRA 3.2438 TC3-2.1082 BAU .6039
 RDE .0672 RRA -.3820 RC3 .2287 FAU .06889
 FDE 4.6760 FRA 6.8123 FC3-2.7995 BSP 18108
 BDE 2.3991 BRA 3.2662 BC3 2.1205 FSP -3610

MID-COURSE EXECUTION ACCURACY

SGT 5751.2 SGR 578.6 SG3 986.8
 RRT -.7717 RRF -.7737 RTF .9927
 SGB 5780.2 R23 .0071 R13 -.9927
 SG1 5768.6 SG2 366.8 THA 175.54

ORBIT DETERMINATION ACCURACY

ST 3271.8 SR 180.2 SS 2328.5
 CRT .0531 CRS -.0247 CST -.9996
 LSA 4015.4 MSA 188.0 SSA 12.6
 EL1 3271.8 EL2 180.0 ALF .17

LAUNCH DATE NOV 25 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 562.020

RL 147.66 LAL .00 LOL 62.80 VL 27.816 GAL 6.91 AZL 87.00 HCA 249.35 SMA 129.61 ECC .18326 INC 2.9986 V1 30.174
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.582 GAP 5.25 AZP 91.06 TAL 145.85 TAP 35.20 RCA 105.86 APO 153.37 V2 34.783
 RC 106.844 GL 17.82 GP 7.33 ZAL 39.03 ZAP 141.95 ETS 9.64 ZAE 127.36 ETE 173.37 ZAC 82.63 ETC 166.71 CLP-142.55

PLANETOCENTRIC CONIC

C3 22.271 VHL 4.719 DLA 27.10 RAL 18.42 RAD 6567.9 VEL 11.985 PTH 2.14 VHP 4.373 DPA -.50 RAP 348.89 ECC 1.3665
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 10 3324.71 -24.13 119.35 250.43 74.71 4 27 35 2724.7 -25.99 111.17
 90.00 1 6 44 3799.76 -12.51 149.27 245.87 64.39 2 10 3 3199.8 -15.85 142.19
 100.00 5 28 52 2948.55 -27.36 92.56 251.32 77.47 6 18 0 2348.6 -28.81 84.05
 100.00 1 52 43 3651.15 -9.54 136.81 244.33 61.54 2 53 35 3051.2 -13.27 130.01
 110.00 7 33 0 2560.10 -33.49 64.30 252.56 82.72 8 15 40 1960.1 -34.14 55.12
 110.00 2 5 5 3612.37 -4.22 130.63 241.08 56.05 3 5 17 3012.4 -8.65 124.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.5254 TRA 3.4491 TC3-2.0757 BAU .6210 SGT 5947.1 SGR 537.3 SG3 903.9 ST 3375.8 SR 190.5 SS 2230.7
 RDE .1009 RRA -.3563 RC3 .2055 FAU .06107 RRT -.7167 RRF -.7178 RTF .9923 CRT .2635 CRS -.2357 CST -.9996
 FDE 4.3569 FRA 6.4104 FC3-2.3738 BSP 18772 SGB 5971.3 R23 .0055 R13 -.9923 LSA 4046.2 MSA 191.8 SSA 12.6
 BDE 2.5275 BRA 3.4674 BC3 2.0858 FSP -3302 SGI 5959.6 SG2 373.9 THA 176.28 EL1 3376.2 EL2 183.7 ALF .85

LAUNCH DATE NOV 25 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 568.025

RL 147.66 LAL .00 LOL 62.80 VL 27.803 GAL 7.16 AZL 86.95 HCA 252.51 SMA 129.52 ECC .18660 INC 3.0479 V1 30.174
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.573 GAP 5.69 AZP 90.92 TAL 145.27 TAP 37.78 RCA 105.35 APO 153.69 V2 34.784
 RC 109.246 GL 17.67 GP 6.84 ZAL 38.50 ZAP 144.63 ETS 9.94 ZAE 125.98 ETE 173.89 ZAC 83.23 ETC 166.63 CLP-145.21

PLANETOCENTRIC CONIC

C3 23.344 VHL 4.832 DLA 27.17 RAL 19.01 RAD 6567.9 VEL 12.030 PTH 2.15 VHP 4.589 DPA -.75 RAP 349.55 ECC 1.3842
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 37 3342.59 -23.80 120.55 251.82 74.19 4 28 19 2742.6 -25.74 112.42
 90.00 1 11 3 3804.79 -12.36 149.56 247.27 64.32 2 14 28 3204.8 -15.72 142.49
 100.00 5 30 0 2964.18 -27.13 93.66 252.77 76.93 6 19 24 2364.2 -28.65 85.19
 100.00 1 56 21 3658.44 -9.30 137.23 245.68 61.46 2 57 19 3058.4 -13.04 130.43
 110.00 7 34 39 2574.11 -33.36 65.37 254.11 82.09 8 17 33 1974.1 -34.10 56.21
 110.00 2 8 11 3621.27 -3.88 131.10 242.37 56.01 3 8 32 3021.3 -8.31 124.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6447 TRA 3.6543 TC3-2.0350 BAU .6377 SGT 6117.8 SGR 504.0 SG3 827.5 ST 3460.4 SR 206.5 SS 2134.2
 RDE .1330 RRA -.3330 RC3 .1853 FAU .05428 RRT -.6550 RRF -.6553 RTF .9920 CRT .4195 CRS -.3929 CST -.9996
 FDE 4.0560 FRA 6.0397 FC3-2.0128 BSP 19434 SGB 6138.5 R23 .0040 R13 -.9920 LSA 4066.2 MSA 195.4 SSA 12.7
 BDE 2.6480 BRA 3.6695 BC3 2.0434 FSP -3034 SGI 6126.8 SG2 380.2 THA 176.90 EL1 3461.5 EL2 187.4 ALF 1.44

LAUNCH DATE NOV 25 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 573.996

RL 147.66 LAL .00 LOL 62.80 VL 27.789 GAL 7.42 AZL 86.90 HCA 255.67 SMA 129.42 ECC .19025 INC 3.0955 V1 30.174
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.564 GAP 6.14 AZP 90.77 TAL 144.66 TAP 40.33 RCA 104.80 APO 154.05 V2 34.785
 RC 111.645 GL 17.48 GP 6.40 ZAL 37.94 ZAP 147.13 ETS 10.26 ZAE 124.75 ETE 174.33 ZAC 83.99 ETC 166.56 CLP-147.69

PLANETOCENTRIC CONIC

C3 24.537 VHL 4.953 DLA 27.20 RAL 19.65 RAD 6568.0 VEL 12.080 PTH 2.16 VHP 4.818 DPA -.88 RAP 350.34 ECC 1.4038
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 34 6 3358.22 -23.51 121.61 253.31 73.74 4 30 4 2758.2 -25.51 113.51
 90.00 1 14 36 3813.57 -12.10 150.08 248.72 64.20 2 18 10 3213.6 -15.47 143.03
 100.00 5 31 52 2978.57 -26.90 94.67 254.31 76.45 6 21 31 2378.6 -28.50 86.23
 100.00 1 59 31 3668.45 -8.98 137.79 247.08 61.37 3 0 40 3068.4 -12.73 131.01
 110.00 7 36 48 2587.65 -33.23 66.41 255.73 81.49 8 19 55 1987.6 -34.05 57.26
 110.00 2 11 5 3632.14 -3.46 131.67 243.71 55.97 3 11 37 3032.1 -7.91 125.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7602 TRA 3.8645 TC3-1.9814 BAU .6523 SGT 6269.3 SGR 477.3 SG3 758.2 ST 3531.3 SR 225.1 SS 2043.1
 RDE .1636 RRA -.3120 RC3 .1670 FAU .04803 RRT -.5881 RRF -.5875 RTF .9916 CRT .5290 CRS -.5038 CST -.9995
 FDE 3.7811 FRA 5.7053 FC3-1.6947 BSP 20037 SGB 6287.4 R23 .0027 R13 -.9916 LSA 4081.1 MSA 198.7 SSA 12.7
 BDE 2.7651 BRA 3.8770 BC3 1.9885 FSP -2788 SGI 6275.6 SG2 385.6 THA 177.43 EL1 3533.3 EL2 190.9 ALF 1.94

LAUNCH DATE NOV 25 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 579.932

RL 147.66 LAL .00 LOL 62.80 VL 27.774 GAL 7.71 AZL 86.86 HCA 258.83 SMA 129.32 ECC .19424 INC 3.1418 V1 30.174
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.555 GAP 6.60 AZP 90.61 TAL 144.04 TAP 42.87 RCA 104.20 APO 154.44 V2 34.787
 RC 114.042 GL 17.25 GP 6.01 ZAL 37.35 ZAP 149.47 ETS 10.60 ZAE 123.64 ETE 174.70 ZAC 84.90 ETC 166.50 CLP-150.01

PLANETOCENTRIC CONIC

C3 25.863 VHL 5.086 DLA 27.20 RAL 20.31 RAD 6568.0 VEL 12.134 PTH 2.17 VHP 5.060 DPA -.91 RAP 351.26 ECC 1.4256
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 36 3371.69 -23.25 122.51 254.89 73.36 4 32 48 2771.7 -25.31 114.44
 90.00 1 17 24 3826.03 -11.73 150.81 250.20 64.04 2 21 10 3226.0 -15.13 143.78
 100.00 5 34 26 2991.86 -26.69 95.60 255.93 76.00 6 24 17 2391.9 -28.35 87.19
 100.00 2 2 16 3681.10 -8.56 138.50 248.53 61.25 3 3 37 3081.1 -12.34 131.74
 110.00 7 39 24 2600.81 -33.10 67.41 257.44 80.92 8 22 44 2000.8 -34.00 58.29
 110.00 2 13 47 3644.91 -2.98 132.34 245.11 55.93 3 14 32 3044.9 -7.43 126.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.8727 TRA 4.0813 TC3-1.9170 BAU .6649 SGT 6403.7 SGR 456.1 SG3 695.4 ST 3589.5 SR 244.3 SS 1957.1
 RDE .1930 RRA -.2926 RC3 .1504 FAU .04234 RRT -.5172 RRF -.5157 RTF .9911 CRT .6057 CRS -.5819 CST -.9995
 FDE 3.5302 FRA 5.4047 FC3-1.4172 BSP 20581 SGB 6419.9 R23 .0014 R13 -.9911 LSA 4090.7 MSA 201.8 SSA 12.8
 BDE 2.8792 BRA 4.0918 BC3 1.9229 FSP -2563 SGI 6408.1 SG2 390.1 THA 177.88 EL1 3592.5 EL2 194.2 ALF 2.37

LAUNCH DATE NOV 25 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 585.829

RL 147.66 LAL .00 LOL 62.80 VL 27.759 GAL 8.02 AZL 86.81 MCA 261.99 SMA 129.21 ECC .19859 INC 3.1871 V1 30.174
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.546 GAP 7.07 AZP 90.44 TAL 143.39 TAP 45.38 RCA 103.55 APO 154.87 V2 34.790
 RC 116.435 GL 16.99 GP 5.66 ZAL 36.73 ZAP 151.67 ETS 10.97 ZAE 122.63 ETE 175.02 ZAC 85.92 ETC 166.45 CLP-152.20

PLANETOCENTRIC CONIC

C3 27.337 VHL 5.228 DLA 27.18 RAL 21.00 RAD 6568.1 VEL 12.195 PTH 2.19 VHP 5.315 DPA -.84 RAP 352.29 ECC 1.4499
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 3 3383.18 -23.02 123.27 256.57 73.04 4 36 26 2783.2 -25.13 115.24
 90.00 1 19 29 3842.05 -11.25 151.74 251.72 63.84 2 23 31 3242.0 -14.68 144.74
 100.00 5 37 37 3004.17 -26.48 96.45 257.64 75.60 6 27 41 2404.2 -28.20 88.07
 100.00 2 4 36 3696.30 -8.06 139.35 250.03 61.12 3 6 12 3036.3 -11.86 132.62
 110.00 7 42 24 2613.69 -32.95 68.39 259.23 80.35 8 25 58 2013.7 -33.93 59.29
 110.00 2 16 18 3659.54 -2.42 133.10 246.56 55.89 3 17 18 3059.5 -6.88 126.86

DIFFERENTIAL CORRECTIONS

TDE 2.9837 TRA 4.3067 TC3-1.8423 BAU .6751
 RDE .2214 RRA -.2743 RC3 .1350 FAU .03711
 FDE 3.3025 FRA 5.1346 FC3-1.1753 BSP 21068
 BDE 2.9919 BRA 4.3154 BC3 1.8472 FSP -2357

MID-COURSE EXECUTION ACCURACY

SGT 6523.0 SGR 439.3 SG3 638.5
 RRT -.4437 RRF -.4413 RTF .9907
 SGB 6537.8 R23 -.0002 R13 -.9907
 SG1 6525.9 SG2 393.5 THA 178.28

ORBIT DETERMINATION ACCURACY

ST 3636.9 SR 263.0 SS 1876.5
 CRT .6605 CRS -.6379 CST -.9995
 LSA 4095.8 MSA 204.5 SSA 12.8
 EL1 3641.1 EL2 197.3 ALF 2.74

LAUNCH DATE NOV 25 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 591.685

RL 147.66 LAL .00 LOL 62.80 VL 27.743 GAL 8.36 AZL 86.77 MCA 265.16 SMA 129.10 ECC .20332 INC 3.2317 V1 30.174
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.538 GAP 7.56 AZP 90.27 TAL 142.72 TAP 47.88 RCA 102.85 APO 155.35 V2 34.794
 RC 118.823 GL 16.70 GP 5.35 ZAL 36.09 ZAP 153.75 ETS 11.38 ZAE 121.73 ETE 175.30 ZAC 87.06 ETC 166.41 CLP-154.26

PLANETOCENTRIC CONIC

C3 28.980 VHL 5.383 DLA 27.14 RAL 21.72 RAD 6568.2 VEL 12.262 PTH 2.21 VHP 5.583 DPA -.69 RAP 353.42 ECC 1.4769
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 21 3392.94 -22.82 123.92 258.34 72.77 4 40 54 2792.9 -24.97 115.91
 90.00 1 20 53 3861.41 -10.67 152.86 253.27 63.61 2 25 15 3261.4 -14.13 145.89
 100.00 5 41 23 3015.63 -26.28 97.25 259.43 75.22 6 31 39 2415.6 -28.06 88.90
 100.00 2 6 32 3713.95 -7.48 140.34 251.58 60.97 3 8 26 3114.0 -11.30 133.63
 110.00 7 45 48 2626.35 -32.81 69.35 261.09 79.80 8 29 34 2026.4 -33.86 60.27
 110.00 2 18 37 3675.99 -1.79 133.96 248.07 55.86 3 19 53 3076.0 -6.26 127.73

DIFFERENTIAL CORRECTIONS

TDE 3.0971 TRA 4.5459 TC3-1.7543 BAU .6813
 RDE .2490 RRA -.2569 RC3 .1207 FAU .03211
 FDE 3.1001 FRA 4.8970 FC3 -.9593 BSP 21426
 BDE 3.1071 BRA 4.5531 BC3 1.7584 FSP -2159

MID-COURSE EXECUTION ACCURACY

SGT 6632.5 SGR 426.1 SG3 587.6
 RRT -.3688 RRF -.3655 RTF .9902
 SGB 6646.2 R23 -.0011 R13 -.9902
 SG1 6634.4 SG2 395.9 THA 178.64

ORBIT DETERMINATION ACCURACY

ST 3678.2 SR 280.6 SS 1803.3
 CRT .7005 CRS -.6791 CST -.9995
 LSA 4100.8 MSA 206.8 SSA 12.8
 EL1 3683.4 EL2 200.0 ALF 3.07

LAUNCH DATE NOV 25 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 597.494

RL 147.66 LAL .00 LOL 62.80 VL 27.726 GAL 8.72 AZL 86.72 MCA 268.32 SMA 128.99 ECC .20847 INC 3.2759 V1 30.174
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.530 GAP 8.07 AZP 90.10 TAL 142.05 TAP 50.37 RCA 102.10 APO 155.88 V2 34.798
 RC 121.206 GL 16.39 GP 5.07 ZAL 35.44 ZAP 155.71 ETS 11.84 ZAE 120.91 ETE 175.54 ZAC 88.30 ETC 166.37 CLP-156.21

PLANETOCENTRIC CONIC

C3 30.813 VHL 5.551 DLA 27.06 RAL 22.45 RAD 6568.2 VEL 12.336 PTH 2.22 VHP 5.866 DPA -.46 RAP 354.64 ECC 1.5071
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 49 25 3401.23 -22.66 124.47 260.19 72.54 4 46 6 2801.2 -24.83 116.48
 90.00 1 21 41 3883.87 -9.99 154.16 254.86 63.36 2 26 25 3283.9 -13.48 147.23
 100.00 5 45 42 3026.37 -26.09 97.99 261.30 74.88 6 36 8 2426.4 -27.92 89.66
 100.00 2 8 5 3733.96 -6.82 141.46 253.17 60.83 3 10 19 3134.0 -10.66 134.77
 110.00 7 49 32 2638.88 -32.65 70.29 263.02 79.27 8 33 31 2038.9 -33.79 61.24
 110.00 2 20 44 3694.21 -1.09 134.91 249.63 55.83 3 22 19 3094.2 -5.57 128.69

DIFFERENTIAL CORRECTIONS

TDE 3.2064 TRA 4.7926 TC3-1.6650 BAU .6873
 RDE .2762 RRA -.2398 RC3 .1077 FAU .02779
 FDE 2.9120 FRA 4.6797 FC3 -.7808 BSP 21829
 BDE 3.2182 BRA 4.7986 BC3 1.6685 FSP -1989

MID-COURSE EXECUTION ACCURACY

SGT 6725.2 SGR 415.7 SG3 541.0
 RRT -.2937 RRF -.2897 RTF .9898
 SGB 6738.1 R23 -.0022 R13 -.9898
 SG1 6726.3 SG2 397.3 THA 178.96

ORBIT DETERMINATION ACCURACY

ST 3705.8 SR 297.1 SS 1732.4
 CRT .7307 CRS -.7103 CST -.9995
 LSA 4096.2 MSA 208.9 SSA 12.7
 EL1 3712.2 EL2 202.5 ALF 3.36

LAUNCH DATE NOV 25 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 603.252

RL 147.66 LAL .00 LOL 62.80 VL 27.709 GAL 9.12 AZL 86.68 MCA 271.48 SMA 128.87 ECC .21408 INC 3.3200 V1 30.174
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.522 GAP 8.59 AZP 89.91 TAL 141.36 TAP 52.84 RCA 101.28 APO 156.46 V2 34.803
 RC 123.581 GL 16.04 GP 4.81 ZAL 34.77 ZAP 157.57 ETS 12.35 ZAE 120.17 ETE 175.76 ZAC 89.62 ETC 166.34 CLP-158.07

PLANETOCENTRIC CONIC

C3 32.863 VHL 5.733 DLA 26.97 RAL 23.20 RAD 6568.3 VEL 12.419 PTH 2.24 VHP 6.165 DPA -.16 RAP 355.93 ECC 1.5408
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 55 8 3408.35 -22.51 124.94 262.13 72.35 4 51 57 2808.4 -24.71 116.97
 90.00 1 21 56 3909.15 -9.21 155.61 256.48 63.10 2 27 5 3309.2 -12.75 148.72
 100.00 5 50 29 3036.52 -25.91 98.69 263.24 74.55 6 41 5 2436.5 -27.78 90.39
 100.00 2 9 16 3756.21 -6.08 142.70 254.80 60.68 3 11 53 3156.2 -9.94 136.04
 110.00 7 53 35 2651.33 -32.49 71.23 265.03 78.73 8 37 46 2051.3 -33.70 62.20
 110.00 2 22 40 3714.17 -1.33 135.95 251.24 55.82 3 24 34 3114.2 -4.81 129.74

DIFFERENTIAL CORRECTIONS

TDE 3.3160 TRA 5.0525 TC3-1.5697 BAU .6909
 RDE .3031 RRA -.2226 RC3 .0957 FAU .02385
 FDE 2.7413 FRA 4.4851 FC3 -.6282 BSP 22200
 BDE 3.3298 BRA 5.0574 BC3 1.5726 FSP -1836

MID-COURSE EXECUTION ACCURACY

SGT 6806.3 SGR 407.6 SG3 498.8
 RRT -.2192 RRF -.2145 RTF .9894
 SGB 6818.5 R23 -.0032 R13 -.9894
 SG1 6806.9 SG2 397.6 THA 179.25

ORBIT DETERMINATION ACCURACY

ST 3725.0 SR 312.0 SS 1666.1
 CRT .7540 CRS -.7344 CST -.9995
 LSA 4087.1 MSA 210.6 SSA 12.6
 EL1 3732.5 EL2 204.6 ALF 3.62

LAUNCH DATE NOV 26 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 4 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 14.915 GAL 34.11 AZL 87.89 HCA 31.62 SMA 84.24 ECC .83830 INC 2.1113 VI 30.180
 RP 107.61 LAP 1.11 LOP 95.41 VP 29.849 GAP -55.42 AZP 88.20 TAL 172.12 TAP 203.75 RCA 13.62 APO 154.85 V2 35.214
 RC 94.200 GL 1.31 GP -.78 ZAL 64.07 ZAP 36.80 ETS 177.04 ZAE 130.23 ETE 184.71 ZAC 48.73 ETC 158.28 CLP 36.80

PLANETOCENTRIC CONIC
 C3 393.689 VHL 19.842 CLA 1.10 RAL 359.24 RAD 6572.1 VEL 22.693 PTH 3.26 VHP 30.521 DPA -20.59 RAP 315.70 ECC 7.4791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 49 53 2852.44 -28.30 85.66 265.31 90.89 7 37 25 2252.4 -27.88 77.02
 90.00 19 4 15 5428.14 28.13 249.62 264.13 86.61 20 34 43 4828.1 27.36 241.04
 100.00 8 11 44 2588.41 -29.88 66.21 265.28 91.02 8 54 52 1988.4 -29.42 57.43
 100.00 20 25 5 5167.40 29.70 230.34 264.02 86.45 21 51 12 4567.4 28.89 221.63
 110.00 9 21 9 2371.11 -34.16 49.61 265.17 91.37 10 0 40 1771.1 -33.59 40.41
 110.00 21 32 9 4957.46 33.97 214.07 263.69 85.97 22 54 46 4357.5 33.04 204.95

DIFFERENTIAL CORRECTIONS
 TOE -.9579 TRA-2.2600 TC3 -.1073 BAU .5657
 ROE-1.3994 RRA .7409 RC3 -.0068 FAU .01067
 FDE .3847 FRA .7615 FC3 -.0235 BSP 1996
 BOE 1.6958 BRA 2.3783 BC3 .1075 FSP -46

MID-COURSE EXECUTION ACCURACY
 SGT 826.9 SGR 458.1 SG3 22.8
 RRT -.0435 RRF .0387 RTF -.6183
 SGB 945.3 R23 .0000 R13 .6184
 SG1 827.3 SG2 457.4 THA 178.01

ORBIT DETERMINATION ACCURACY
 ST 339.1 SR 409.2 SS 340.8
 CRT .7150 CRS .7688 CST .9950
 LSA 590.2 MSA 223.6 SSA 14.1
 EL1 493.8 EL2 196.5 ALF 52.40

LAUNCH DATE NOV 26 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 6 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 15.734 GAL 32.40 AZL 87.75 HCA 34.86 SMA 85.60 ECC .81330 INC 2.2508 VI 30.180
 RP 107.59 LAP 1.29 LOP 98.65 VP 30.275 GAP -52.98 AZP 88.15 TAL 171.19 TAP 206.05 RCA 15.98 APO 155.22 V2 35.222
 RC 91.981 GL 1.57 GP -.80 ZAL 62.67 ZAP 35.27 ETS 177.04 ZAE 130.02 ETE 185.06 ZAC 50.34 ETC 158.86 CLP 35.26

PLANETOCENTRIC CONIC
 C3 362.456 VHL 19.038 CLA 1.90 RAL .43 RAD 6572.0 VEL 21.995 PTH 3.24 VHP 29.451 DPA -20.17 RAP 317.46 ECC 6.9651
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 48 43 2868.72 -28.32 86.85 266.28 90.30 7 36 32 2268.7 -27.97 78.20
 90.00 19 14 54 5395.08 27.97 247.21 264.26 85.41 20 44 49 4795.1 27.04 238.67
 100.00 8 10 57 2603.50 -29.89 67.33 266.27 90.43 8 54 20 2003.5 -29.51 58.55
 100.00 20 35 21 5135.54 29.54 227.98 264.11 85.22 22 0 57 4535.5 28.57 219.31
 110.00 9 21 13 2383.55 -34.17 50.58 266.21 90.80 10 0 57 1783.5 -33.69 41.37
 110.00 21 41 34 4928.25 33.81 211.80 263.66 84.64 23 3 43 4328.3 32.70 202.74

DIFFERENTIAL CORRECTIONS
 TOE -.9657 TRA-2.2850 TC3 -.1147 BAU .5570
 ROE-1.3587 RRA .7221 RC3 -.0078 FAU .01066
 FDE .4011 FRA .7898 FC3 -.0255 BSP 2126
 BOE 1.6669 BRA 2.3964 BC3 .1149 FSP -51

MID-COURSE EXECUTION ACCURACY
 SGT 865.2 SGR 464.1 SG3 24.5
 RRT -.0444 RRF .0397 RTF -.6370
 SGB 981.8 R23 -.0001 R13 .6371
 SG1 865.5 SG2 463.4 THA 178.09

ORBIT DETERMINATION ACCURACY
 ST 356.7 SR 414.1 SS 356.9
 CRT .7135 CRS .7698 CST .9948
 LSA 610.8 MSA 229.7 SSA 14.3
 EL1 507.0 EL2 204.1 ALF 50.92

LAUNCH DATE NOV 26 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 8 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 16.506 GAL 30.84 AZL 87.63 HCA 38.11 SMA 87.00 ECC .78796 INC 2.3695 VI 30.180
 RP 107.57 LAP 1.46 LOP 101.89 VP 30.692 GAP -50.68 AZP 88.14 TAL 170.25 TAP 208.36 RCA 18.45 APO 155.54 V2 35.229
 RC 89.765 GL 1.84 GP -.82 ZAL 61.31 ZAP 33.75 ETS 177.03 ZAE 129.88 ETE 185.42 ZAC 51.98 ETC 159.41 CLP 33.74

PLANETOCENTRIC CONIC
 C3 333.885 VHL 18.273 CLA 2.69 RAL 1.57 RAD 6571.9 VEL 21.335 PTH 3.21 VHP 28.416 DPA -19.73 RAP 319.24 ECC 6.4949
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 26 2884.31 -28.32 87.99 267.16 89.72 7 35 30 2284.3 -28.05 79.33
 90.00 19 25 18 5361.81 27.77 244.80 264.31 84.22 20 54 40 4761.8 26.68 236.30
 100.00 8 10 1 2617.90 -29.89 68.40 267.17 89.86 8 53 39 2017.9 -29.59 59.61
 100.00 20 45 24 5103.45 29.34 225.62 264.13 83.99 22 10 27 4503.4 28.20 217.00
 110.00 9 21 8 2395.31 -34.18 51.50 267.16 90.25 10 1 4 1795.3 -33.77 42.28
 110.00 21 50 46 4898.80 33.60 209.53 263.57 83.31 23 12 25 4298.8 32.31 200.53

DIFFERENTIAL CORRECTIONS
 TOE -.9740 TRA-2.3107 TC3 -.1224 BAU .5477
 ROE-1.3178 RRA .7024 RC3 -.0089 FAU .01066
 FDE .4178 FRA .8184 FC3 -.0276 BSP 2256
 BOE 1.6387 BRA 2.4151 BC3 .1227 FSP -56

MID-COURSE EXECUTION ACCURACY
 SGT 905.2 SGR 469.5 SG3 26.4
 RRT -.0450 RRF .0405 RTF -.6550
 SGB 1019.7 R23 -.0002 R13 .6551
 SG1 905.6 SG2 468.9 THA 178.17

ORBIT DETERMINATION ACCURACY
 ST 375.2 SR 418.5 SS 373.3
 CRT .7121 CRS .7707 CST .9946
 LSA 632.1 MSA 235.6 SSA 14.5
 EL1 520.7 EL2 211.7 ALF 49.36

LAUNCH DATE NOV 26 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 10 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 17.233 GAL 29.40 AZL 87.53 HCA 41.35 SMA 88.42 ECC .76245 INC 2.4721 VI 30.180
 RP 107.55 LAP 1.63 LOP 105.13 VP 31.096 GAP -48.49 AZP 88.14 TAL 169.32 TAP 210.67 RCA 21.00 APO 155.83 V2 35.235
 RC 87.555 GL 2.12 GP -.84 ZAL 60.00 ZAP 32.26 ETS 177.02 ZAE 129.81 ETE 185.81 ZAC 53.65 ETC 159.93 CLP 32.26

PLANETOCENTRIC CONIC
 C3 307.712 VHL 17.542 CLA 3.46 RAL 2.67 RAD 6571.8 VEL 20.713 PTH 3.18 VHP 27.415 DPA -19.26 RAP 321.03 ECC 6.0642
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 46 0 2899.19 -28.31 89.08 267.95 89.18 7 34 19 2299.2 -28.12 80.42
 90.00 19 35 29 5328.27 27.52 242.38 264.30 83.03 21 4 17 4728.3 26.26 233.94
 100.00 8 8 58 2631.60 -29.89 69.42 267.98 89.33 8 52 49 2031.6 -29.66 60.62
 100.00 20 55 12 5071.10 29.08 223.25 264.08 82.77 22 19 43 4471.1 27.78 214.69
 110.00 9 20 55 2406.38 -34.18 52.36 268.02 89.74 10 1 1 1806.4 -33.84 43.14
 110.00 21 59 44 4869.08 33.34 207.25 263.42 81.99 23 20 53 4269.1 31.88 198.33

DIFFERENTIAL CORRECTIONS
 TOE -.9819 TRA-2.3363 TC3 -.1303 BAU .5375
 ROE-1.2768 RRA .6819 RC3 -.0102 FAU .01068
 FDE .4348 FRA .8475 FC3 -.0300 BSP 2401
 BOE 1.6107 BRA 2.4338 BC3 .1307 FSP -61

MID-COURSE EXECUTION ACCURACY
 SGT 946.6 SGR 474.3 SG3 28.4
 RRT -.0455 RRF .0412 RTF -.6725
 SGB 1058.8 R23 -.0004 R13 .6726
 SG1 947.0 SG2 473.7 THA 178.26

ORBIT DETERMINATION ACCURACY
 ST 394.5 SR 422.4 SS 389.9
 CRT .7106 CRS .7716 CST .9944
 LSA 654.0 MSA 241.2 SSA 14.8
 EL1 534.8 EL2 219.2 ALF 47.74

LAUNCH DATE NOV 26 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 147.614

RL 147.63 LAL .00 LOL 63.81 VL 17.919 GAL 28.06 AZL 87.44 MCA 44.59 SMA 89.86 ECC .73692 INC 2.5623 V1 30.180
 RP 107.53 LAP 1.80 LOP 108.37 VP 31.488 GAP -46.41 A7P 88.17 TAL 168.39 TAP 212.98 RCA 23.64 APO 156.08 V2 35.240
 RC 85.353 GL 2.41 GP -.87 ZAL 58.74 ZAP 30.80 ETS 176.99 ZAE 129.79 ETE 186.21 ZAC 55.34 ETC 160.43 CLP 30.79

PLANETOCENTRIC CONIC

C3 283.705 VHL 16.844 CLA 4.23 RAL 3.72 RAD 6571.6 VEL 20.125 PTH 3.15 VHP 26.446 DPA -18.77 RAP 322.84 ECC 5.6691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 44 25 2913.40 -28.29 90.11 268.66 88.66 7 32 59 2313.4 -28.17 81.45
 90.00 19 45 26 5294.43 27.21 239.95 264.23 81.85 21 13 41 4694.4 25.80 231.56
 100.00 8 7 45 2644.63 -29.87 70.39 268.70 88.82 8 51 49 2044.6 -29.72 61.59
 100.00 21 4 48 5038.44 28.78 220.87 263.97 81.55 22 28 46 4438.4 27.31 212.37
 110.00 9 20 33 2416.79 -34.18 53.18 268.78 89.26 10 0 49 1816.8 -33.90 43.94
 110.00 22 8 29 4839.04 33.03 204.96 263.19 80.66 23 29 8 4239.0 31.39 196.12

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9900 TRA-2.3618 TC3 -.1384 BAU .5266 SGT 989.8 SGR 478.5 SG3 30.6 ST 414.8 SR 425.7 SS 407.0
 RDE -1.2355 RRA .6607 RC3 -.0116 FAU .01071 RRT -.0459 RRF .0418 RTF -.6894 CRT .7092 CRS .7725 CST .9942
 FDE .4522 FRA .8771 FC3 -.0327 BSP 2549 SGB 1099.4 R23 -.0005 R13 .6894 LSA 676.7 MSA 246.4 SSA 15.0
 BDE 1.5833 BRA 2.4525 BC3 .1389 FSP -67 SG1 990.1 SG2 477.8 THA 178.34 EL1 549.5 EL2 226.5 ALF 46.05

LAUNCH DATE NOV 26 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 153.367

RL 147.63 LAL .00 LOL 63.81 VL 18.566 GAL 26.81 AZL 87.36 MCA 47.84 SMA 91.32 ECC .71152 INC 2.6428 V1 30.180
 RP 107.52 LAP 1.96 LOP 111.61 VP 31.865 GAP -44.44 A7P 88.23 TAL 167.47 TAP 215.31 RCA 26.34 APO 156.30 V2 35.245
 RC 83.158 GL 2.71 GP -.89 ZAL 57.53 ZAP 29.35 ETS 176.96 ZAE 129.85 ETE 186.63 ZAC 57.06 ETC 160.91 CLP 29.34

PLANETOCENTRIC CONIC

C3 261.661 VHL 16.176 CLA 4.99 RAL 4.72 RAD 6571.5 VEL 19.570 PTH 3.11 VHP 25.506 DPA -18.26 RAP 324.66 ECC 5.3063
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 41 2926.94 -28.26 91.10 269.27 88.16 7 31 28 2326.9 -28.22 82.44
 90.00 19 55 11 5260.24 26.86 237.51 264.09 80.68 21 22 52 4660.2 25.30 229.19
 100.00 8 6 23 2656.99 -29.85 71.31 269.32 88.33 8 50 40 2057.0 -29.76 62.50
 100.00 21 14 11 5005.43 28.43 218.48 263.79 80.34 22 37 36 4405.4 26.80 210.05
 110.00 9 20 1 2426.53 -34.16 53.94 269.45 88.81 10 0 27 1826.5 -33.95 44.70
 110.00 22 17 2 4808.65 32.67 202.66 262.91 79.35 23 37 11 4208.7 30.86 193.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9978 TRA-2.3870 TC3 -.1466 BAU .5150 SGT 1034.5 SGR 482.0 SG3 32.9 ST 435.8 SR 428.5 SS 424.4
 RDE -1.1943 RRA .6388 RC3 -.0132 FAU .01076 RRT -.0462 RRF .0423 RTF -.7056 CRT .7078 CRS .7734 CST .9940
 FDE .4700 FRA .9072 FC3 -.0356 BSP 2710 SGB 1141.3 R23 -.0007 R13 .7057 LSA 700.2 MSA 251.4 SSA 15.1
 BDE 1.5562 BRA 2.4710 BC3 .1472 FSP -73 SG1 1034.8 SG2 481.4 THA 178.43 EL1 564.8 EL2 233.6 ALF 44.31

LAUNCH DATE NOV 26 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 159.226

RL 147.63 LAL .00 LOL 63.81 VL 19.175 GAL 25.63 AZL 87.28 MCA 51.08 SMA 92.79 ECC .68634 INC 2.7154 V1 30.180
 RP 107.51 LAP 2.11 LOP 114.86 VP 32.229 GAP -42.56 A7P 88.29 TAL 166.56 TAP 217.64 RCA 29.10 APO 156.47 V2 35.249
 RC 80.975 GL 3.02 GP -.92 ZAL 56.37 ZAP 27.93 ETS 176.91 ZAE 129.98 ETE 187.07 ZAC 58.81 ETC 161.36 CLP 27.91

PLANETOCENTRIC CONIC

C3 241.402 VHL 15.537 CLA 5.75 RAL 5.68 RAD 6571.4 VEL 19.045 PTH 3.08 VHP 24.595 DPA -17.73 RAP 326.49 ECC 4.9729
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 40 47 2939.84 -28.23 92.05 269.79 87.69 7 29 47 2339.8 -28.25 83.38
 90.00 20 4 44 5225.66 26.45 235.06 263.89 79.51 21 31 50 4625.7 24.74 226.81
 100.00 8 4 51 2668.70 -29.82 72.18 269.86 87.88 8 49 19 2068.7 -29.80 63.37
 100.00 21 23 22 4972.03 28.02 216.08 263.56 79.14 22 46 14 4372.0 26.24 207.73
 110.00 9 19 19 2435.62 -34.15 54.65 270.02 88.39 9 59 55 1835.6 -34.00 45.40
 110.00 22 25 22 4777.88 32.26 200.35 262.57 78.04 23 45 0 4177.9 30.28 191.70

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0058 TRA-2.4117 TC3 -.1551 BAU .5029 SGT 1081.1 SGR 484.9 SG3 35.4 ST 457.9 SR 430.6 SS 442.2
 RDE -1.1529 RRA .6165 RC3 -.0149 FAU .01082 RRT -.0462 RRF .0426 RTF -.7212 CRT .7065 CRS .7743 CST .9937
 FDE .4882 FRA .9379 FC3 -.0388 BSP 2875 SGB 1184.9 R23 -.0009 R13 .7212 LSA 724.6 MSA 255.9 SSA 15.3
 BDE 1.5300 BRA 2.4892 BC3 .1558 FSP -80 SG1 1081.4 SG2 484.2 THA 178.51 EL1 580.9 EL2 240.2 ALF 42.52

LAUNCH DATE NOV 26 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 165.186

RL 147.63 LAL .00 LOL 63.81 VL 19.749 GAL 24.52 AZL 87.22 MCA 54.33 SMA 94.26 ECC .66151 INC 2.7817 V1 30.180
 RP 107.50 LAP 2.26 LOP 118.10 VP 32.577 GAP -40.76 A7P 88.38 TAL 165.66 TAP 219.99 RCA 31.91 APO 156.61 V2 35.253
 RC 78.802 GL 3.35 GP -.95 ZAL 55.25 ZAP 26.52 ETS 176.84 ZAE 130.18 ETE 187.53 ZAC 60.57 ETC 161.79 CLP 26.51

PLANETOCENTRIC CONIC

C3 222.772 VHL 14.926 CLA 6.50 RAL 6.60 RAD 6571.3 VEL 18.550 PTH 3.05 VHP 23.711 DPA -17.19 RAP 328.33 ECC 4.6663
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 38 42 2952.13 -28.19 92.94 270.21 87.24 7 27 54 2352.1 -28.28 84.28
 90.00 20 14 6 5190.63 26.00 232.60 263.63 78.36 21 40 37 4590.6 24.13 224.42
 100.00 8 3 8 2679.80 -29.79 73.00 270.30 87.45 8 47 48 2079.8 -29.83 64.20
 100.00 21 32 21 4938.20 27.56 213.67 263.26 77.95 22 54 39 4338.2 25.62 205.40
 110.00 9 18 28 2444.07 -34.13 55.31 270.50 88.00 9 59 12 1844.1 -34.03 46.06
 110.00 22 33 31 4746.69 31.80 198.04 262.16 76.74 23 52 38 4146.7 29.65 189.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0159 TRA-2.4380 TC3 -.1642 BAU .4915 SGT 1131.1 SGR 487.0 SG3 38.1 ST 481.8 SR 432.2 SS 460.7
 RDE -1.1115 RRA .5937 RC3 -.0168 FAU .01089 RRT -.0456 RRF .0426 RTF -.7361 CRT .7058 CRS .7753 CST .9935
 FDE .5074 FRA .9697 FC3 -.0423 BSP 2990 SGB 1231.5 R23 -.0014 R13 .7361 LSA 750.6 MSA 259.9 SSA 15.5
 BDE 1.5058 BRA 2.5092 BC3 .1650 FSP -86 SG1 1131.4 SG2 486.4 THA 178.62 EL1 598.5 EL2 246.5 ALF 40.62

LAUNCH DATE NOV 26 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 171.239

RL 147.63 LAL .00 LOL 63.81 VL 20.290 GAL 23.47 AZL 87.16 HCA 57.57 SMA 95.73 ECC .63708 INC 2.8428 V1 30.180
 RP 107.49 LAP 2.40 LOP 121.35 VP 32.911 GAP -39.04 AZP 88.47 TAL 164.77 TAP 222.35 RCA 34.74 APO 156.72 V2 35.255
 RC 76.644 GL 3.69 GP -.98 ZAL 54.18 ZAP 25.13 ETS 176.75 ZAE 130.45 ETE 188.02 ZAC 62.36 ETC 162.20 CLP 25.11

PLANETOCENTRIC CONIC

C3 205.629 VHL 14.340 DLA 7.24 RAL 7.47 RAD 6571.2 VEL 18.082 PTH 3.01 VHP 22.854 CPA -16.62 RAP 330.17 ECC 4.3841
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 36 26 2963.84 -28.15 93.80 270.55 86.82 7 25 50 2363.8 -28.30 85.14
 90.00 20 23 18 5155.12 25.48 230.12 263.31 77.22 21 49 13 4555.1 23.47 222.03
 100.00 8 1 15 2690.29 -29.76 73.78 270.65 87.04 8 46 5 2090.3 -29.85 64.97
 100.00 21 41 10 4903.90 27.05 211.25 262.90 76.77 23 2 54 4303.9 24.96 203.07
 110.00 9 17 25 2451.91 -34.11 55.92 270.89 87.64 9 58 17 1851.9 -34.06 46.67
 110.00 22 41 29 4715.05 31.28 195.72 261.71 75.46 24 0 4 4115.0 28.97 187.28

DIFFERENTIAL CORRECTIONS

TDE-1.0273 TRA-2.4646 TC3 -.1736 BAU .4801
 RDE-1.0702 RRA .5706 RC3 -.0188 FAU .01096
 FDE .5273 FRA 1.0023 FC3 -.0462 BSP 3083
 BDE 1.4835 BRA 2.5298 BC3 .1747 FSP -93

MID-COURSE EXECUTION ACCURACY

SGT 1184.0 SGR 488.5 SG3 41.0
 RRT -.0445 RRF .0424 RTF -.7503
 SGB 1280.8 R23 -.0022 R13 .7504
 SG1 1184.2 SG2 487.9 THA 178.73

ORBIT DETERMINATION ACCURACY

ST 507.3 SR 433.1 SS 479.9
 CRT .7054 CRS .7764 CST .9933
 LSA 778.3 MSA 263.5 SSA 15.7
 EL1 617.6 EL2 252.2 ALF 38.66

LAUNCH DATE NOV 26 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 177.384

RL 147.63 LAL .00 LOL 63.81 VL 20.799 GAL 22.48 AZL 87.10 HCA 60.82 SMA 97.20 ECC .61316 INC 2.8996 V1 30.180
 RP 107.48 LAP 2.53 LOP 124.60 VP 33.229 GAP -37.40 AZP 88.59 TAL 163.90 TAP 224.72 RCA 37.60 APO 156.80 V2 35.257
 RC 74.503 GL 4.05 GP -1.02 ZAL 53.15 ZAP 23.76 ETS 176.64 ZAE 130.80 ETE 188.54 ZAC 64.16 ETC 162.59 CLP 23.74

PLANETOCENTRIC CONIC

C3 189.870 VHL 13.779 DLA 7.98 RAL 8.29 RAD 6571.0 VEL 17.641 PTH 2.98 VHP 22.022 CPA -16.03 RAP 332.02 ECC 4.1248
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 33 59 2975.03 -28.11 94.61 270.80 86.41 7 23 34 2375.0 -28.31 85.95
 90.00 20 32 20 5119.09 24.92 227.63 262.94 76.10 21 57 39 4519.1 22.76 219.63
 100.00 7 59 11 2700.26 -29.72 74.52 270.91 86.65 8 44 11 2100.3 -29.87 65.72
 100.00 21 49 50 4869.10 26.49 208.81 262.50 75.61 23 10 59 4269.1 24.25 200.73
 110.00 9 16 13 2459.19 -34.09 56.49 271.18 87.30 9 57 12 1859.2 -34.09 47.24
 110.00 22 49 17 4682.93 30.71 193.39 261.20 74.19 24 7 20 4082.9 28.24 185.06

DIFFERENTIAL CORRECTIONS

TDE-1.0870 TRA-2.5387 TC3 -.1935 BAU .4940
 RDE-1.0286 RRA .5478 RC3 -.0209 FAU .01078
 FDE .5541 FRA 1.0419 FC3 -.0492 BSP 2024
 BDE 1.4966 BRA 2.5971 BC3 .1946 FSP -88

MID-COURSE EXECUTION ACCURACY

SGT 1274.7 SGR 489.0 SG3 44.3
 RRT -.0338 RRF .0394 RTF -.7624
 SGB 1365.3 R23 -.0092 R13 .7625
 SG1 1274.8 SG2 488.7 THA 179.13

ORBIT DETERMINATION ACCURACY

ST 553.9 SR 433.3 SS 504.6
 CRT .7138 CRS .7789 CST .9942
 LSA 823.7 MSA 265.3 SSA 16.2
 EL1 654.7 EL2 256.7 ALF 35.41

LAUNCH DATE NOV 26 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 183.598

RL 147.63 LAL .00 LOL 63.81 VL 21.279 GAL 21.52 AZL 87.05 HCA 64.07 SMA 98.66 ECC .58973 INC 2.9530 V1 30.180
 RP 107.48 LAP 2.66 LOP 127.85 VP 33.533 GAP -35.82 AZP 88.71 TAL 163.05 TAP 227.12 RCA 40.48 APO 156.84 V2 35.258
 RC 72.381 GL 4.42 GP -1.06 ZAL 52.18 ZAP 22.39 ETS 176.49 ZAE 131.24 ETE 189.08 ZAC 65.98 ETC 162.96 CLP 22.37

PLANETOCENTRIC CONIC

C3 175.296 VHL 13.240 DLA 8.71 RAL 9.06 RAD 6570.9 VEL 17.223 PTH 2.94 VHP 21.211 CPA -15.43 RAP 333.88 ECC 3.8849
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 19 2985.62 -28.06 95.38 270.94 86.03 7 21 4 2385.6 -28.32 86.73
 90.00 20 41 11 5082.49 24.30 225.13 262.50 74.99 22 5 54 4482.5 22.00 217.21
 100.00 7 56 54 2709.60 -29.68 75.21 271.07 86.29 8 42 3 2109.6 -29.88 66.41
 100.00 21 58 17 4833.74 25.87 206.37 262.03 74.47 23 18 51 4233.7 23.48 198.38
 110.00 9 14 48 2465.81 -34.07 57.00 271.37 87.00 9 55 54 1865.8 -34.11 47.76
 110.00 22 56 53 4650.29 30.08 191.05 260.63 72.94 24 14 23 4050.3 27.45 182.85

DIFFERENTIAL CORRECTIONS

TDE-1.0088 TRA-2.4730 TC3 -.1838 BAU .4342
 RDE -.9883 RRA .5233 RC3 -.0235 FAU .01143
 FDE .5642 FRA 1.0649 FC3 -.0564 BSP 4271
 BDE 1.4123 BRA 2.5277 BC3 .1853 FSP -120

MID-COURSE EXECUTION ACCURACY

SGT 1264.7 SGR 489.2 SG3 47.3
 RRT -.0501 RRF .0438 RTF -.7785
 SGB 1356.1 R23 -.0021 R13 .7785
 SG1 1265.0 SG2 488.5 THA 178.70

ORBIT DETERMINATION ACCURACY

ST 544.3 SR 433.2 SS 515.7
 CRT .6973 CRS .7777 CST .9920
 LSA 822.7 MSA 270.1 SSA 15.8
 EL1 644.3 EL2 262.3 ALF 35.86

LAUNCH DATE NOV 26 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 189.895

RL 147.63 LAL .00 LOL 63.81 VL 21.731 GAL 20.62 AZL 87.00 HCA 67.32 SMA 100.11 ECC .56692 INC 3.0035 V1 30.180
 RP 107.48 LAP 2.77 LOP 131.10 VP 33.822 GAP -34.31 AZP 88.84 TAL 162.22 TAP 229.53 RCA 43.35 APO 156.86 V2 35.259
 RC 70.281 GL 4.80 GP -1.10 ZAL 51.26 ZAP 21.04 ETS 176.31 ZAE 131.75 ETE 189.66 ZAC 67.81 ETC 163.31 CLP 21.02

PLANETOCENTRIC CONIC

C3 161.918 VHL 12.725 DLA 9.44 RAL 9.80 RAD 6570.8 VEL 16.830 PTH 2.91 VHP 20.426 CPA -14.81 RAP 335.73 ECC 3.6648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 28 26 2995.82 -28.01 96.13 271.00 85.66 7 18 22 2395.8 -28.32 87.47
 90.00 20 49 55 5045.29 23.62 222.62 262.02 73.91 22 14 1 4445.3 21.18 214.79
 100.00 7 54 24 2718.53 -29.64 75.87 271.14 85.94 8 39 43 2118.5 -29.89 67.07
 100.00 22 6 38 4797.81 25.19 203.92 261.51 73.35 23 26 36 4197.8 22.66 196.03
 110.00 9 13 12 2471.97 -34.04 57.48 271.47 86.72 9 54 24 1872.0 -34.12 48.24
 110.00 23 4 20 4617.13 29.40 188.72 260.02 71.71 24 21 17 4017.1 26.62 180.63

DIFFERENTIAL CORRECTIONS

TDE-1.0335 TRA-2.5092 TC3 -.1963 BAU .4287
 RDE -.9475 RRA .4999 RC3 -.0261 FAU .01149
 FDE .5884 FRA 1.1021 FC3 -.0614 BSP 4061
 BDE 1.4021 BRA 2.5585 BC3 .1980 FSP -126

MID-COURSE EXECUTION ACCURACY

SGT 1333.4 SGR 488.4 SG3 50.9
 RRT -.0454 RRF .0423 RTF -.7903
 SGB 1420.0 R23 -.0008 R13 .7903
 SG1 1333.6 SG2 487.8 THA 178.90

ORBIT DETERMINATION ACCURACY

ST 578.7 SR 432.1 SS 538.2
 CRT .7001 CRS .7793 CST .9922
 LSA 858.5 MSA 271.7 SSA 16.0
 EL1 671.5 EL2 265.9 ALF 33.53

LAUNCH DATE NOV 26 1968

FLIGHT TIME 94.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 196.261

RL 147.63 LAL .00 LOL 63.81 VL 22.157 GAL 19.76 AZL 86.95 HCA 70.56 SMA 101.54 ECC .54474 INC 3.0517 V1 30.180
 RP 107.48 LAP 2.88 LOP 134.35 VP 34.096 GAP -32.86 AZP 88.98 TAL 161.40 TAP 231.97 RCA 46.23 APO 156.85 V2 35.259
 RC 68.209 GL 5.21 GP -1.14 ZAL 50.38 ZAP 19.71 ETS 176.08 ZAE 132.36 ETE 190.28 ZAC 69.66 ETC 163.64 CLP 19.67

PLANETOCENTRIC CONIC

C3 149.590 VHL 12.231 DLA 10.17 RAL 10.49 RAD 6570.6 VEL 16.460 PTH 2.87 VHP 19.663 DPA -14.18 RAP 337.59 ECC 3.4619
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 25 18 3005.61 -27.96 96.84 270.97 85.30 7 15 24 2405.6 -28.31 88.19
 90.00 20 58 32 5007.45 22.88 220.09 261.49 72.85 22 21 59 4407.4 20.32 212.36
 100.00 7 51 41 2727.01 -29.60 76.50 271.12 85.62 8 37 8 2127.0 -29.89 67.70
 100.00 22 14 50 4761.28 24.45 201.45 260.95 72.25 23 34 11 4161.3 21.79 193.66
 110.00 9 11 23 2477.64 -34.02 57.92 271.48 86.46 9 52 40 1877.6 -34.14 48.68
 110.00 23 11 38 4583.41 28.65 186.37 259.37 70.51 24 28 1 3983.4 25.73 178.42

DIFFERENTIAL CORRECTIONS

TDE-1.0420 TRA-2.5274 TC3 -.2050 BAU .4141
 RDE -.9070 RRA .4763 RC3 -.0290 FAU .01168
 FDE .6115 FRA 1.1383 FC3 -.0676 BSP 4244
 BDE 1.3814 BRA 2.5719 BC3 .2071 FSP -136

MID-COURSE EXECUTION ACCURACY

SGT 1391.7 SGR 486.8 SG3 54.8
 RRT -.0439 RRF .0415 RTF -.8022
 SGB 1474.3 R23 -.0014 R13 .8022
 SG1 1391.8 SG2 486.2 THA 179.00

ORBIT DETERMINATION ACCURACY

ST 607.2 SR 430.3 SS 559.6
 CRT 7.000 CRS 7.807 CST .9920
 LSA 890.0 MSA 273.1 SSA 16.1
 EL1 693.9 EL2 268.9 ALF 31.68

LAUNCH DATE NOV 26 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 202.690

RL 147.63 LAL .00 LOL 63.81 VL 22.557 GAL 18.93 AZL 86.90 HCA 73.81 SMA 102.95 ECC .52323 INC 3.0980 V1 30.180
 RP 107.48 LAP 2.98 LOP 137.60 VP 34.357 GAP -31.46 AZP 89.14 TAL 160.61 TAP 234.42 RCA 49.08 APO 156.81 V2 35.257
 RC 66.167 GL 5.63 GP -1.19 ZAL 49.55 ZAP 18.38 ETS 175.79 ZAE 133.06 ETE 190.94 ZAC 71.51 ETC 163.95 CLP 18.34

PLANETOCENTRIC CONIC

C3 138.237 VHL 11.757 DLA 10.90 RAL 11.13 RAD 6570.5 VEL 16.111 PTH 2.83 VHP 18.922 DPA -13.54 RAP 339.45 ECC 3.2750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 21 56 3015.07 -27.90 97.53 270.85 84.96 7 12 11 2415.1 -28.31 88.88
 90.00 21 7 1 4968.94 22.08 217.55 260.92 71.81 22 29 50 4368.9 19.39 209.91
 100.00 7 48 44 2735.13 -29.55 77.10 271.01 85.30 8 34 19 2135.1 -29.89 68.31
 100.00 22 22 54 4724.11 23.66 198.98 260.35 71.17 23 41 39 4124.1 20.87 191.29
 110.00 9 9 21 2482.88 -34.00 58.33 271.40 86.22 9 50 44 1882.9 -34.15 49.09
 110.00 23 18 47 4549.13 27.85 184.03 258.67 69.33 24 34 36 3949.1 24.78 176.20

DIFFERENTIAL CORRECTIONS

TDE-1.0507 TRA-2.5441 TC3 -.2137 BAU .3994
 RDE -.8669 RRA .4528 RC3 -.0320 FAU .01189
 FDE .6359 FRA 1.1758 FC3 -.0744 BSP 4425
 BDE 1.3621 BRA 2.5841 BC3 .2161 FSP -148

MID-COURSE EXECUTION ACCURACY

SGT 1452.2 SGR 484.4 SG3 59.1
 RRT -.0420 RRF .0405 RTF -.8135
 SGB 1530.8 R23 -.0020 R13 .8135
 SG1 1452.3 SG2 483.9 THA 179.10

ORBIT DETERMINATION ACCURACY

ST 637.1 SR 427.8 SS 582.0
 CRT 7.001 CRS 7.821 CST .9917
 LSA 923.2 MSA 273.9 SSA 16.3
 EL1 717.9 EL2 271.1 ALF 29.86

LAUNCH DATE NOV 26 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 209.177

RL 147.63 LAL .00 LOL 63.81 VL 22.934 GAL 18.14 AZL 86.86 HCA 77.06 SMA 104.34 ECC .50239 INC 3.1427 V1 30.180
 RP 107.49 LAP 3.06 LOP 140.85 VP 34.604 GAP -30.11 AZP 89.30 TAL 159.85 TAP 236.91 RCA 51.92 APO 156.75 V2 35.256
 RC 64.161 GL 6.07 GP -1.25 ZAL 48.77 ZAP 17.06 ETS 175.42 ZAE 133.86 ETE 191.65 ZAC 73.38 ETC 164.25 CLP 17.01

PLANETOCENTRIC CONIC

C3 127.781 VHL 11.304 DLA 11.63 RAL 11.72 RAD 6570.4 VEL 15.783 PTH 2.80 VHP 18.202 DPA -12.89 RAP 341.30 ECC 3.1029
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 18 3024.26 -27.85 98.19 270.65 84.63 7 8 42 2424.3 -28.30 89.56
 90.00 21 15 25 4929.72 21.23 214.99 260.30 70.81 22 37 35 4329.7 18.42 207.45
 100.00 7 45 31 2742.94 -29.51 77.67 270.82 85.00 8 31 14 2142.9 -29.89 68.89
 100.00 22 30 52 4686.28 22.80 196.49 259.70 70.13 23 48 59 4086.3 19.89 188.91
 110.00 9 7 5 2487.73 -33.98 58.71 271.23 85.99 9 48 33 1887.7 -34.16 49.47
 110.00 23 25 48 4514.26 26.99 181.68 257.94 68.18 24 41 2 3914.3 23.79 173.98

DIFFERENTIAL CORRECTIONS

TDE-1.0570 TRA-2.5563 TC3 -.2214 BAU .3830
 RDE -.8272 RRA .4295 RC3 -.0353 FAU .01214
 FDE .6613 FRA 1.2143 FC3 -.0823 BSP 4673
 BDE 1.3421 BRA 2.5921 BC3 .2242 FSP -161

MID-COURSE EXECUTION ACCURACY

SGT 1512.4 SGR 481.2 SG3 63.6
 RRT -.0404 RRF .0395 RTF -.8244
 SGB 1587.1 R23 -.0024 R13 .8244
 SG1 1512.5 SG2 480.8 THA 179.18

ORBIT DETERMINATION ACCURACY

ST 666.9 SR 424.5 SS 604.9
 CRT 7.000 CRS 7.836 CST .9915
 LSA 956.8 MSA 274.2 SSA 16.3
 EL1 742.1 EL2 272.4 ALF 28.14

LAUNCH DATE NOV 26 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 215.717

RL 147.63 LAL .00 LOL 63.81 VL 23.289 GAL 17.38 AZL 86.81 HCA 80.31 SMA 105.70 ECC .48226 INC 3.1863 V1 30.180
 RP 107.50 LAP 3.14 LOP 144.10 VP 34.837 GAP -28.82 AZP 89.46 TAL 159.11 TAP 239.41 RCA 54.72 APO 156.67 V2 35.253
 RC 62.196 GL 6.53 GP -1.31 ZAL 48.04 ZAP 15.75 ETS 174.96 ZAE 134.77 ETE 192.42 ZAC 75.26 ETC 164.53 CLP 15.69

PLANETOCENTRIC CONIC

C3 118.155 VHL 10.870 DLA 12.35 RAL 12.27 RAD 6570.2 VEL 15.476 PTH 2.76 VHP 17.503 DPA -12.23 RAP 343.16 ECC 2.9445
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 14 22 3033.28 -27.79 98.85 270.35 84.31 7 4 56 2433.3 -28.28 90.22
 90.00 21 23 43 4889.78 20.31 212.42 259.65 69.84 22 45 13 4289.8 17.38 204.97
 100.00 7 42 3 2750.52 -29.46 78.23 270.54 84.71 8 27 53 2150.5 -29.88 69.45
 100.00 22 38 44 4647.77 21.89 193.99 259.01 69.12 23 56 12 4047.8 18.86 186.51
 110.00 9 4 35 2492.26 -33.95 59.06 270.98 85.79 9 46 7 1892.3 -34.16 49.82
 110.00 23 32 41 4478.79 26.07 179.33 257.17 67.07 24 47 20 3878.8 22.74 171.76

DIFFERENTIAL CORRECTIONS

TDE-1.0663 TRA-2.5694 TC3 -.2296 BAU .3679
 RDE -.7879 RRA .4065 RC3 -.0388 FAU .01241
 FDE .6887 FRA 1.2548 FC3 -.0909 BSP 4853
 BDE 1.3258 BRA 2.6014 BC3 .2329 FSP -175

MID-COURSE EXECUTION ACCURACY

SGT 1577.1 SGR 477.2 SG3 68.5
 RRT -.0379 RRF .0381 RTF -.8345
 SGB 1647.8 R23 -.0033 R13 .8346
 SG1 1577.3 SG2 476.8 THA 179.28

ORBIT DETERMINATION ACCURACY

ST 699.4 SR 420.5 SS 629.2
 CRT 7.008 CRS 7.853 CST .9913
 LSA 993.3 MSA 273.7 SSA 16.5
 EL1 769.1 EL2 272.8 ALF 26.42

LAUNCH DATE NOV 26 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 222.305

RL 147.63 LAL .00 LOL 63.81 VL 23.622 GAL 16.66 AZL 86.77 MCA 83.55 SMA 107.03 ECC .46284 INC 3.2291 V1 30.180
 RP 107.51 LAP 3.21 LOP 147.35 VP 35.057 GAP -27.57 AZP 89.64 TAL 158.39 TAP 241.94 RCA 57.49 APO 156.57 V2 35.250
 RC 60.278 GL 7.00 GP -1.38 ZAL 47.36 ZAP 14.44 ETS 174.37 ZAE 135.78 ETE 193.25 ZAC 77.14 ETC 164.80 CLP 14.38

PLANETOCENTRIC CONIC

C3 109.296 VHL 10.454 DLA 13.08 RAL 12.78 RAD 6570.1 VEL 15.187 PTH 2.73 VHP 16.823 OPA -11.56 RAP 345.01 ECC 2.7987
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 10 8 3042.22 -27.72 99.49 269.98 83.99 7 0 51 2442.2 -28.27 90.87
 90.00 21 31 58 4849.07 19.34 209.83 258.95 68.90 22 52 47 4249.1 16.30 202.47
 100.00 7 38 17 2757.96 -29.42 78.78 270.17 84.43 8 24 15 2158.0 -29.88 70.01
 100.00 22 46 31 4608.56 20.92 191.49 258.29 68.15 24 3 19 4008.6 17.77 184.11
 110.00 9 1 49 2496.56 -33.93 59.39 270.64 85.59 9 43 26 1896.6 -34.17 50.16
 110.00 23 39 28 4442.73 25.09 176.99 256.37 65.99 24 53 30 3842.7 21.63 169.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.0733 TRA -2.5779 TC3 -.2367 BAU .3514 SGT 1641.6 SGR 472.4 SG3 73.9 ST 731.8 SR 415.7 SS 654.2
 RDE -.7492 RRA .3838 RC3 -.0426 FAU .01272 RRT -.0357 RRF .0368 RTF -.8443 CRT .7014 CRS .7871 CST .9911
 FDE .7175 FRA 1.2967 FC3 -.1008 BSP 5094 SGB 1708.2 R23 -.0040 R13 .8443 LSA 1030.4 MSA 272.6 SSA 16.5
 BDE 1.3089 BRA 2.6064 BC3 .2405 FSP -191 SG1 1641.7 SG2 472.1 THA 179.36 EL1 796.4 EL2 272.3 ALF 24.82

LAUNCH DATE NOV 26 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 228.935

RL 147.63 LAL .00 LOL 63.81 VL 23.935 GAL 15.96 AZL 86.73 MCA 86.80 SMA 108.33 ECC .44415 INC 3.2713 V1 30.180
 RP 107.52 LAP 3.27 LOP 150.60 VP 35.265 GAP -26.37 AZP 89.82 TAL 157.70 TAP 244.50 RCA 60.22 APO 156.45 V2 35.246
 RC 58.412 GL 7.50 GP -1.45 ZAL 46.73 ZAP 13.14 ETS 173.61 ZAE 136.90 ETE 194.15 ZAC 79.02 ETC 165.05 CLP 13.06

PLANETOCENTRIC CONIC

C3 101.146 VHL 10.057 DLA 13.81 RAL 13.23 RAD 6570.0 VEL 14.916 PTH 2.69 VHP 16.164 OPA -10.88 RAP 346.85 ECC 2.6646
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 5 35 3051.18 -27.66 100.14 269.52 83.67 6 56 26 2451.2 -28.25 91.52
 90.00 21 40 10 4807.57 18.30 207.23 258.23 68.01 23 0 17 4207.6 15.15 199.96
 100.00 7 34 13 2765.36 -29.37 79.32 269.73 84.14 8 20 18 2165.4 -29.87 70.55
 100.00 22 54 13 4568.62 19.89 188.97 257.54 67.21 24 10 22 3968.6 16.63 181.69
 110.00 8 58 48 2500.68 -33.91 59.71 270.22 85.40 9 40 29 1900.7 -34.17 50.48
 110.00 23 46 7 4406.07 24.06 174.64 255.55 64.95 24 59 33 3806.1 20.48 167.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.0803 TRA -2.5837 TC3 -.2429 BAU .3345 SGT 1707.4 SGR 466.7 SG3 79.7 ST 765.4 SR 410.0 SS 680.5
 RDE -.7110 RRA .3616 RC3 -.0466 FAU .01308 RRT -.0333 RRF .0354 RTF -.8536 CRT .7023 CRS .7890 CST .9909
 FDE .7483 FRA 1.3404 FC3 -.1120 BSP 5348 SGB 1770.0 R23 -.0047 R13 .8536 LSA 1069.3 MSA 270.9 SSA 16.6
 BDE 1.2933 BRA 2.6089 BC3 .2474 FSP -208 SG1 1707.5 SG2 466.5 THA 179.44 EL1 825.0 EL2 270.8 ALF 23.27

LAUNCH DATE NOV 26 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 235.603

RL 147.63 LAL .00 LOL 63.81 VL 24.229 GAL 15.30 AZL 86.69 MCA 90.04 SMA 109.60 ECC .42619 INC 3.3133 V1 30.180
 RP 107.53 LAP 3.31 LOP 153.85 VP 35.461 GAP -25.20 AZP 90.00 TAL 157.05 TAP 247.09 RCA 62.89 APO 156.31 V2 35.241
 RC 56.605 GL 8.02 GP -1.53 ZAL 46.15 ZAP 11.84 ETS 172.63 ZAE 138.14 ETE 195.15 ZAC 80.91 ETC 165.29 CLP 11.75

PLANETOCENTRIC CONIC

C3 93.651 VHL 9.677 DLA 14.54 RAL 13.64 RAD 6569.8 VEL 14.663 PTH 2.66 VHP 15.523 OPA -10.21 RAP 348.69 ECC 2.5413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 40 3060.29 -27.59 100.80 268.98 83.35 6 51 41 2460.3 -28.22 92.19
 90.00 21 48 20 4765.25 17.20 204.61 257.48 67.15 23 7 45 4165.2 13.96 197.43
 100.00 7 29 49 2772.82 -29.31 79.87 269.20 83.86 8 16 1 2172.8 -29.85 71.11
 100.00 23 1 53 4527.95 18.79 186.44 256.76 66.32 24 17 21 3928.0 15.43 179.26
 110.00 8 55 29 2504.73 -33.89 60.03 269.72 85.22 9 37 14 1904.7 -34.18 50.79
 110.00 23 52 41 4368.80 22.96 172.30 254.70 63.95 25 5 30 3768.8 19.27 165.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.0875 TRA -2.5875 TC3 -.2485 BAU .3176 SGT 1775.0 SGR 460.3 SG3 86.0 ST 800.1 SR 403.6 SS 708.1
 RDE -.6734 RRA .3399 RC3 -.0507 FAU .01347 RRT -.0307 RRF .0339 RTF -.8624 CRT .7034 CRS .7910 CST .9907
 FDE .7813 FRA 1.3862 FC3 -.1245 BSP 5600 SGB 1833.7 R23 -.0055 R13 .8624 LSA 1110.0 MSA 268.5 SSA 16.7
 BDE 1.2791 BRA 2.6097 BC3 .2537 FSP -226 SG1 1775.1 SG2 460.0 THA 179.51 EL1 855.0 EL2 268.4 ALF 21.79

LAUNCH DATE NOV 26 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 242.304

RL 147.63 LAL .00 LOL 63.81 VL 24.506 GAL 14.66 AZL 86.64 MCA 93.29 SMA 110.83 ECC .40895 INC 3.3552 V1 30.180
 RP 107.55 LAP 3.35 LOP 157.10 VP 35.645 GAP -24.08 AZP 90.19 TAL 156.42 TAP 249.71 RCA 65.51 APO 156.16 V2 35.235
 RC 54.864 GL 8.57 GP -1.62 ZAL 45.63 ZAP 10.55 ETS 171.34 ZAE 139.50 ETE 196.24 ZAC 82.79 ETC 165.51 CLP 10.43

PLANETOCENTRIC CONIC

C3 86.763 VHL 9.315 DLA 15.28 RAL 14.00 RAD 6569.7 VEL 14.426 PTH 2.62 VHP 14.901 OPA -9.53 RAP 350.53 ECC 2.4279
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 23 3069.67 -27.51 101.47 268.37 83.02 6 46 32 2469.7 -28.19 92.87
 90.00 21 56 30 4722.07 16.04 201.97 256.71 66.35 23 15 12 4122.1 12.71 194.88
 100.00 7 25 4 2780.46 -29.26 80.43 268.61 83.57 8 11 24 2180.5 -29.84 71.68
 100.00 23 9 30 4486.52 17.64 183.91 255.96 65.47 24 24 16 3886.5 14.18 176.82
 110.00 8 51 53 2508.80 -33.86 60.34 269.15 85.03 9 33 42 1908.8 -34.18 51.11
 110.00 0 3 6 4330.94 21.81 169.97 253.83 63.00 1 15 17 3730.9 18.02 162.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.0955 TRA -2.5889 TC3 -.2533 BAU .3007 SGT 1844.5 SGR 453.0 SG3 92.9 ST 836.4 SR 396.2 SS 737.2
 RDE -.6365 RRA .3189 RC3 -.0552 FAU .01391 RRT -.0280 RRF .0324 RTF -.8707 CRT .7050 CRS .7932 CST .9906
 FDE .8169 FRA 1.4344 FC3 -.1388 BSP 5852 SGB 1899.3 R23 -.0065 R13 .8707 LSA 1153.0 MSA 265.4 SSA 16.7
 BDE 1.2669 BRA 2.6085 BC3 .2592 FSP -247 SG1 1844.5 SG2 452.8 THA 179.58 EL1 886.7 EL2 265.1 ALF 20.37

LAUNCH DATE NOV 26 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 249.033

RL 147.63 LAL .00 LOL 63.81 VL 24.765 GAL 14.05 AZL 86.60 MCA 96.53 SMA 112.03 ECC .39244 INC 3.3974 V1 30.180
 RP 107.57 LAP 3.38 LOP 160.35 VP 35.817 GAP -23.00 AZP 90.39 TAL 155.83 TAP 252.36 RCA 68.06 APO 155.99 V2 35.229
 RC 53.197 GL 9.13 GP -1.72 ZAL 45.15 ZAP 9.27 ETS 169.58 ZAE 140.97 ETE 197.46 ZAC 84.68 ETC 165.72 CLP 9.11

PLANETOCENTRIC CONIC

C3 80.436 VHL 8.969 DLA 16.02 RAL 14.31 RAD 6569.6 VEL 14.205 PTH 2.59 VHP 14.297 DPA -8.86 RAP 352.35 ECC 2.3238
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 40 3079.49 -27.43 102.18 267.69 82.68 6 41 0 2479.5 -28.16 93.59
 90.00 22 4 41 4678.01 14.82 199.31 255.92 65.59 23 22 39 4078.0 11.40 192.30
 100.00 7 19 56 2788.41 -29.19 81.02 267.94 83.27 8 6 24 2188.4 -29.82 72.27
 100.00 23 17 7 4444.32 16.43 181.36 255.15 64.67 24 31 11 3844.3 12.88 174.36
 110.00 8 47 57 2513.00 -33.84 60.67 268.50 84.84 9 29 50 1913.0 -34.18 51.44
 110.00 0 9 30 4292.49 20.61 167.64 252.94 62.10 1 21 3 3692.5 16.71 160.68

DIFFERENTIAL CORRECTIONS

TDE-1.1030 TRA-2.5872 TC3 -.2567 BAU .2834
 RDE -.6002 RRA .2985 RC3 -.0598 FAU .01440
 FDE .8553 FRA 1.4851 FC3 -.1550 BSP 6119
 BDE 1.2557 BRA 2.6044 BC3 .2635 FSP -269

MID-COURSE EXECUTION ACCURACY

SGT 1914.6 SGR 444.8 SG3 100.4
 RRT -.0254 RRF .0312 RTF -.8786
 SGB 1965.6 R23 -.0076 R13 .8786
 SG1 1914.6 SG2 444.7 TMA 179.64

ORBIT DETERMINATION ACCURACY

ST 873.4 SR 388.0 SS 767.8
 CRT .7067 CRS .7955 CST .9904
 LSA 1197.6 MSA 261.7 SSA 16.8
 EL1 919.5 EL2 260.8 ALF 19.02

LAUNCH DATE NOV 26 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 255.788

RL 147.63 LAL .00 LOL 63.81 VL 25.008 GAL 13.47 AZL 86.56 MCA 99.77 SMA 113.18 ECC .37665 INC 3.4401 V1 30.180
 RP 107.59 LAP 3.39 LOP 163.60 VP 35.979 GAP -21.95 AZP 90.58 TAL 155.26 TAP 255.03 RCA 70.55 APO 155.81 V2 35.222
 RC 51.611 GL 9.73 GP -1.83 ZAL 44.74 ZAP 7.99 ETS 167.15 ZAE 142.58 ETE 198.83 ZAC 86.56 ETC 165.92 CLP 7.78

PLANETOCENTRIC CONIC

C3 74.630 VHL 8.639 DLA 16.77 RAL 14.57 RAD 6569.5 VEL 13.999 PTH 2.55 VHP 13.712 DPA -8.20 RAP 354.17 ECC 2.2282
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 31 3089.90 -27.34 102.93 266.94 82.31 6 35 1 2489.9 -28.12 94.35
 90.00 22 12 55 4633.02 13.53 196.63 255.12 64.89 23 30 8 4033.0 10.04 189.70
 100.00 7 14 24 2796.83 -29.12 81.63 267.20 82.95 8 1 1 2196.8 -29.79 72.89
 100.00 23 24 44 4401.31 15.16 178.80 254.32 63.92 24 38 5 3801.3 11.53 171.88
 110.00 8 43 42 2517.45 -33.81 61.01 267.80 84.64 9 25 39 1917.4 -34.18 51.79
 110.00 0 15 51 4253.49 19.34 165.31 252.04 61.25 1 26 45 3653.5 15.36 158.46

DIFFERENTIAL CORRECTIONS

TDE-1.1140 TRA-2.5860 TC3 -.2604 BAU .2677
 RDE -.5646 RRA .2789 RC3 -.0646 FAU .01491
 FDE .8976 FRA 1.5393 FC3 -.1730 BSP 6316
 BDE 1.2489 BRA 2.6010 BC3 .2683 FSP -292

MID-COURSE EXECUTION ACCURACY

SGT 1989.3 SGR 435.9 SG3 108.6
 RRT -.0222 RRF .0300 RTF -.8858
 SGB 2036.5 R23 -.0094 R13 .8859
 SG1 1989.3 SG2 435.8 TMA 179.71

ORBIT DETERMINATION ACCURACY

ST 913.7 SR 378.9 SS 800.7
 CRT .7092 CRS .7979 CST .9904
 LSA 1246.2 MSA 257.3 SSA 16.8
 EL1 955.6 EL2 255.4 ALF 17.70

LAUNCH DATE NOV 26 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 262.562

RL 147.63 LAL .00 LOL 63.81 VL 25.236 GAL 12.91 AZL 86.52 MCA 103.01 SMA 114.30 ECC .36157 INC 3.4836 V1 30.180
 RP 107.61 LAP 3.39 LOP 166.84 VP 36.130 GAP -20.94 AZP 90.79 TAL 154.74 TAP 257.75 RCA 72.97 APO 155.62 V2 35.215
 RC 50.116 GL 10.34 GP -1.95 ZAL 44.37 ZAP 6.73 ETS 163.63 ZAE 144.30 ETE 200.39 ZAC 88.43 ETC 166.11 CLP 6.44

PLANETOCENTRIC CONIC

C3 69.304 VHL 8.325 DLA 17.53 RAL 14.78 RAD 6569.3 VEL 13.808 PTH 2.52 VHP 13.143 DPA -7.54 RAP 355.98 ECC 2.1406
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 36 53 3101.09 -27.23 103.73 266.12 81.92 6 28 34 2501.1 -28.07 95.16
 90.00 22 21 15 4587.03 12.19 193.92 254.31 64.24 23 37 42 3987.0 8.62 187.06
 100.00 7 8 25 2805.87 -29.05 82.29 266.40 82.61 7 55 11 2205.9 -29.77 73.56
 100.00 23 32 24 4357.48 13.83 176.22 253.48 63.23 24 45 1 3757.5 10.13 169.38
 110.00 8 39 4 2522.26 -33.78 61.38 267.03 84.42 9 21 7 1922.3 -34.18 52.16
 110.00 0 22 10 4213.86 18.03 162.99 251.14 60.46 1 32 24 3613.9 13.96 156.24

DIFFERENTIAL CORRECTIONS

TDE-1.1232 TRA-2.5798 TC3 -.2615 BAU .2507
 RDE -.5296 RRA .2602 RC3 -.0696 FAU .01550
 FDE .9432 FRA 1.5962 FC3 -.1936 BSP 6573
 BDE 1.2418 BRA 2.5929 BC3 .2706 FSP -319

MID-COURSE EXECUTION ACCURACY

SGT 2062.6 SGR 426.1 SG3 117.6
 RRT -.0198 RRF .0295 RTF -.8929
 SGB 2106.1 R23 -.0110 R13 .8929
 SG1 2062.6 SG2 426.0 TMA 179.75

ORBIT DETERMINATION ACCURACY

ST 953.8 SR 368.9 SS 835.2
 CRT .7116 CRS .8003 CST .9903
 LSA 1296.0 MSA 252.3 SSA 16.8
 EL1 991.8 EL2 249.2 ALF 16.45

LAUNCH DATE NOV 26 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 269.353

RL 147.63 LAL .00 LOL 63.81 VL 25.449 GAL 12.38 AZL 86.47 MCA 106.25 SMA 115.37 ECC .34719 INC 3.5283 V1 30.180
 RP 107.64 LAP 3.39 LOP 170.09 VP 36.272 GAP -19.96 AZP 90.99 TAL 154.24 TAP 260.49 RCA 75.32 APO 155.43 V2 35.207
 RC 48.721 GL 10.99 GP -2.09 ZAL 44.07 ZAP 5.50 ETS 158.29 ZAE 146.14 ETE 202.17 ZAC 90.30 ETC 166.30 CLP 5.09

PLANETOCENTRIC CONIC

C3 64.424 VHL 8.026 DLA 18.30 RAL 14.95 RAD 6569.2 VEL 13.630 PTH 2.49 VHP 12.592 DPA -6.90 RAP 357.77 ECC 2.0603
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 42 3113.28 -27.11 104.60 265.25 81.50 6 21 35 2513.3 -28.01 96.05
 90.00 22 29 43 4539.97 10.78 191.18 253.49 63.66 23 45 23 3940.0 7.16 184.38
 100.00 7 1 58 2815.72 -28.96 83.01 265.54 82.24 7 48 54 2215.7 -29.73 74.29
 100.00 23 40 8 4312.77 12.45 173.62 252.63 62.60 24 52 0 3712.8 8.68 166.86
 110.00 8 34 4 2527.58 -33.74 61.80 266.21 84.18 9 16 12 1927.6 -34.18 52.58
 110.00 0 28 27 4173.67 16.67 160.67 250.23 59.71 1 38 1 3573.7 12.52 154.02

DIFFERENTIAL CORRECTIONS

TDE-1.1327 TRA-2.5707 TC3 -.2609 BAU .2338
 RDE -.4953 RRA .2425 RC3 -.0748 FAU .01615
 FDE .9931 FRA 1.6568 FC3 -.2171 BSP 6832
 BDE 1.2363 BRA 2.5821 BC3 .2714 FSP -348

MID-COURSE EXECUTION ACCURACY

SGT 2136.6 SGR 415.5 SG3 127.4
 RRT -.0182 RRF .0298 RTF -.8995
 SGB 2176.6 R23 -.0128 R13 .8996
 SG1 2136.6 SG2 415.5 TMA 179.79

ORBIT DETERMINATION ACCURACY

ST 995.1 SR 357.8 SS 871.9
 CRT .7140 CRS .8027 CST .9903
 LSA 1348.0 MSA 246.9 SSA 16.8
 EL1 1029.3 EL2 242.2 ALF 15.27

LAUNCH DATE NOV 26 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 25.649 GAL 11.87 AZL 86.43 HCA 109.49 SMA 116.40 ECC .33350 INC 3.5744 V1 30.180
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.404 GAP -19.02 AZP 91.19 TAL 153.78 TAP 263.27 RCA 77.58 APO 155.23 V2 35.198
 RC 47.437 GL 11.66 GP -2.24 ZAL 43.81 ZAP 4.35 ETS 149.67 ZAE 148.08 ETE 204.23 ZAC 92.15 ETC 166.47 CLP 3.73

PLANETOCENTRIC CONIC

C3 59.956 VHL 7.743 DLA 19.07 RAL 15.05 RAD 6569.1 VEL 13.465 PTH 2.46 VHP 12.057 DPA -6.27 RAP 359.56 ECC 1.9867
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 55 3126.72 -26.97 105.56 264.31 81.04 6 14 2 2526.7 -27.94 97.03
 90.00 22 38 22 4491.74 9.31 188.40 252.68 63.14 23 53 14 3891.7 5.63 181.66
 100.00 6 55 0 2826.58 -28.86 83.80 264.63 81.84 7 42 6 2226.6 -29.68 75.10
 100.00 23 47 59 4267.12 11.00 171.00 251.79 62.03 24 59 6 3667.1 7.17 164.30
 110.00 8 28 39 2533.55 -33.70 62.26 265.34 83.91 9 10 53 1933.6 -34.18 53.04
 110.00 0 34 44 4132.91 15.25 158.36 249.32 59.03 1 43 37 3532.9 11.04 151.80

DIFFERENTIAL CORRECTIONS

TDE-1.1404 TRA-2.5562 TC3 -.2567 BAU .2156
 RDE -.4616 RRA .2259 RC3 -.0801 FAU .01691
 FDE 1.0471 FRA 1.7205 FC3 -.2442 BSP 7158
 BDE 1.2303 BRA 2.5662 BC3 .2689 FSP -382

MID-COURSE EXECUTION ACCURACY

SGT 2208.0 SGR 404.2 SG3 138.2
 RRT -.0183 RRF .0317 RTF -.9060
 SGB 2244.7 R23 -.0145 R13 .9060
 SG1 2208.1 SG2 404.1 THA 179.80

ORBIT DETERMINATION ACCURACY

ST 1035.7 SR 345.7 SS 910.4
 CRT .7162 CRS .8049 CST .9902
 LSA 1400.9 MSA 241.0 SSA 16.8
 EL1 1066.4 EL2 234.3 ALF 14.14

LAUNCH DATE NOV 26 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 25.835 GAL 11.39 AZL 86.38 HCA 112.72 SMA 117.39 ECC .32049 INC 3.6225 V1 30.180
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.527 GAP -18.10 AZP 91.40 TAL 153.36 TAP 266.09 RCA 79.77 APO 155.02 V2 35.189
 RC 46.274 GL 12.36 GP -2.41 ZAL 43.62 ZAP 3.37 ETS 134.99 ZAE 150.13 ETE 206.63 ZAC 93.99 ETC 166.64 CLP 2.35

PLANETOCENTRIC CONIC

C3 55.870 VHL 7.475 DLA 19.86 RAL 15.11 RAD 6569.0 VEL 13.313 PTH 2.43 VHP 11.538 DPA -5.67 RAP 1.33 ECC 1.9195
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 28 3141.71 -26.81 106.63 263.32 80.53 6 5 50 2541.7 -27.85 98.11
 90.00 22 47 16 4442.21 7.77 185.58 251.88 62.69 24 1 18 3842.2 4.05 178.87
 100.00 6 47 26 2838.69 -28.74 84.68 263.67 81.39 7 34 45 2238.7 -29.63 75.99
 100.00 23 55 59 4220.45 9.50 168.35 250.95 61.52 25 6 20 3620.5 5.62 161.71
 110.00 8 22 48 2540.35 -33.65 62.78 264.42 83.60 9 5 8 1940.3 -34.17 53.58
 110.00 0 41 3 4091.56 13.79 156.05 248.42 58.41 1 49 14 3491.6 9.51 149.56

DIFFERENTIAL CORRECTIONS

TDE-1.1514 TRA-2.5419 TC3 -.2521 BAU .1989
 RDE -.4286 RRA .2104 RC3 -.0856 FAU .01772
 FDE 1.1075 FRA 1.7894 FC3 -.2745 BSP 7413
 BDE 1.2285 BRA 2.5505 BC3 .2663 FSP -418

MID-COURSE EXECUTION ACCURACY

SGT 2283.1 SGR 392.0 SG3 150.0
 RRT -.0191 RRF .0349 RTF -.9119
 SGB 2316.5 R23 -.0169 R13 .9119
 SG1 2283.1 SG2 392.0 THA 179.81

ORBIT DETERMINATION ACCURACY

ST 1079.5 SR 332.5 SS 952.2
 CRT .7187 CRS .8070 CST .9903
 LSA 1458.5 MSA 234.6 SSA 16.7
 EL1 1106.8 EL2 225.5 ALF 13.03

LAUNCH DATE NOV 26 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 26.010 GAL 10.92 AZL 86.33 HCA 115.96 SMA 118.34 ECC .30813 INC 3.6728 V1 30.180
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.641 GAP -17.22 AZP 91.61 TAL 152.98 TAP 268.93 RCA 81.88 APO 154.81 V2 35.179
 RC 45.244 GL 13.09 GP -2.61 ZAL 43.49 ZAP 2.78 ETS 110.85 ZAE 152.24 ETE 209.49 ZAC 95.82 ETC 166.80 CLP .95

PLANETOCENTRIC CONIC

C3 52.140 VHL 7.221 DLA 20.66 RAL 15.12 RAD 6568.9 VEL 13.172 PTH 2.41 VHP 11.036 DPA -5.09 RAP 3.09 ECC 1.8581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 15 3158.59 -26.62 107.82 262.28 79.96 5 56 54 2558.6 -27.73 99.34
 90.00 22 56 31 4391.16 6.17 182.68 251.09 62.31 24 9 42 3791.2 2.41 176.02
 100.00 6 39 14 2852.33 -28.59 85.67 262.66 80.89 7 26 46 2252.3 -29.56 77.00
 100.00 0 8 9 4172.66 7.94 165.67 250.13 61.09 1 17 42 3572.7 4.02 159.07
 110.00 8 16 28 2548.15 -33.59 63.38 263.47 83.25 8 58 56 1948.2 -34.16 54.18
 110.00 0 47 25 4049.60 12.28 153.73 247.53 57.85 1 54 54 3449.6 7.95 147.32

DIFFERENTIAL CORRECTIONS

TDE-1.1636 TRA-2.5248 TC3 -.2462 BAU .1830
 RDE -.3960 RRA .1963 RC3 -.0912 FAU .01861
 FDE 1.1743 FRA 1.8632 FC3 -.3089 BSP 7668
 BDE 1.2291 BRA 2.5324 BC3 .2625 FSP -457

MID-COURSE EXECUTION ACCURACY

SGT 2358.6 SGR 379.2 SG3 163.1
 RRT -.0217 RRF .0404 RTF -.9174
 SGB 2388.9 R23 -.0200 R13 .9174
 SG1 2358.6 SG2 379.1 THA 179.80

ORBIT DETERMINATION ACCURACY

ST 1124.8 SR 318.2 SS 996.9
 CRT .7211 CRS .8088 CST .9904
 LSA 1519.2 MSA 227.8 SSA 16.6
 EL1 1148.8 EL2 215.8 ALF 11.96

LAUNCH DATE NOV 26 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 26.173 GAL 10.48 AZL 86.27 HCA 119.19 SMA 119.24 ECC .29642 INC 3.7259 V1 30.180
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.747 GAP -16.36 AZP 91.82 TAL 152.63 TAP 271.82 RCA 83.90 APO 154.59 V2 35.169
 RC 44.357 GL 13.86 GP -2.83 ZAL 43.41 ZAP 2.87 ETS 81.44 ZAE 154.38 ETE 212.90 ZAC 97.62 ETC 166.97 CLP -4.47

PLANETOCENTRIC CONIC

C3 48.738 VHL 6.981 DLA 21.47 RAL 15.06 RAD 6568.8 VEL 13.042 PTH 2.38 VHP 10.549 DPA -4.55 RAP 4.83 ECC 1.8021
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 54 10 3177.80 -26.38 109.18 261.19 79.32 5 47 8 2577.8 -27.59 100.72
 90.00 23 6 12 4339.34 4.49 179.71 250.32 62.01 24 18 30 3738.3 .71 173.07
 100.00 6 30 18 2867.82 -28.42 86.79 261.60 80.33 7 18 6 2267.8 -29.46 78.14
 100.00 0 16 41 4123.56 6.31 162.93 249.32 60.72 1 25 24 3523.6 2.36 156.37
 110.00 8 9 36 2557.16 -33.52 64.07 262.48 82.85 8 52 13 1957.2 -34.14 54.89
 110.00 0 53 52 4006.98 10.73 151.41 246.65 57.35 2 0 39 3407.0 6.35 145.06

DIFFERENTIAL CORRECTIONS

TDE-1.1760 TRA-2.5042 TC3 -.2362 BAU .1663
 RDE -.3638 RRA .1836 RC3 -.0969 FAU .01959
 FDE 1.2485 FRA 1.9428 FC3 -.3479 BSP 7929
 BDE 1.2310 BRA 2.5109 BC3 .2553 FSP -500

MID-COURSE EXECUTION ACCURACY

SGT 2432.5 SGR 365.6 SG3 177.5
 RRT -.0279 RRF .0494 RTF -.9229
 SGB 2459.9 R23 -.0232 R13 .9229
 SG1 2432.6 SG2 365.5 THA 179.75

ORBIT DETERMINATION ACCURACY

ST 1170.7 SR 302.6 SS 1045.0
 CRT .7229 CRS .8099 CST .9905
 LSA 1582.7 MSA 220.7 SSA 16.5
 EL1 1191.6 EL2 205.4 ALF 10.91

LAUNCH DATE NOV 26 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 26.324 GAL 10.06 AZL 86.22 MCA 122.42 SMA 120.10 ECC .28535 INC 3.7824 V1 30.180
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.845 GAP -15.53 AZP 92.03 TAL 152.32 TAP 274.73 RCA 85.83 APO 154.38 V2 35.158
 RC 43.625 GL 14.66 GP -3.09 ZAL 43.40 ZAP 3.64 ETS 59.06 ZAE 156.52 ETE 217.04 ZAC 99.41 ETC 167.13 CLP -1.93

PLANETOCENTRIC CONIC
 C3 45.642 VHL 6.756 CLA 22.30 RAL 14.96 RAD 6568.7 VEL 12.923 PTH 2.36 VHP 10.078 DPA -4.05 RAP 6.56 ECC 1.7511
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 2 3199.91 -26.09 110.74 260.05 78.59 5 36 22 2599.9 -27.40 102.32
 90.00 23 16 29 4283.35 2.73 176.63 249.59 61.80 24 27 52 3683.3 -1.06 170.00
 100.00 6 20 32 2885.56 -28.21 88.07 260.50 79.68 7 8 38 2285.6 -29.35 79.45
 100.00 0 25 36 4072.93 4.62 160.12 248.55 60.43 1 33 29 3472.9 .64 153.59
 110.00 8 2 10 2567.61 -33.42 64.88 261.46 82.38 8 44 57 1967.6 -34.12 55.70
 110.00 1 0 28 3963.64 9.13 149.08 245.78 56.91 2 6 32 3363.6 4.71 142.78

DIFFERENTIAL CORRECTIONS
 TDE-1.1899 TRA-2.4820 TC3 -.2251 BAU .1510 SGT 2507.4 SGR 351.5 SG3 193.4 ST 1218.3 SR 285.5 SS 1096.7
 RDE -.3320 RRA .1725 RC3 -.1027 FAU .02067 RRT -.0379 RRF .0631 RTF -.9278 CRT .7237 CRS .8102 CST .9906
 FDE 1.3314 FRA 2.0284 FC3 -.3921 BSP 8182 SGB 2531.9 R23 -.0272 R13 .9278 LSA 1650.1 MSA 213.4 SSA 16.3
 BDE 1.2353 BRA 2.4880 BC3 .2474 FSP -548 SG1 2507.4 SG2 351.2 THA 179.69 EL1 1236.1 EL2 194.2 ALF 9.87

LAUNCH DATE NOV 26 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 26.466 GAL 9.66 AZL 86.16 MCA 125.65 SMA 120.92 ECC .27488 INC 3.8432 V1 30.180
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.936 GAP -14.72 AZP 92.24 TAL 152.04 TAP 277.69 RCA 87.68 APO 154.16 V2 35.147
 RC 43.055 GL 15.50 GP -3.38 ZAL 43.44 ZAP 4.81 ETS 45.83 ZAE 158.58 ETE 222.07 ZAC 101.16 ETC 167.31 CLP -3.42

PLANETOCENTRIC CONIC
 C3 42.829 VHL 6.544 CLA 23.15 RAL 14.80 RAD 6568.6 VEL 12.814 PTH 2.33 VHP 9.622 DPA -3.59 RAP 8.26 ECC 1.7049
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 39 3225.68 -25.73 112.54 258.85 77.76 5 24 25 2625.7 -27.16 104.16
 90.00 23 27 34 4225.57 .86 173.41 248.91 61.70 24 38 0 3625.6 -2.93 166.78
 100.00 6 9 47 2906.06 -27.95 89.54 259.36 78.95 6 58 13 2306.1 -29.19 80.95
 100.00 0 35 4 4020.42 2.85 157.23 247.80 60.23 1 42 4 3420.4 -1.14 150.71
 110.00 7 54 4 2579.78 -33.31 65.81 260.42 81.84 8 37 4 1979.8 -34.08 56.65
 110.00 1 7 16 3919.46 7.48 146.72 244.95 56.55 2 12 35 3319.5 3.02 140.46

DIFFERENTIAL CORRECTIONS
 TDE-1.2022 TRA-2.4536 TC3 -.2085 BAU .1346 SGT 2576.8 SGR 336.8 SG3 211.0 ST 1264.5 SR 266.9 SS 1151.7
 RDE -.3001 RRA .1633 RC3 -.1086 FAU .02193 RRT -.0552 RRF .0838 RTF -.9326 CRT .7227 CRS .8088 CST .9907
 FDE 1.4231 FRA 2.1196 FC3 -.4433 BSP 8499 SGB 2598.7 R23 -.0315 R13 .9326 LSA 1718.7 MSA 206.2 SSA 16.1
 BDE 1.2391 BRA 2.4590 BC3 .2351 FSP -603 SG1 2576.8 SG2 336.3 THA 179.58 EL1 1279.4 EL2 182.3 ALF 8.85

LAUNCH DATE NOV 26 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 26.598 GAL 9.28 AZL 86.09 MCA 128.87 SMA 121.70 ECC .26501 INC 3.9089 V1 30.180
 RP 107.86 LAP 3.04 LOP 192.75 VP 37.019 GAP -13.94 AZP 92.46 TAL 151.80 TAP 280.67 RCA 89.45 APO 153.95 V2 35.135
 RC 42.657 GL 16.38 GP -3.72 ZAL 43.55 ZAP 6.18 ETS 38.16 ZAE 160.49 ETE 228.19 ZAC 102.89 ETC 167.49 CLP -4.94

PLANETOCENTRIC CONIC
 C3 40.282 VHL 6.347 CLA 24.02 RAL 14.58 RAD 6568.5 VEL 12.714 PTH 2.31 VHP 9.181 DPA -3.20 RAP 9.95 ECC 1.6629
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 16 41 3256.20 -25.27 114.66 257.59 76.79 5 10 57 2656.2 -26.84 106.34
 90.00 23 39 47 4164.12 -1.12 169.98 248.28 61.70 24 49 11 3564.1 -4.89 163.33
 100.00 5 57 51 2930.01 -27.63 91.24 258.18 78.11 6 46 41 2330.0 -28.99 82.70
 100.00 0 45 14 3965.53 .99 154.22 247.11 60.12 1 51 20 3365.5 -3.00 147.69
 110.00 7 45 15 2594.01 -33.17 66.89 259.35 81.21 8 28 29 1994.0 -34.03 57.76
 110.00 1 14 20 3874.31 5.77 144.33 244.14 56.25 2 18 54 3274.3 1.30 138.10

DIFFERENTIAL CORRECTIONS
 TDE-1.2193 TRA-2.4259 TC3 -.1925 BAU .1207 SGT 2649.4 SGR 321.9 SG3 230.5 ST 1314.9 SR 246.5 SS 1212.4
 RDE -.2682 RRA .1561 RC3 -.1147 FAU .02325 RRT -.0795 RRF .1129 RTF -.9370 CRT .7195 CRS .8052 CST .9909
 FDE 1.5279 FRA 2.2199 FC3 -.4997 BSP 8721 SGB 2668.9 R23 -.0374 R13 .9370 LSA 1794.4 MSA 198.7 SSA 15.8
 BDE 1.2484 BRA 2.4309 BC3 .2241 FSP -662 SG1 2649.5 SG2 320.9 THA 179.44 EL1 1327.0 EL2 186.6 ALF 7.81

LAUNCH DATE NOV 26 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 26.720 GAL 8.92 AZL 86.02 MCA 132.10 SMA 122.43 ECC .25571 INC 3.9809 V1 30.180
 RP 107.89 LAP 2.95 LOP 195.97 VP 37.096 GAP -13.19 AZP 92.67 TAL 151.59 TAP 283.69 RCA 91.12 APO 153.73 V2 35.123
 RC 42.436 GL 17.30 GP -4.12 ZAL 43.72 ZAP 7.70 ETS 33.53 ZAE 162.14 ETE 235.57 ZAC 104.59 ETC 167.70 CLP -6.51

PLANETOCENTRIC CONIC
 C3 37.983 VHL 6.163 CLA 24.91 RAL 14.30 RAD 6568.5 VEL 12.623 PTH 2.29 VHP 8.755 DPA -2.87 RAP 11.62 ECC 1.6251
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 0 37 3293.18 -24.68 117.20 256.26 75.65 4 55 30 2693.2 -26.41 108.96
 90.00 23 53 37 4097.44 -3.27 166.26 247.75 61.86 25 1 55 3497.4 -7.01 159.57
 100.00 5 44 27 2958.37 -27.21 93.25 256.95 77.13 6 33 46 2358.4 -28.71 84.77
 100.00 0 56 24 3907.48 -.98 151.03 246.48 60.12 2 1 31 3307.5 -4.95 144.49
 110.00 7 35 35 2610.69 -32.99 68.16 258.27 80.48 8 19 6 2010.7 -33.95 59.06
 110.00 1 21 45 3827.93 4.01 141.89 243.37 56.02 2 25 33 3227.9 -.47 135.68

DIFFERENTIAL CORRECTIONS
 TDE-1.2332 TRA-2.3908 TC3 -.1696 BAU .1058 SGT 2713.7 SGR 307.1 SG3 252.0 ST 1362.0 SR 224.0 SS 1276.7
 RDE -.2356 RRA .1513 RC3 -.1210 FAU .02481 RRT -.1174 RRF .1553 RTF -.9413 CRT .7112 CRS .7974 CST .9911
 FDE 1.6441 FRA 2.3263 FC3 -.5654 BSP 9038 SGB 2731.0 R23 -.0436 R13 .9413 LSA 1870.3 MSA 191.7 SSA 15.3
 BDE 1.2555 BRA 2.3956 BC3 .2083 FSP -731 SG1 2713.9 SG2 304.9 THA 179.23 EL1 1371.4 EL2 156.4 ALF 6.76

LAUNCH DATE NOV 26 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 26.833 GAL 8.58 AZL 85.94 HCA 135.32 SMA 123.12 ECC .24698 INC 4.0606 V1 30.180
 RP 107.93 LAP 2.85 LOP 199.20 VP 37.166 GAP -12.45 AZP 92.89 TAL 151.42 TAP 286.74 RCA 92.71 APO 153.53 V2 35.111
 RC 42.394 GL 18.27 GP -4.58 ZAL 43.96 ZAP 9.32 ETS 30.66 ZAE 163.43 ETE 244.22 ZAC 106.26 ETC 167.93 CLP -8.12

PLANETOCENTRIC CONIC
 C3 35.917 VHL 5.993 CLA 25.84 RAL 13.95 RAD 6568.4 VEL 12.541 PTH 2.27 VHP 8.344 DPA -2.63 RAP 13.27 ECC 1.5911
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 41 30 3339.62 -23.85 120.35 254.82 74.27 4 37 9 2739.6 -25.78 112.22
 90.00 0 13 56 4022.73 -5.65 162.06 247.35 62.21 1 20 59 3422.7 -9.33 155.31
 100.00 5 29 9 2992.58 -26.67 95.65 255.65 75.98 6 19 1 2392.6 -28.34 87.24
 100.00 1 8 58 3845.01 -3.10 147.60 245.94 60.25 2 13 3 3245.0 -7.03 141.03
 110.00 7 24 54 2630.38 -32.76 69.65 257.16 79.63 8 8 45 2030.4 -33.84 60.58
 110.00 1 29 42 3779.98 2.19 139.39 242.65 55.88 2 32 42 3180.0 -2.31 133.18

DIFFERENTIAL CORRECTIONS
 TDE-1.2489 TRA-2.3528 TC3 -.1438 BAU .0923 SGT 2775.1 SGR 293.1 SG3 275.9 ST 1409.8 SR 199.0 SS 1346.6
 RDE -.2021 RRA .1493 RC3 -.1277 FAU .02653 RRT -.1714 RRF .2144 RTF -.9453 CRT .6950 CRS .7825 CST .9913
 FDE 1.7761 FRA 2.4416 FC3 -.6396 BSP 9348 SGB 2790.5 R23 -.0514 R13 .9454 LSA 1951.0 MSA 184.9 SSA 14.8
 BDE 1.2651 BRA 2.3575 BC3 .1923 FSP -808 SG1 2775.5 SG2 288.7 THA 178.95 EL1 1416.7 EL2 142.4 ALF 5.66

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 26 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 26.939 GAL 8.26 AZL 85.85 HCA 138.54 SMA 123.77 ECC .23879 INC 4.1498 V1 30.180
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.230 GAP -11.74 AZP 93.11 TAL 151.28 TAP 289.82 RCA 94.21 APO 153.32 V2 35.099
 RC 42.534 GL 19.30 GP -5.13 ZAL 44.27 ZAP 11.05 ETS 28.90 ZAE 164.23 ETE 253.87 ZAC 107.89 ETC 168.20 CLP -9.79

PLANETOCENTRIC CONIC
 C3 34.072 VHL 5.837 CLA 26.80 RAL 13.54 RAD 6568.3 VEL 12.468 PTH 2.26 VHP 7.947 DPA -2.50 RAP 14.91 ECC 1.5607
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 20 3401.98 -22.64 124.52 253.19 72.52 4 14 2 2802.0 -24.82 116.53
 90.00 0 34 49 3933.75 -8.45 157.02 247.17 62.87 1 40 23 3333.7 -12.02 150.16
 100.00 5 11 9 3035.05 -25.94 98.59 254.26 74.60 6 1 44 2435.0 -27.80 90.28
 100.00 1 23 41 3775.91 -5.42 143.79 245.53 60.56 2 26 37 3175.9 -9.30 137.15
 110.00 7 13 0 2653.79 -32.46 71.41 256.03 78.63 7 57 14 2053.8 -33.68 62.39
 110.00 1 38 20 3729.93 .27 136.78 242.00 55.82 2 40 29 3129.9 -4.21 130.56

DIFFERENTIAL CORRECTIONS
 TDE-1.2558 TRA-2.3014 TC3 -.1036 BAU .0774 SGT 2817.7 SGR 281.1 SG3 301.9 ST 1447.8 SR 171.1 SS 1418.6
 RDE -.1668 RRA .1507 RC3 -.1348 FAU .02871 RRT -.2506 RRF .2972 RTF -.9494 CRT .6622 CRS .7537 CST .9913
 FDE 1.9207 FRA 2.5602 FC3 -.7294 BSP 9887 SGB 2831.7 R23 -.0589 R13 .9496 LSA 2026.2 MSA 179.2 SSA 14.0
 BDE 1.2669 BRA 2.3063 BC3 .1700 FSP -905 SG1 2818.6 SG2 272.0 THA 178.55 EL1 1452.2 EL2 127.9 ALF 4.51

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 26 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.036 GAL 7.95 AZL 85.75 HCA 141.75 SMA 124.38 ECC .23111 INC 4.2511 V1 30.180
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.289 GAP -11.05 AZP 93.34 TAL 151.18 TAP 292.93 RCA 95.63 APO 153.12 V2 35.086
 RC 42.853 GL 20.40 GP -5.79 ZAL 44.65 ZAP 12.89 ETS 27.91 ZAE 164.48 ETE 263.88 ZAC 109.47 ETC 168.53 CLP -11.53

PLANETOCENTRIC CONIC
 C3 32.436 VHL 5.695 CLA 27.81 RAL 13.06 RAD 6568.3 VEL 12.402 PTH 2.24 VHP 7.566 DPA -2.49 RAP 16.52 ECC 1.5338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 41 16 3502.19 -20.44 131.05 251.09 69.97 3 39 38 2902.2 -22.99 123.30
 90.00 1 7 0 3808.73 -12.24 149.79 247.49 64.27 2 10 29 3208.7 -15.61 142.73
 100.00 4 48 59 3090.47 -24.88 102.37 252.71 72.88 5 40 29 2490.5 -26.99 94.20
 100.00 1 41 58 3695.68 -8.08 139.32 245.31 61.12 2 43 34 3095.7 -11.88 132.58
 110.00 6 59 31 2681.96 -32.06 73.51 254.87 77.45 7 44 13 2082.0 -33.45 64.56
 110.00 1 47 56 3676.95 -1.75 134.01 241.42 55.86 2 49 13 3077.0 -6.22 127.78

DIFFERENTIAL CORRECTIONS
 TDE-1.2308 TRA-2.2124 TC3 -.0174 BAU .0623 SGT 2804.5 SGR 273.2 SG3 328.4 ST 1450.2 SR 140.2 SS 1481.3
 RDE -.1288 RRA .1560 RC3 -.1425 FAU .03216 RRT -.3692 RRF .4117 RTF -.9546 CRT .5916 CRS .6939 CST .9909
 FDE 2.0633 FRA 2.6641 FC3 -.8583 BSP 11235 SGB 2817.8 R23 -.0606 R13 .9548 LSA 2070.3 MSA 175.9 SSA 12.7
 BDE 1.2376 BRA 2.2179 BC3 .1436 FSP -1061 SG1 2806.3 SG2 253.7 THA 177.92 EL1 1452.6 EL2 112.8 ALF 3.29

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 26 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.126 GAL 7.67 AZL 85.63 HCA 144.97 SMA 124.95 ECC .22398 INC 4.3677 V1 30.180
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.342 GAP -10.38 AZP 93.58 TAL 151.09 TAP 296.06 RCA 96.96 APO 152.94 V2 35.073
 RC 43.347 GL 21.57 GP -6.59 ZAL 45.11 ZAP 14.84 ETS 27.51 ZAE 164.17 ETE 273.42 ZAC 111.02 ETC 168.93 CLP -13.33

PLANETOCENTRIC CONIC
 C3 31.024 VHL 5.570 CLA 28.87 RAL 12.50 RAD 6568.2 VEL 12.345 PTH 2.23 VHP 7.201 DPA -2.64 RAP 18.14 ECC 1.5106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.12 1 3 8 3802.14 -17.20 151.66 248.36 66.45 2 6 30 3202.1 -20.24 144.27
 95.88 2 40 43 3486.37 -17.19 128.51 248.36 66.44 3 38 49 2886.4 -20.23 121.12
 100.00 4 18 47 3171.28 -23.15 107.75 250.86 70.55 5 11 38 2571.3 -25.59 99.80
 100.00 2 7 44 3592.46 -11.42 133.48 245.50 62.19 3 7 37 2992.5 -15.06 126.57
 110.00 6 44 0 2716.58 -31.52 76.07 253.68 76.02 7 29 17 2116.6 -33.11 67.21
 110.00 1 59 1 3619.93 -3.93 131.03 240.98 56.02 2 59 21 3019.9 -8.36 124.75

DIFFERENTIAL CORRECTIONS
 TDE-1.3463 TRA-2.2586 TC3 -.1035 BAU .0764 SGT 2995.1 SGR 273.6 SG3 367.6 ST 1597.4 SR 107.5 SS 1617.1
 RDE -.0876 RRA .1657 RC3 -.1524 FAU .03160 RRT -.4539 RRF .5226 RTF -.9545 CRT .4565 CRS .5599 CST .9926
 FDE 2.3268 FRA 2.8751 FC3 -.8819 BSP 9249 SGB 3007.6 R23 -.0971 R13 .9548 LSA 2269.5 MSA 166.0 SSA 13.0
 BDE 1.3492 BRA 2.2647 BC3 .1843 FSP -1039 SG1 2997.7 SG2 243.6 THA 177.61 EL1 1598.1 EL2 95.6 ALF 1.77

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 26 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 27.209 GAL 7.40 AZL 85.50 HCA 148.18 SMA 125.48 ECC .21731 INC 4.5047 V1 30.180
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.390 GAP -9.73 AZP 93.83 TAL 151.04 TAP 299.22 RCA 98.21 APO 152.75 V2 35.060
 RC 44.011 GL 22.84 GP -7.57 ZAL 45.66 ZAP 16.95 ETS 27.59 ZAE 163.34 ETE 281.67 ZAC 112.52 ETC 169.43 CLP -15.21

PLANETOCENTRIC CONIC

C3 29.808 VHL 5.460 CLA 30.01 RAL 11.84 RAD 6568.2 VEL 12.296 PTH 2.21 VHP 6.851 DPA -2.99 RAP 19.74 ECC 1.4906
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.62 0 25 9 3905.57 -18.12 159.74 247.35 65.66 1 30 15 3305.6 -21.25 152.34
 100.38 3 13 27 3362.87 -18.11 119.81 247.34 65.65 4 9 30 2762.9 -21.24 112.41
 79.62 0 25 9 3905.57 -18.12 159.74 247.35 65.66 1 30 15 3305.6 -21.25 152.34
 100.38 3 13 27 3362.87 -18.11 119.81 247.34 65.65 4 9 30 2762.9 -21.24 112.41
 110.00 6 25 30 2760.16 -30.76 79.24 252.40 74.29 7 11 30 2160.2 -32.60 70.50
 110.00 2 12 17 3556.29 -6.34 127.68 240.69 56.34 3 11 33 2956.3 -10.72 121.33

DIFFERENTIAL CORRECTIONS

TDE-1.3628 TRA-2.1986 TC3 -.0618 BAU .0696
 RDE -.0401 RRA .1819 RC3 -.1633 FAU .03429
 FDE 2.5541 FRA 3.0258 FC3 -.9958 BSP 9688
 BDE 1.3634 BRA 2.2061 BC3 .1746 FSP -1165

MID-COURSE EXECUTION ACCURACY

SGT 3024.8 SGR 286.6 SG3 403.5
 RRT -.5941 RRF .6643 RTF -.9578
 SGB 3038.4 R23 -.1144 R13 .9583
 SG1 3029.7 SG2 230.2 THA 176.76

ORBIT DETERMINATION ACCURACY

ST 1638.4 SR 78.6 SS 1715.1
 CRT .0572 CRS .1753 CST .9927
 LSA 2367.7 MSA 162.5 SSA 11.8
 EL1 1638.4 EL2 78.4 ALF .16

LAUNCH DATE NOV 26 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 27.286 GAL 7.15 AZL 85.33 HCA 151.39 SMA 125.98 ECC .21112 INC 4.6687 V1 30.180
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.433 GAP -9.10 AZP 94.10 TAL 151.02 TAP 302.41 RCA 99.38 APO 152.57 V2 35.047
 RC 44.838 GL 24.24 GP -8.79 ZAL 46.31 ZAP 19.24 ETS 28.12 ZAE 162.06 ETE 288.21 ZAC 113.98 ETC 170.09 CLP -17.18

PLANETOCENTRIC CONIC

C3 28.810 VHL 5.367 CLA 31.25 RAL 11.08 RAD 6568.2 VEL 12.255 PTH 2.20 VHP 6.519 DPA -3.61 RAP 21.37 ECC 1.4741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.21 23 53 14 3976.06 -19.07 165.48 246.37 64.77 24 59 30 3376.1 -22.31 158.08
 103.79 3 35 19 3275.34 -19.05 113.71 246.36 64.75 4 29 55 2675.3 -22.29 106.31
 76.21 23 53 14 3976.06 -19.07 165.48 246.37 64.77 24 59 30 3376.1 -22.31 158.08
 103.79 3 35 19 3275.34 -19.05 113.71 246.36 64.75 4 29 55 2675.3 -22.29 106.31
 110.00 6 2 21 2817.82 -29.62 83.34 250.94 72.10 6 49 19 2217.8 -31.78 74.80
 110.00 2 29 18 3481.57 -9.14 123.71 240.67 56.92 3 27 20 2881.6 -13.43 117.24

DIFFERENTIAL CORRECTIONS

TDE-1.3898 TRA-2.1405 TC3 -.0282 BAU .0689
 RDE .0160 RRA .2058 RC3 -.1767 FAU .03698
 FDE 2.8244 FRA 3.1882 FC3 -1.1111 BSP 9950
 BDE 1.3899 BRA 2.1504 BC3 .1789 FSP -1294

MID-COURSE EXECUTION ACCURACY

SGT 3056.9 SGR 319.8 SG3 443.6
 RRT -.7224 RRF .7921 RTF -.9606
 SGB 3073.6 R23 -.1367 R13 .9613
 SG1 3065.7 SG2 220.5 THA 175.66

ORBIT DETERMINATION ACCURACY

ST 1686.4 SR 79.2 SS 1826.6
 CRT -.6530 CRS -.5603 CST .9929
 LSA 2482.1 MSA 159.8 SSA 10.6
 EL1 1687.2 EL2 59.9 ALF 178.24

LAUNCH DATE NOV 26 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 27.356 GAL 6.92 AZL 85.13 HCA 154.60 SMA 126.44 ECC .20538 INC 4.8700 V1 30.180
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.472 GAP -8.48 AZP 94.40 TAL 151.01 TAP 305.61 RCA 100.47 APO 152.41 V2 35.033
 RC 45.818 GL 25.81 GP -10.35 ZAL 47.09 ZAP 21.76 ETS 29.11 ZAE 160.39 ETE 292.89 ZAC 115.39 ETC 170.94 CLP -19.25

PLANETOCENTRIC CONIC

C3 28.050 VHL 5.296 CLA 32.61 RAL 10.17 RAD 6568.1 VEL 12.224 PTH 2.20 VHP 6.207 DPA -4.57 RAP 23.04 ECC 1.4616
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.10 23 28 33 4035.22 -20.04 170.48 245.43 63.72 24 35 48 3435.2 -23.41 163.08
 106.90 3 52 46 3202.83 -20.03 108.70 245.42 63.71 4 46 8 2602.8 -23.40 101.31
 73.10 23 28 33 4035.22 -20.04 170.48 245.43 63.72 24 35 48 3435.2 -23.41 163.08
 106.90 3 52 46 3202.83 -20.03 108.70 245.42 63.71 4 46 8 2602.8 -23.40 101.31
 110.00 5 30 20 2902.11 -27.72 89.16 249.08 69.14 6 18 42 2302.1 -30.29 80.92
 110.00 2 54 5 3383.94 -12.72 118.41 241.18 58.00 3 50 29 2783.9 -16.86 111.74

DIFFERENTIAL CORRECTIONS

TDE-1.4278 TRA-2.0830 TC3 -.0034 BAU .0725
 RDE .0856 RRA .2400 RC3 -.1934 FAU .03954
 FDE 3.1475 FRA 3.3593 FC3 -1.2205 BSP 10066
 BDE 1.4304 BRA 2.0968 BC3 .1934 FSP -1424

MID-COURSE EXECUTION ACCURACY

SGT 3089.2 SGR 381.5 SG3 487.8
 RRT -.8204 RRF .8867 RTF -.9630
 SGB 3112.7 R23 -.1621 R13 .9642
 SG1 3105.1 SG2 217.0 THA 174.19

ORBIT DETERMINATION ACCURACY

ST 1740.7 SR 131.0 SS 1953.8
 CRT -.9526 CRS -.9119 CST .9932
 LSA 2615.2 MSA 158.3 SSA 9.3
 EL1 1745.2 EL2 39.7 ALF 175.90

LAUNCH DATE NOV 26 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 27.420 GAL 6.70 AZL 84.87 HCA 157.80 SMA 126.87 ECC .20008 INC 5.1252 V1 30.180
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.507 GAP -7.89 AZP 94.75 TAL 151.03 TAP 308.82 RCA 101.48 APO 152.25 V2 35.020
 RC 46.944 GL 27.60 GP -12.38 ZAL 48.05 ZAP 24.59 ETS 30.62 ZAE 158.31 ETE 295.76 ZAC 116.76 ETC 172.11 CLP -21.41

PLANETOCENTRIC CONIC

C3 27.570 VHL 5.251 CLA 34.16 RAL 9.07 RAD 6568.1 VEL 12.204 PTH 2.19 VHP 5.920 DPA -6.01 RAP 24.80 ECC 1.4537
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.03 23 5 0 4089.88 -21.06 175.26 244.53 62.45 24 13 10 3489.9 -24.57 167.88
 109.97 4 7 33 3139.58 -21.04 104.36 244.52 62.44 4 59 53 2539.6 -24.56 96.98
 70.03 23 5 0 4089.88 -21.06 175.26 244.53 62.45 24 13 10 3489.9 -24.57 167.88
 109.97 4 7 33 3139.58 -21.04 104.36 244.52 62.44 4 59 53 2539.6 -24.56 96.98
 110.00 4 16 18 3112.91 -21.87 102.73 244.98 63.05 5 8 11 2512.9 -25.30 95.26
 110.00 3 59 21 3164.55 -20.24 105.86 244.07 61.85 4 52 6 2564.5 -23.84 98.56

DIFFERENTIAL CORRECTIONS

TDE-1.4695 TRA-2.0151 TC3 .0252 BAU .0798
 RDE .1756 RRA .2876 RC3 -.2151 FAU .04237
 FDE 3.5223 FRA 3.5179 FC3 -1.3303 BSP 10274
 BDE 1.4800 BRA 2.0355 BC3 .2166 FSP -1574

MID-COURSE EXECUTION ACCURACY

SGT 3103.9 SGR 481.2 SG3 534.3
 RRT -.8845 RRF .9447 RTF -.9653
 SGB 3141.0 R23 -.1855 R13 .9671
 SG1 3133.1 SG2 222.5 THA 172.15

ORBIT DETERMINATION ACCURACY

ST 1790.8 SR 223.0 SS 2091.0
 CRT -.9968 CRS -.9821 CST .9935
 LSA 2757.5 MSA 158.4 SSA 7.9
 EL1 1804.5 EL2 17.7 ALF 172.92

LAUNCH DATE NOV 26 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 27.479 GAL 6.50 AZL 84.54 MCA 161.00 SMA 127.26 ECC .19521 INC 5.4610 V1 30.180
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.537 GAP -7.30 AZP 95.17 TAL 151.06 TAP 312.05 RCA 102.42 APO 152.10 V2 35.007
 RC 48.205 GL 29.73 GP -15.10 ZAL 49.24 ZAP 27.85 ETS 32.74 ZAE 155.68 ETE 296.95 ZAC 118.08 ETC 173.72 CLP -23.68

DISTANCE 384.553

PLANETOCENTRIC CONIC

C3 27.459 VHL 5.240 DLA 35.98 RAL 7.70 RAD 6568.1 VEL 12.200 PTH 2.19 VHP 5.666 DPA -8.13 RAP 26.74 ECC 1.4519
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.81 22 41 2 4144.62 -22.11 180.19 243.68 60.86 23 50 7 3544.6 -25.82 172.85
 113.19 4 20 34 3082.83 -22.10 100.49 243.68 60.86 5 11 57 2482.8 -25.81 93.15
 66.81 22 41 2 4144.62 -22.11 180.19 243.68 60.86 23 50 7 3544.6 -25.82 172.85
 113.19 4 20 34 3082.83 -22.10 100.49 243.68 60.86 5 11 57 2482.8 -25.81 93.15
 66.81 22 41 2 4144.62 -22.11 180.19 243.68 60.86 23 50 7 3544.6 -25.82 172.85
 113.19 4 20 34 3082.83 -22.10 100.49 243.68 60.86 5 11 57 2482.8 -25.81 93.15

DIFFERENTIAL CORRECTIONS

TDE-1.5283 TRA-1.9435 TC3 .0447 BAU .0906
 RDE .2999 RRA .3537 RC3 -.2427 FAU .04477
 FDE 3.9687 FRA 3.6531 FC3-1.4116 BSP 10417
 BDE 1.5574 BRA 1.9755 BC3 .2468 FSP -1722

MID-COURSE EXECUTION ACCURACY

SGT 3113.0 SGR 632.9 SG3 582.0
 RRT -.9211 RRF .9752 RTF -.9672
 SGB 3176.6 R23 -.2026 R13 .9702
 SG1 3167.4 SG2 242.2 THA 169.33

ORBIT DETERMINATION ACCURACY

ST 1847.4 SR 357.9 SS 2244.8
 CRT -.9994 CRS -.9965 CST .9937
 LSA 2924.8 MSA 160.3 SSA 6.5
 EL1 1881.7 EL2 12.3 ALF 169.04

LAUNCH DATE NOV 26 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 27.533 GAL 6.32 AZL 84.07 MCA 164.20 SMA 127.62 ECC .19075 INC 5.9266 V1 30.180
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.564 GAP -6.74 AZP 95.70 TAL 151.10 TAP 315.29 RCA 103.28 APO 151.96 V2 34.994
 RC 49.590 GL 32.34 GP -18.88 ZAL 50.78 ZAP 31.78 ETS 35.63 ZAE 152.21 ETE 296.62 ZAC 119.35 ETC 176.06 CLP -26.05

DISTANCE 391.206

PLANETOCENTRIC CONIC

C3 27.894 VHL 5.281 DLA 38.18 RAL 5.90 RAD 6568.1 VEL 12.218 PTH 2.20 VHP 5.463 DPA -11.26 RAP 29.05 ECC 1.4591
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.24 22 15 14 4203.27 -23.20 185.63 242.90 58.78 23 25 18 3603.3 -27.15 178.36
 116.76 4 32 1 3032.01 -23.18 97.05 242.89 58.77 5 22 33 2432.0 -27.14 89.78
 63.24 22 15 14 4203.27 -23.20 185.63 242.90 58.78 23 25 18 3603.3 -27.15 178.36
 116.76 4 32 1 3032.01 -23.18 97.05 242.89 58.77 5 22 33 2432.0 -27.14 89.78
 63.24 22 15 14 4203.27 -23.20 185.63 242.90 58.78 23 25 18 3603.3 -27.15 178.36
 116.76 4 32 1 3032.01 -23.18 97.05 242.89 58.77 5 22 33 2432.0 -27.14 89.78

DIFFERENTIAL CORRECTIONS

TDE-1.6121 TRA-1.8638 TC3 .0565 BAU .1055
 RDE .4827 RRA .4446 RC3 -.2772 FAU .04637
 FDE 4.4886 FRA 3.7192 FC3-1.4393 BSP 10587
 BDE 1.6829 BRA 1.9161 BC3 .2829 FSP -1858

MID-COURSE EXECUTION ACCURACY

SGT 3111.1 SGR 858.2 SG3 625.3
 RRT -.9408 RRF .9894 RTF -.9687
 SGB 3227.3 R23 -.2080 R13 .9738
 SG1 3215.0 SG2 281.6 THA 165.34

ORBIT DETERMINATION ACCURACY

ST 1911.6 SR 555.2 SS 2410.8
 CRT -.9969 CRS -.9995 CST .9940
 LSA 3122.1 MSA 164.1 SSA 5.0
 EL1 1990.1 EL2 42.0 ALF 163.85

LAUNCH DATE NOV 26 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 27.581 GAL 6.15 AZL 83.38 MCA 167.39 SMA 127.95 ECC .18668 INC 6.6204 V1 30.180
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.588 GAP -6.19 AZP 96.46 TAL 151.14 TAP 318.53 RCA 104.06 APO 151.83 V2 34.980
 RC 51.091 GL 35.75 GP -24.38 ZAL 52.90 ZAP 36.80 ETS 39.54 ZAE 147.25 ETE 295.04 ZAC 120.50 ETC 179.61 CLP -28.46

DISTANCE 397.835

PLANETOCENTRIC CONIC

C3 29.287 VHL 5.412 DLA 40.99 RAL 3.36 RAD 6568.2 VEL 12.274 PTH 2.21 VHP 5.353 DPA -15.97 RAP 32.06 ECC 1.4820
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.03 21 45 26 4271.33 -24.24 192.09 242.17 55.87 22 56 37 3671.3 -28.54 184.97
 120.97 4 41 33 2988.30 -24.23 94.11 242.16 55.86 5 31 22 2388.3 -28.53 86.99
 59.03 21 45 26 4271.33 -24.24 192.09 242.17 55.87 22 56 37 3671.3 -28.54 184.97
 120.97 4 41 33 2988.30 -24.23 94.11 242.16 55.86 5 31 22 2388.3 -28.53 86.99
 59.03 21 45 26 4271.33 -24.24 192.09 242.17 55.87 22 56 37 3671.3 -28.54 184.97
 120.97 4 41 33 2988.30 -24.23 94.11 242.16 55.86 5 31 22 2388.3 -28.53 86.99

DIFFERENTIAL CORRECTIONS

TDE-1.7478 TRA-1.7746 TC3 .0572 BAU .1256
 RDE .7756 RRA .5673 RC3 -.3156 FAU .04589
 FDE 5.0680 FRA 3.6331 FC3-1.3566 BSP 10866
 BDE 1.9122 BRA 1.8631 BC3 .3208 FSP -1947

MID-COURSE EXECUTION ACCURACY

SGT 3102.3 SGR 1193.4 SG3 651.8
 RRT -.9512 RRF .9955 RTF -.9701
 SGB 3323.9 R23 -.1980 R13 .9785
 SG1 3305.9 SG2 345.7 THA 159.67

ORBIT DETERMINATION ACCURACY

ST 1995.4 SR 855.2 SS 2580.4
 CRT -.9949 CRS -1.0000 CST .9944
 LSA 3367.9 MSA 170.0 SSA 3.6
 EL1 2169.5 EL2 79.5 ALF 156.87

LAUNCH DATE NOV 26 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 63.81 VL 27.625 GAL 5.99 AZL 82.23 MCA 170.58 SMA 128.25 ECC .18300 INC 7.7740 V1 30.180
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.608 GAP -5.65 AZP 97.67 TAL 151.19 TAP 321.77 RCA 104.78 APO 151.72 V2 34.967
 RC 52.697 GL 40.48 GP -32.79 ZAL 56.06 ZAP 43.74 ETS 44.83 ZAE 139.55 ETE 292.81 ZAC 121.28 ETC 185.36 CLP -30.75

DISTANCE 404.441

PLANETOCENTRIC CONIC

C3 32.767 VHL 5.724 DLA 44.77 RAL 359.37 RAD 6568.3 VEL 12.415 PTH 2.24 VHP 5.448 DPA -23.26 RAP 36.60 ECC 1.5393
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.75 21 7 54 4357.88 -24.97 200.35 241.39 51.55 22 20 32 3757.9 -29.77 193.55
 126.25 4 47 14 2958.15 -24.95 92.02 241.37 51.54 5 36 32 2358.2 -29.75 85.23
 53.75 21 7 54 4357.88 -24.97 200.35 241.39 51.55 22 20 32 3757.9 -29.77 193.55
 126.25 4 47 14 2958.15 -24.95 92.02 241.37 51.54 5 36 32 2358.2 -29.75 85.23
 53.75 21 7 54 4357.88 -24.97 200.35 241.39 51.55 22 20 32 3757.9 -29.77 193.55
 126.25 4 47 14 2958.15 -24.95 92.02 241.37 51.54 5 36 32 2358.2 -29.75 85.23

DIFFERENTIAL CORRECTIONS

TDE-2.0071 TRA-1.6739 TC3 .0407 BAU .1511
 RDE 1.2951 RRA .7183 RC3 -.3424 FAU .04071
 FDE 5.5984 FRA 3.2238 FC3-1.0757 BSP 11431
 BDE 2.3886 BRA 1.8215 BC3 .3449 FSP -1904

MID-COURSE EXECUTION ACCURACY

SGT 3099.5 SGR 1691.0 SG3 632.4
 RRT -.9563 RRF .9977 RTF -.9715
 SGB 3530.8 R23 -.1700 R13 .9849
 SG1 3503.6 SG2 437.5 THA 151.97

ORBIT DETERMINATION ACCURACY

ST 2130.0 SR 1331.4 SS 2714.9
 CRT -.9941 CRS -1.0000 CST .9950
 LSA 3694.4 MSA 177.8 SSA 2.3
 EL1 2508.9 EL2 122.9 ALF 148.06

LAUNCH DATE NOV 26 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 411.016

RL 147.63 LAL .00 LOL 63.81 VL 27.665 GAL 5.86 AZL 79.91 MCA 173.76 SMA 128.52 ECC .17969 INC10.0885 V1 30.180
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.625 GAP -5.13 AZP 100.03 TAL 151.24 TAP 325.00 RCA 105.43 APO 151.62 V2 34.954
 RC 54.398 GL 47.63 GP -46.34 ZAL 61.29 ZAP 54.21 ETS 52.32 ZAE 126.75 ETE 291.70 ZAC 120.91 ETC 195.53 CLP -32.11

PLANETOCENTRIC CONIC

C3 42.575 VHL 6.525 DLA 50.03 RAL 351.97 RAD 6568.6 VEL 12.804 PTH 2.33 VHP 6.147 DPA -34.70 RAP 45.09 ECC 1.7007
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.86 20 14 14 4484.26 -24.19 211.75 239.86 44.77 21 28 59 3884.3 -29.73 205.68
 133.14 4 41 50 2964.00 -24.18 91.82 239.84 44.76 5 31 14 2364.0 -29.72 85.76
 46.86 20 14 14 4484.26 -24.19 211.75 239.86 44.77 21 28 59 3884.3 -29.73 205.68
 133.14 4 41 50 2964.00 -24.18 91.82 239.84 44.76 5 31 14 2364.0 -29.72 85.76
 46.86 20 14 14 4484.26 -24.19 211.75 239.86 44.77 21 28 59 3884.3 -29.73 205.68
 133.14 4 41 50 2964.00 -24.18 91.82 239.84 44.76 5 31 14 2364.0 -29.72 85.76

DIFFERENTIAL CORRECTIONS

TDE -2.6634 TRA -1.5597 TC3 -.0020 BAU .1701
 RDE 2.3342 RRA .8199 RC3 -.2989 FAU .02594
 FDE 5.6669 FRA 2.2195 FC3 -.5275 BSP 12624
 BDE 3.5415 BRA 1.7621 BC3 .2989 FSP -1557

MID-COURSE EXECUTION ACCURACY

SGT 3164.6 SGR 2368.4 SG3 507.0
 RRT -.9582 RRF .9978 RTF -.9748
 SGB 3952.7 R23 -.1212 R13 .9925
 SG1 3914.6 SG2 547.7 THA 143.53

ORBIT DETERMINATION ACCURACY

ST 2424.6 SR 2077.1 SS 2686.8
 CRT -.9945 CRS -.9998 CST .9963
 LSA 4168.6 MSA 185.9 SSA 1.2
 EL1 3188.4 EL2 164.8 ALF 139.44

LAUNCH DATE NOV 26 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 417.533

RL 147.63 LAL .00 LOL 63.81 VL 27.701 GAL 5.74 AZL 72.89 MCA 176.90 SMA 128.77 ECC .17679 INC17.1096 V1 30.180
 RP 108.45 LAP .91 LOP 240.85 VP 37.640 GAP -4.64 AZP 107.09 TAL 151.26 TAP 328.16 RCA 106.00 APO 151.53 V2 34.942
 RC 56.186 GL 58.74 GP -68.17 ZAL 71.03 ZAP 70.22 ETS 71.51 ZAE 104.89 ETE 303.73 ZAC 117.65 ETC 221.87 CLP -24.52

PLANETOCENTRIC CONIC

C3 89.980 VHL 9.486 DLA 56.02 RAL 334.99 RAD 6569.8 VEL 14.537 PTH 2.64 VHP 9.652 DPA -50.39 RAP 67.31 ECC 2.4808
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.40 18 44 20 4713.35 -16.54 226.93 233.46 35.66 20 2 53 4113.3 -22.98 222.29
 140.60 3 56 18 3094.60 -16.53 96.28 233.44 35.66 4 47 53 2494.6 -22.96 91.65
 39.40 18 44 20 4713.35 -16.54 226.93 233.46 35.66 20 2 53 4113.3 -22.98 222.29
 140.60 3 56 18 3094.60 -16.53 96.28 233.44 35.66 4 47 53 2494.6 -22.96 91.65
 39.40 18 44 20 4713.35 -16.54 226.93 233.46 35.66 20 2 53 4113.3 -22.98 222.29
 140.60 3 56 18 3094.60 -16.53 96.28 233.44 35.66 4 47 53 2494.6 -22.96 91.65

DIFFERENTIAL CORRECTIONS

TDE -5.9444 TRA -1.3942 TC3 -.1118 BAU .1553
 RDE 3.9469 RRA .2601 RC3 -.0646 FAU -.00206
 FDE 4.3726 FRA .6729 FC3 .0198 BSP 14378
 BDE 7.1354 BRA 1.4182 BC3 .1291 FSP -758

MID-COURSE EXECUTION ACCURACY

SGT 3899.7 SGR 2403.6 SG3 236.7
 RRT -.9556 RRF .9865 RTF -.9909
 SGB 4580.9 R23 -.0539 R13 .9985
 SG1 4540.4 SG2 608.2 THA 148.88

ORBIT DETERMINATION ACCURACY

ST 3618.9 SR 2385.5 SS 2209.9
 CRT -.9960 CRS -.9989 CST .9991
 LSA 4861.9 MSA 181.7 SSA .7
 EL1 4330.7 EL2 179.1 ALF 146.65

LAUNCH DATE NOV 26 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 424.876

RL 147.63 LAL .00 LOL 63.81 VL 27.732 GAL 5.49 AZL 163.00 MCA 180.76 SMA 128.99 ECC .17279 INC72.9871 V1 30.180
 RP 108.49 LAP .73 LOP 244.03 VP 37.651 GAP -3.94 AZP 17.00 TAL 151.85 TAP 332.61 RCA 106.70 APO 151.28 V2 34.929
 RC 58.051 GL -49.81 GP 54.34 ZAL 85.08 ZAP 86.42 ETS 187.02 ZAE 69.05 ETE 319.51 ZAC 93.53 ETC 32.57 CLP 83.85

PLANETOCENTRIC CONIC

C31194.200 VHL 34.557 DLA -51.49 RAL 10.70 RAD 6573.1 VEL 36.270 PTH 3.53 VHP 44.918 DPA 63.25 RAP 187.88 ECC20.6535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.01 9 24 57 2342.44 -.73 64.87 281.26 141.49 10 3 59 1742.4 5.52 60.29
 134.99 18 0 35 794.30 -.72 302.09 281.28 141.49 18 13 49 194.3 5.54 297.52
 45.01 9 24 57 2342.44 -.73 64.87 281.26 141.49 10 3 59 1742.4 5.52 60.29
 134.99 18 0 35 794.30 -.72 302.09 281.28 141.49 18 13 49 194.3 5.54 297.52
 45.01 9 24 57 2342.44 -.73 64.87 281.26 141.49 10 3 59 1742.4 5.52 60.29
 134.99 18 0 35 794.30 -.72 302.09 281.28 141.49 18 13 49 194.3 5.54 297.52

DIFFERENTIAL CORRECTIONS

TDE 6.0160 TRA -4.4453 TC3 -.1524 BAU 5.1249
 RDE -4.5864 RRA11.4753 RC3 .2825 FAU -.09257
 FDE -1.3106 FRA 2.6692 FC3 .0671 BSP 3401
 BDE 7.5649 BRA12.3062 BC3 .3210 FSP -65

MID-COURSE EXECUTION ACCURACY

SGT 1872.3 SGR 3705.4 SG3 75.7
 RRT -.9272 RRF .9990 RTF -.9429
 SGB 4151.5 R23 -.0300 R13 .9995
 SG1 4103.0 SG2 633.3 THA 115.76

ORBIT DETERMINATION ACCURACY

ST 1059.3 SR 1192.5 SS 1182.8
 CRT -.8597 CRS -.9948 CST .9073
 LSA 1937.2 MSA 436.4 SSA .7
 EL1 1538.9 EL2 419.3 ALF 131.07

LAUNCH DATE NOV 26 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 430.811

RL 147.63 LAL .00 LOL 63.81 VL 27.760 GAL 5.50 AZL 99.06 MCA 183.45 SMA 129.18 ECC .17146 INC 9.0593 V1 30.180
 RP 108.53 LAP .54 LOP 247.21 VP 37.661 GAP -3.60 AZP 80.96 TAL 151.48 TAP 334.93 RCA 107.03 APO 151.33 V2 34.917
 RC 59.985 GL -46.38 GP 68.74 ZAL 60.35 ZAP 72.68 ETS 312.83 ZAE 113.90 ETE 73.90 ZAC 88.99 ETC 146.85 CLP -34.85

PLANETOCENTRIC CONIC

C3 36.137 VHL 6.011 DLA -34.89 RAL 37.60 RAD 6568.4 VEL 12.550 PTH 2.27 VHP 8.658 DPA 65.77 RAP 331.17 ECC 1.5947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.71 12 52 49 1538.00 19.21 12.46 277.60 119.70 13 18 27 938.0 23.01 5.33
 111.29 18 7 21 5827.44 19.23 275.70 277.61 119.69 19 44 29 5227.4 23.03 268.56
 68.71 12 52 49 1538.00 19.21 12.46 277.60 119.70 13 18 27 938.0 23.01 5.33
 111.29 18 7 21 5827.44 19.23 275.70 277.61 119.69 19 44 29 5227.4 23.03 268.56
 68.71 12 52 49 1538.00 19.21 12.46 277.60 119.70 13 18 27 938.0 23.01 5.33
 111.29 18 7 21 5827.44 19.23 275.70 277.61 119.69 19 44 29 5227.4 23.03 268.56

DIFFERENTIAL CORRECTIONS

TDE -.8262 TRA -2.2405 TC3 .0000 BAU .2356
 RDE -.2848 RRA -3.3233 RC3 .4877 FAU .01626
 FDE .3949 FRA 2.8184 FC3 -.3896 BSP 14396
 BDE .8739 BRA 4.0080 BC3 .4877 FSP -876

MID-COURSE EXECUTION ACCURACY

SGT 2719.8 SGR 3915.3 SG3 287.7
 RRT .9641 RRF -.9990 RTF -.9742
 SGB 4767.3 R23 -.0449 R13 -.9989
 SG1 4729.7 SG2 597.7 THA 55.56

ORBIT DETERMINATION ACCURACY

ST 1109.1 SR 1190.0 SS 787.1
 CRT .8475 CRS .9908 CST .9115
 LSA 1748.6 MSA 456.0 SSA 1.3
 EL1 1563.8 EL2 448.0 ALF 47.38

LAUNCH DATE NOV 26 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 437.271

RL 147.63 LAL .00 LOL 63.81 VL 27.785 GAL 5.43 AZL 93.10 MCA 186.59 SMA 129.36 ECC .16951 INC 3.0996 V1 30.180
 RP 108.57 LAP .36 LOP 250.39 VP 37.668 GAP -3.13 AZP 86.92 TAL 151.48 TAP 338.07 RCA 107.43 APO 151.28 V2 34.906
 RC 61.981 GL -20.99 GP 51.61 ZAL 45.22 ZAP 65.18 ETS 327.35 ZAE 131.32 ETE 79.61 ZAC 94.91 ETC 152.71 CLP -47.47

PLANETOCENTRIC CONIC

C3 17.435 VHL 4.176 OLA -10.65 RAL 28.85 RAD 6567.7 VEL 11.782 PTH 2.08 VHP 5.395 DPA 51.50 RAP 351.92 ECC 1.2869
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 17 37 1845.46 -9.24 19.32 246.85 116.89 10 48 22 1245.5 -5.56 12.58
 90.00 19 32 45 5162.85 25.60 230.66 251.21 77.47 20 58 48 4562.9 23.62 222.55
 100.00 11 33 39 1600.16 -10.27 .74 246.30 118.23 12 0 19 1000.2 -6.41 354.07
 100.00 20 59 24 4883.39 26.72 209.81 250.91 76.08 22 20 48 4283.4 24.55 201.69
 110.00 12 29 51 1424.16 -12.95 345.80 244.71 121.91 12 53 35 824.2 -8.64 339.36
 110.00 22 19 42 4632.15 29.71 189.77 249.95 72.26 23 36 54 4032.1 27.00 181.63

DIFFERENTIAL CORRECTIONS

TDE -.5247 TRA-1.4172 TC3 .0718 BAU .2887
 RDE -.4916 RRA-2.4728 RC3 1.2364 FAU .05194
 FDE 1.1400 FRA 5.0061 FC3-2.5791 BSP 13541
 BDE .7190 BRA 2.8501 BC3 1.2385 FSP -2033

MID-COURSE EXECUTION ACCURACY

SGT 2106.4 SGR 3666.2 SG3 646.2
 RRT .9555 RRF -.9996 RTF -.9575
 SGB 4228.3 R23 -.0645 R13 -.9976
 SG1 4193.3 SG2 543.2 THA 60.69

ORBIT DETERMINATION ACCURACY

ST 933.1 SR 1236.5 SS 1219.7
 CRT .9539 CRS .9980 CST .9710
 LSA 1958.1 MSA 230.1 SSA 4.1
 EL1 1532.5 EL2 226.0 ALF 53.32

LAUNCH DATE NOV 26 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 443.738

RL 147.63 LAL .00 LOL 63.81 VL 27.807 GAL 5.37 AZL 90.99 MCA 189.76 SMA 129.51 ECC .16782 INC .9898 V1 30.180
 RP 108.60 LAP .17 LOP 253.57 VP 37.673 GAP -2.67 AZP 89.02 TAL 151.48 TAP 341.24 RCA 107.77 APO 151.24 V2 34.894
 RC 64.032 GL -7.11 GP 41.17 ZAL 41.13 ZAP 63.33 ETS 336.35 ZAE 141.68 ETE 81.87 ZAC 98.27 ETC 155.21 CLP -53.40

PLANETOCENTRIC CONIC

C3 14.954 VHL 3.867 OLA 2.41 RAL 24.08 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 4.352 DPA 41.96 RAP 358.70 ECC 1.2461
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 19 18 2221.77 -19.74 41.94 241.37 110.72 8 56 20 1621.8 -16.75 34.54
 90.00 20 53 1 4716.64 15.89 201.64 240.45 66.25 22 11 38 4116.6 12.55 194.56
 100.00 9 41 46 1955.79 -20.70 21.98 240.98 112.06 10 14 22 1355.8 -17.52 14.62
 100.00 22 13 14 4457.86 16.82 182.17 240.01 64.92 23 27 32 3857.9 13.30 175.15
 110.00 10 52 35 1734.14 -23.24 3.93 239.76 115.80 11 21 29 1134.1 -19.58 356.71
 110.00 23 18 55 4252.24 19.31 165.24 238.68 61.23 24 29 47 3652.2 15.32 158.39

DIFFERENTIAL CORRECTIONS

TDE -.4545 TRA-1.1064 TC3 -.0026 BAU .2595
 RDE -.6016 RRA-2.0080 RC3 1.2978 FAU .07852
 FDE 2.2889 FRA 6.7971 FC3-4.5458 BSP 11981
 BDE .7540 BRA 2.2927 BC3 1.2978 FSP -3011

MID-COURSE EXECUTION ACCURACY

SGT 1773.6 SGR 3266.4 SG3 967.8
 RRT .9466 RRF -.9995 RTF -.9471
 SGB 3716.9 R23 -.0693 R13 -.9971
 SG1 3682.1 SG2 507.0 THA 62.22

ORBIT DETERMINATION ACCURACY

ST 834.1 SR 1262.3 SS 1708.9
 CRT .9877 CRS .9983 CST .9950
 LSA 2279.8 MSA 109.8 SSA 9.2
 EL1 1509.1 EL2 109.2 ALF 56.67

LAUNCH DATE NOV 26 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 450.190

RL 147.63 LAL .00 LOL 63.81 VL 27.825 GAL 5.32 AZL 89.91 MCA 192.93 SMA 129.64 ECC .16640 INC .0807 V1 30.180
 RP 108.64 LAP -.02 LOP 256.74 VP 37.677 GAP -2.21 AZP 90.09 TAL 151.46 TAP 344.40 RCA 108.07 APO 151.21 V2 34.883
 RC 66.131 GL .66 GP 34.45 ZAL 40.56 ZAP 64.61 ETS 343.09 ZAE 148.34 ETE 85.43 ZAC 99.73 ETC 157.25 CLP -58.68

PLANETOCENTRIC CONIC

C3 14.473 VHL 3.804 OLA 9.65 RAL 21.26 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.838 DPA 35.36 RAP 1.37 ECC 1.2382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 12 30 2443.95 -24.39 56.55 240.17 104.85 7 53 14 1844.0 -22.12 48.62
 90.00 21 37 19 4479.89 8.95 187.73 236.65 63.02 22 51 59 3879.9 5.26 180.99
 100.00 8 38 36 2166.29 -25.43 35.81 239.85 106.27 9 14 42 1566.3 -22.95 27.89
 100.00 22 53 55 4232.79 9.90 169.05 236.14 61.65 24 4 28 3632.8 6.03 162.39
 110.00 9 57 38 1918.95 -28.18 16.02 238.84 110.20 10 29 37 1318.9 -25.17 8.14
 110.00 23 51 22 4052.90 12.40 153.91 234.66 57.89 24 58 55 3452.9 8.07 147.49

DIFFERENTIAL CORRECTIONS

TDE -.3806 TRA -.8545 TC3 -.1204 BAU .2338
 RDE -.6365 RRA-1.7172 RC3 1.2025 FAU .09874
 FDE 3.4470 FRA 8.1744 FC3-5.9062 BSP 10598
 BDE .7416 BRA 1.9180 BC3 1.2085 FSP -3818

MID-COURSE EXECUTION ACCURACY

SGT 1428.6 SGR 2939.0 SG3 1231.3
 RRT .9265 RRF -.9991 RTF -.9266
 SGB 3267.8 R23 -.0674 R13 -.9969
 SG1 3231.0 SG2 489.1 THA 65.15

ORBIT DETERMINATION ACCURACY

ST 694.3 SR 1240.5 SS 2123.4
 CRT .9958 CRS .9981 CST .9994
 LSA 2554.3 MSA 72.7 SSA 15.0
 EL1 1420.5 EL2 55.6 ALF 60.82

LAUNCH DATE NOV 26 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 456.624

RL 147.63 LAL .00 LOL 63.81 VL 27.841 GAL 5.28 AZL 89.25 MCA 196.11 SMA 129.75 ECC .16525 INC .7512 V1 30.180
 RP 108.67 LAP -.21 LOP 259.91 VP 37.679 GAP -1.76 AZP 90.72 TAL 151.43 TAP 347.53 RCA 108.31 APO 151.19 V2 34.873
 RC 68.274 GL 5.49 GP 29.81 ZAL 40.85 ZAP 67.62 ETS 348.23 ZAE 152.82 ETE 91.12 ZAC 99.97 ETC 159.03 CLP -63.97

PLANETOCENTRIC CONIC

C3 14.435 VHL 3.799 OLA 14.13 RAL 19.43 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 3.524 DPA 30.43 RAP 2.19 ECC 1.2376
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 27 27 2594.38 -26.61 67.01 239.96 100.06 7 10 42 1994.4 -24.95 58.73
 90.00 22 7 44 4328.32 4.17 179.15 235.06 61.97 23 19 52 3728.3 .39 172.51
 100.00 7 56 18 2307.84 -27.75 45.68 239.71 101.57 8 34 46 1707.8 -25.88 37.39
 100.00 23 21 34 4090.09 5.19 161.07 234.50 60.52 24 29 44 3490.1 1.23 154.53
 110.00 9 21 22 2041.69 -30.76 24.64 238.88 105.70 9 55 23 1441.7 -28.30 16.30
 110.00 0 16 56 3929.01 7.83 147.23 232.87 56.62 1 22 25 3329.0 3.39 140.96

DIFFERENTIAL CORRECTIONS

TDE -.2792 TRA -.6074 TC3 -.2613 BAU .2184
 RDE -.6338 RRA-1.5146 RC3 1.1011 FAU .11520
 FDE 4.5038 FRA 9.2605 FC3-6.9087 BSP 9384
 BDE .6926 BRA 1.6319 BC3 1.1317 FSP -4519

MID-COURSE EXECUTION ACCURACY

SGT 1053.1 SGR 2676.1 SG3 1448.5
 RRT .8733 RRF -.9986 RTF -.8734
 SGB 2875.9 R23 -.0579 R13 -.9969
 SG1 2834.8 SG2 484.3 THA 70.44

ORBIT DETERMINATION ACCURACY

ST 507.6 SR 1188.9 SS 2451.6
 CRT .9985 CRS .9975 CST .9992
 LSA 2770.5 MSA 75.2 SSA 15.9
 EL1 1292.5 EL2 25.7 ALF 66.90

LAUNCH DATE NOV 26 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 463.036

RL 147.63 LAL .00 LOL 63.81 VL 27.853 GAL 5.26 AZL 88.80 MCA 199.28 SMA 129.84 ECC .16437 INC 1.1980 V1 30.180
 RP 108.70 LAP -.40 LOP 263.08 VP 37.679 GAP -1.32 AZP 91.13 TAL 151.37 TAP 350.65 RCA 108.50 APO 151.18 V2 34.862
 RC 70.456 GL 8.75 GP 26.39 ZAL 41.30 ZAP 71.66 ETS 352.22 ZAE 155.75 ETE 99.14 ZAC 99.38 ETC 160.59 CLP -69.43

PLANETOCENTRIC CONIC

C3 14.532 VHL 3.812 DLA 17.16 RAL 18.16 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 3.312 OPA 26.47 RAP 1.98 ECC 1.2392
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 54 3 2705.72 -27.68 74.97 240.02 96.21 6 39 9 2105.7 -26.53 66.50
 90.00 22 31 0 4219.95 .68 173.09 234.39 61.69 23 41 20 3619.9 -3.11 166.46
 100.00 7 25 16 2411.58 -28.95 53.16 239.85 97.81 8 5 28 1811.6 -27.56 44.63
 100.00 23 42 29 3989.32 1.79 155.52 233.77 60.16 24 48 58 3389.3 -2.19 149.00
 110.00 8 55 14 2130.08 -32.21 31.12 239.18 102.12 9 30 44 1530.1 -30.21 22.48
 110.00 0 32 56 3843.59 4.61 142.72 232.02 56.09 1 36 59 3243.6 .13 136.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1499 TRA -.3531 TC3 -.4233 BAU .2125
 RDE -.6141 RRA-1.3629 RC3 1.0085 FAU .12832
 FDE 5.4519 FRA10.1389 FC3-7.6444 BSP .8254
 BDE .6322 BRA 1.4079 BC3 1.0938 FSP -5109

SGT 680.7 SGR 2457.5 SG3 1629.0
 RRT .6877 RRF -.9979 RTF -.6875
 SGB 2550.0 R23 -.0367 R13 -.9972
 SG1 2503.5 SG2 485.1 THA 78.79

ST 280.4 SR 1125.3 SS 2716.1
 CRT .9981 CRS .9968 CST .9927
 LSA 2952.0 MSA 87.4 SSA 14.8
 EL1 1159.5 EL2 16.8 ALF 76.03

LAUNCH DATE NOV 26 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 469.428

RL 147.63 LAL .00 LOL 63.81 VL 27.864 GAL 5.25 AZL 88.48 MCA 202.45 SMA 129.91 ECC .16375 INC 1.5230 V1 30.180
 RP 108.73 LAP -.58 LOP 266.25 VP 37.678 GAP -.88 AZP 91.41 TAL 151.28 TAP 353.73 RCA 108.64 APO 151.18 V2 34.853
 RC 72.672 GL 11.10 GP 23.73 ZAL 41.72 ZAP 76.35 ETS 355.39 ZAE 157.35 ETE 109.17 ZAC 98.22 ETC 161.97 CLP -75.06

PLANETOCENTRIC CONIC

C3 14.685 VHL 3.832 DLA 19.34 RAL 17.26 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 3.165 OPA 23.08 RAP 1.14 ECC 1.2417
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 27 47 2793.53 -28.17 81.35 240.18 93.05 6 14 20 2193.5 -27.45 72.76
 90.00 22 50 4 4136.78 -2.00 168.45 234.18 61.75 23 59 1 3536.8 -5.76 161.79
 100.00 7 1 10 2492.44 -29.55 59.09 240.07 94.75 7 42 43 1892.4 -28.58 50.42
 100.00 0 3 19 3913.11 -.79 151.34 233.51 60.12 1 8 32 3313.1 -4.76 144.80
 110.00 8 35 23 2197.64 -33.06 36.20 239.57 99.22 9 12 0 1597.6 -31.44 27.36
 110.00 0 45 35 3780.67 2.21 139.42 231.63 55.88 1 48 35 3180.7 -2.28 133.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .0046 TRA -.0888 TC3 -.6033 BAU .2168
 RDE -.5828 RRA-1.2390 RC3 .9251 FAU .13845
 FDE 6.2659 FRA10.8215 FC3-8.1620 BSP .7275
 BDE .5828 BRA 1.2422 BC3 1.1044 FSP -5592

SGT 483.4 SGR 2261.9 SG3 1772.6
 RRT -.0526 RRF -.9969 RTF .0548
 SGB 2313.0 R23 .0001 R13 -.9969
 SG1 2262.1 SG2 482.7 THA 90.67

ST 45.0 SR 1052.0 SS 2922.7
 CRT .3932 CRS .9957 CST .3128
 LSA 3105.0 MSA 99.7 SSA 14.0
 EL1 1052.1 EL2 41.3 ALF 89.04

LAUNCH DATE NOV 26 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 475.797

RL 147.63 LAL .00 LOL 63.81 VL 27.872 GAL 5.25 AZL 88.23 MCA 205.62 SMA 129.97 ECC .16338 INC 1.7709 V1 30.180
 RP 108.76 LAP -.77 LOP 269.42 VP 37.675 GAP -.45 AZP 91.60 TAL 151.16 TAP 356.79 RCA 108.73 APO 151.20 V2 34.844
 RC 74.919 GL 12.85 GP 21.53 ZAL 42.06 ZAP 81.47 ETS 357.96 ZAE 157.69 ETE 120.25 ZAC 96.67 ETC 163.17 CLP -80.82

PLANETOCENTRIC CONIC

C3 14.872 VHL 3.856 DLA 20.99 RAL 16.61 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 3.064 OPA 20.06 RAP 359.88 ECC 1.2448
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 16 2866.09 -28.31 86.65 240.39 90.39 5 54 2 2266.1 -27.96 78.01
 90.00 23 6 24 4069.88 -4.15 164.71 234.25 61.96 24 14 14 3469.9 -7.87 158.01
 100.00 6 41 41 2558.38 -29.82 63.98 240.35 92.19 7 24 20 1958.4 -29.20 55.23
 100.00 0 17 35 3852.82 -2.83 148.03 233.52 60.23 1 21 48 3252.8 -6.77 141.46
 110.00 8 19 44 2251.65 -33.58 40.34 240.00 96.83 8 57 16 1651.7 -32.27 31.35
 110.00 0 56 2 3732.31 .36 136.90 231.53 55.82 1 58 14 3132.3 -4.12 130.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .1810 TRA .1845 TC3 -.7921 BAU .2312
 RDE -.5413 RRA-1.1294 RC3 .8516 FAU .14626
 FDE 6.9105 FRA11.2878 FC3-8.5142 BSP .6624
 BDE .5707 BRA 1.1444 BC3 1.1630 FSP -5995

SGT 729.2 SGR 2075.6 SG3 1875.4
 RRT -.7566 RRF -.9955 RTF .7611
 SGB 2200.0 R23 .0474 R13 -.9944
 SG1 2151.4 SG2 460.0 THA 105.62

ST 283.5 SR 968.4 SS 3070.1
 CRT -.9618 CRS .9942 CST -.9850
 LSA 3229.8 MSA 110.7 SSA 13.5
 EL1 1006.3 EL2 74.7 ALF 105.82

LAUNCH DATE NOV 26 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 482.145

RL 147.63 LAL .00 LOL 63.81 VL 27.878 GAL 5.27 AZL 88.03 MCA 208.79 SMA 130.01 ECC .16326 INC 1.9672 V1 30.180
 RP 108.78 LAP -.95 LOP 272.59 VP 37.672 GAP -.03 AZP 91.72 TAL 151.01 TAP 359.81 RCA 108.78 APO 151.23 V2 34.835
 RC 77.194 GL 14.20 GP 19.65 ZAL 42.31 ZAP 86.84 ETS .06 ZAE 156.90 ETE 131.07 ZAC 94.87 ETC 164.19 CLP -86.64

PLANETOCENTRIC CONIC

C3 15.090 VHL 3.885 DLA 22.27 RAL 16.15 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 3.003 OPA 17.28 RAP 358.40 ECC 1.2484
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 9 2928.22 -28.26 91.20 240.65 88.12 5 36 57 2328.2 -28.22 82.53
 90.00 23 20 51 4014.27 -5.92 161.59 234.52 62.26 24 27 46 3414.3 -9.59 154.83
 100.00 6 25 35 2614.02 -29.89 68.11 240.68 90.02 7 9 9 2014.0 -29.57 59.32
 100.00 0 30 2 3803.70 -4.49 145.32 233.73 60.42 1 33 25 3203.7 -8.40 138.71
 110.00 8 7 8 2296.33 -33.88 43.79 240.49 94.81 8 45 24 1696.3 -32.85 34.70
 110.00 1 4 58 3694.15 -1.10 134.91 231.62 55.83 2 6 33 3094.2 -5.57 128.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .3729 TRA .4623 TC3 -.9874 BAU .2539
 RDE -.4930 RRA-1.0298 RC3 .7805 FAU .15088
 FDE 7.3813 FRA11.5455 FC3-8.6558 BSP .6397
 BDE .6181 BRA 1.1288 BC3 1.2586 FSP -6273

SGT 1197.5 SGR 1894.8 SG3 1936.5
 RRT -.9143 RRF -.9936 RTF .9205
 SGB 2241.5 R23 .0839 R13 -.9905
 SG1 2202.3 SG2 417.4 THA 121.27

ST 593.2 SR 878.3 SS 3167.3
 CRT -.9772 CRS .9921 CST -.9960
 LSA 3337.8 MSA 120.2 SSA 13.1
 EL1 1054.7 EL2 104.8 ALF 123.80

LAUNCH DATE NOV 26 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.882 GAL 5.31 AZL 87.87 HCA 211.96 SMA 130.04 ECC .16338 INC 2.1276 V1 30.180
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.667 GAP .39 AZP 91.81 TAL 150.83 TAP 2.80 RCA 108.79 APO 151.28 V2 34.827
 RC 79.493 GL 15.26 GP 17.98 ZAL 42.47 ZAP 92.33 ETS 1.78 ZAE 155.19 ETE 140.57 ZAC 92.95 ETC 165.03 CLP -92.45

PLANETOCENTRIC CONIC
 C3 15.340 VHL 3.917 CLA 23.30 RAL 15.84 RAD 6567.6 VEL 11.693 PTH 2.06 VHP 2.976 DPA 14.70 RAP 356.80 ECC 1.2525
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 36 2982.86 -28.07 95.18 240.97 86.13 5 22 19 2382.9 -28.31 86.53
 90.00 23 33 58 3967.01 -7.41 158.91 234.93 62.59 24 40 5 3367.0 -11.03 152.10
 100.00 6 12 3 2662.18 -29.84 71.69 241.07 88.13 6 56 25 2062.2 -29.78 62.89
 100.00 0 41 8 3762.92 -5.86 143.07 234.09 60.63 1 43 51 3162.9 -9.72 136.42
 110.00 7 56 52 2334.28 -34.06 46.74 241.02 93.07 8 35 46 1734.3 -33.26 37.59
 110.00 1 12 49 3663.58 -2.26 133.31 231.86 55.88 2 13 52 3063.6 -6.73 127.07

DIFFERENTIAL CORRECTIONS
 TDE .5742 TRA .7396 TC3-1.1823 BAU .2831
 RDE -.4389 RRA -.9366 RC3 .7128 FAU .15266
 FDE 7.6603 FRA11.5884 FC3-8.6154 BSP 6701
 BDE .7227 BRA 1.1934 BC3 1.3805 FSP -6435

MID-COURSE EXECUTION ACCURACY
 SGT 1717.8 SGR 1717.4 SG3 1954.6
 RRT -.9537 RRF -.9909 RTF .9625
 SGB 2409.0 R23 -.0933 R13 -.9882
 SG1 2400.8 SG2 369.4 THA 135.01

ORBIT DETERMINATION ACCURACY
 ST 911.7 SR 782.8 SS 3214.2
 CRT -.9779 CRS .9888 CST -.9981
 LSA 3429.1 MSA 128.7 SSA 12.8
 EL1 1195.2 EL2 124.8 ALF 139.45

LAUNCH DATE NOV 26 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.883 GAL 5.35 AZL 87.74 HCA 215.13 SMA 130.05 ECC .16374 INC 2.2618 V1 30.180
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.662 GAP .81 AZP 91.85 TAL 150.62 TAP 5.75 RCA 108.76 APO 151.34 V2 34.820
 RC 81.813 GL 16.09 GP 16.47 ZAL 42.55 ZAP 97.81 ETS 3.19 ZAE 152.85 ETE 148.35 ZAC 91.03 ETC 165.70 CLP -98.15

PLANETOCENTRIC CONIC
 C3 15.625 VHL 3.953 CLA 24.14 RAL 15.66 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 2.980 DPA 12.31 RAP 355.21 ECC 1.2572
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 19 4 3031.92 -27.80 98.75 241.35 84.36 5 9 36 2431.9 -28.29 90.12
 90.00 23 46 5 3926.24 -8.68 156.59 235.48 62.94 24 51 31 3326.2 -12.24 149.72
 100.00 6 0 34 2704.69 -29.70 74.85 241.52 86.48 6 45 39 2104.7 -29.88 66.04
 100.00 0 51 12 3728.70 -6.99 141.17 234.57 60.86 1 53 21 3128.7 -10.83 134.47
 110.00 7 48 27 2367.19 -34.15 49.30 241.61 91.55 8 27 54 1767.2 -33.56 40.11
 110.00 1 19 49 3638.97 -3.20 132.03 232.23 55.95 2 20 28 3039.0 -7.65 125.76

DIFFERENTIAL CORRECTIONS
 TDE .7792 TRA 1.0121 TC3-1.3702 BAU .3165
 RDE -.3817 RRA -.8497 RC3 .6464 FAU .15125
 FDE 7.7612 FRA11.4423 FC3-8.3800 BSP 7463
 BDE .8677 BRA 1.3215 BC3 1.5150 FSP -6466

MID-COURSE EXECUTION ACCURACY
 SGT 2243.5 SGR 1545.6 SG3 1933.4
 RRT -.9656 RRF -.9871 RTF .9780
 SGB 2724.4 R23 .0820 R13 -.9883
 SG1 2703.9 SG2 333.6 THA 145.77

ORBIT DETERMINATION ACCURACY
 ST 1228.6 SR 685.8 SS 3219.0
 CRT -.9741 CRS .9838 CST -.9988
 LSA 3510.4 MSA 136.3 SSA 12.6
 EL1 1400.4 EL2 136.1 ALF 151.17

LAUNCH DATE NOV 26 1968

FLIGHT TIME 186.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.884 GAL 5.41 AZL 87.62 HCA 218.30 SMA 130.05 ECC .16434 INC 2.3763 V1 30.180
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.655 GAP 1.22 AZP 91.87 TAL 150.37 TAP 8.67 RCA 108.68 APO 151.42 V2 34.813
 RC 84.153 GL 16.75 GP 15.09 ZAL 42.56 ZAP 103.19 ETS 4.35 ZAE 150.14 ETE 154.45 ZAC 89.19 ETC 166.20 CLP -103.67

PLANETOCENTRIC CONIC
 C3 15.949 VHL 3.994 CLA 24.83 RAL 15.60 RAD 6567.6 VEL 11.719 PTH 2.06 VHP 3.012 DPA 10.11 RAP 353.70 ECC 1.2625
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 7 13 3076.70 -27.45 101.98 241.79 82.77 4 58 30 2476.7 -28.17 93.39
 90.00 0 1 20 3890.74 -9.78 154.55 236.13 63.29 1 6 10 3290.7 -13.28 147.63
 100.00 5 50 47 2742.77 -29.51 77.66 242.04 85.01 6 36 30 2142.8 -29.89 68.88
 100.00 1 0 26 3699.90 -7.95 139.56 235.15 61.09 2 2 6 3099.9 -11.74 132.83
 110.00 7 41 33 2396.22 -34.18 51.57 242.27 90.21 8 21 30 1796.2 -33.78 42.35
 110.00 1 26 10 3619.21 -3.96 130.99 232.70 56.02 2 26 29 3019.2 -8.39 124.71

DIFFERENTIAL CORRECTIONS
 TDE .9841 TRA 1.2776 TC3-1.5430 BAU .3515
 RDE -.3243 RRA -.7703 RC3 .5805 FAU .14642
 FDE 7.7160 FRA11.1512 FC3-7.9480 BSP 8513
 BDE 1.0361 BRA 1.4919 BC3 1.6486 FSP -6348

MID-COURSE EXECUTION ACCURACY
 SGT 2755.3 SGR 1383.5 SG3 1880.3
 RRT -.9674 RRF -.9817 RTF .9849
 SGB 3083.1 R23 .0644 R13 -.9894
 SG1 3067.0 SG2 314.8 THA 153.79

ORBIT DETERMINATION ACCURACY
 ST 1536.8 SR 591.7 SS 3193.0
 CRT -.9663 CRS .9759 CST -.9992
 LSA 3589.8 MSA 143.0 SSA 12.5
 EL1 1640.6 EL2 142.6 ALF 159.43

LAUNCH DATE NOV 26 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.882 GAL 5.49 AZL 87.52 HCA 221.46 SMA 130.04 ECC .16517 INC 2.4758 V1 30.180
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.649 GAP 1.63 AZP 91.86 TAL 150.09 TAP 11.55 RCA 108.56 APO 151.52 V2 34.807
 RC 86.508 GL 17.27 GP 13.83 ZAL 42.49 ZAP 108.38 ETS 5.29 ZAE 147.26 ETE 159.17 ZAC 87.52 ETC 166.55 CLP -108.95

PLANETOCENTRIC CONIC
 C3 16.314 VHL 4.039 CLA 25.41 RAL 15.63 RAD 6567.7 VEL 11.734 PTH 2.07 VHP 3.070 DPA 8.12 RAP 352.34 ECC 1.2685
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 47 3118.06 -27.06 104.94 242.31 81.34 4 48 45 2518.1 -27.98 96.40
 90.00 0 12 0 3859.70 -10.72 152.76 236.88 63.63 1 16 20 3259.7 -14.18 145.79
 100.00 5 42 29 2777.26 -29.28 80.20 242.64 83.69 6 28 46 2177.3 -29.84 71.44
 100.00 1 8 59 3675.73 -8.74 138.20 235.84 61.30 2 10 14 3075.7 -12.50 131.43
 110.00 7 35 58 2422.18 -34.17 53.60 243.01 89.01 8 16 20 1822.2 -33.93 44.36
 110.00 1 31 59 3603.57 -4.55 130.17 233.27 56.08 2 32 2 3003.6 -8.97 123.88

DIFFERENTIAL CORRECTIONS
 TDE 1.1822 TRA 1.5311 TC3-1.6992 BAU .3877
 RDE -.2663 RRA -.6966 RC3 .5215 FAU .14016
 FDE 7.5221 FRA10.7210 FC3-7.4380 BSP 9755
 BDE 1.2118 BRA 1.6821 BC3 1.7775 FSP -6165

MID-COURSE EXECUTION ACCURACY
 SGT 3237.0 SGR 1231.7 SG3 1798.8
 RRT -.9637 RRF -.9742 RTF .9886
 SGB 3463.4 R23 .0476 R13 -.9908
 SG1 3449.6 SG2 308.4 THA 159.69

ORBIT DETERMINATION ACCURACY
 ST 1826.0 SR 500.6 SS 3131.5
 CRT -.9526 CRS .9629 CST -.9993
 LSA 3656.3 MSA 149.3 SSA 12.3
 EL1 1887.6 EL2 147.3 ALF 165.27

LAUNCH DATE NOV 26 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 513.545

RL 147.63 LAL .00 LOL 63.81 VL 27.879 GAL 5.58 AZL 87.44 HCA 224.63 SMA 130.02 ECC .16624 INC 2.5637 V1 30.180
 RP 108.89 LAP -1.80 LOP 288.40 VP 37.641 GAP 2.04 AZP 91.83 TAL 149.77 TAP 14.40 RCA 108.40 APO 151.63 V2 34.802
 RC 88.877 GL 17.67 GP 12.68 ZAL 42.35 ZAP 113.33 ETS 6.05 ZAE 144.38 ETE 162.78 ZAC 86.06 ETC 166.78 CLP-113.95

PLANETOCENTRIC CONIC

C3 16.726 VHL 4.090 DLA 25.89 RAL 15.74 RAD 6567.7 VEL 11.752 PTH 2.07 VHP 3.151 DPA 6.33 RAP 351.17 ECC 1.2753
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 47 35 3156.58 -26.64 107.68 242.91 80.03 4 40 12 2556.6 -27.75 99.19
 90.00 0 22 7 3832.58 -11.53 151.19 237.73 63.96 1 26 0 3232.6 -14.94 144.17
 100.00 5 35 29 2808.73 -29.02 82.50 243.32 82.51 6 22 17 2208.7 -29.76 73.77
 100.00 1 16 54 3655.66 -9.39 137.07 236.61 61.49 2 17 50 3055.7 -13.13 130.27
 110.00 7 31 31 2445.65 -34.13 55.43 243.82 87.93 8 12 17 1845.7 -34.04 46.19
 110.00 1 37 21 3591.51 -5.01 129.54 233.94 56.14 2 37 12 2991.5 -9.42 123.23

DIFFERENTIAL CORRECTIONS

TDE 1.3714 TRA 1.7725 TC3-1.8348 BAU .4234
 ROE -.2102 RRA -.6303 RC3 .4672 FAU .13228
 FDE 7.2266 FRA10.2079 FC3-6.8470 BSP 11054
 BOE 1.3874 BRA 1.8813 BC3 1.8933 FSP -5908

MID-COURSE EXECUTION ACCURACY

SGT 3682.8 SGR 1093.7 SG3 1698.7
 RRT -.9555 RRF -.9638 RTF .9907
 SGB 3841.7 R23 .0352 R13 -.9918
 SG1 3829.2 SG2 310.3 TMA 164.05

ORBIT DETERMINATION ACCURACY

ST 2092.7 SR 416.6 SS 3047.0
 CRT -.9293 CRS .9410 CST -.9994
 LSA 3716.5 MSA 155.2 SSA 12.2
 EL1 2128.4 EL2 151.3 ALF 169.46

LAUNCH DATE NOV 26 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 519.756

RL 147.63 LAL .00 LOL 63.81 VL 27.874 GAL 5.69 AZL 87.36 HCA 227.79 SMA 129.98 ECC .16754 INC 2.6420 V1 30.180
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.633 GAP 2.45 AZP 91.78 TAL 149.42 TAP 17.21 RCA 108.20 APO 151.76 V2 34.797
 RC 91.256 GL 17.96 GP 11.63 ZAL 42.16 ZAP 118.00 ETS 6.67 ZAE 141.59 ETE 165.57 ZAC 84.85 ETC 166.90 CLP-118.64

PLANETOCENTRIC CONIC

C3 17.188 VHL 4.146 DLA 26.29 RAL 15.94 RAD 6567.7 VEL 11.772 PTH 2.08 VHP 3.253 DPA 4.77 RAP 350.22 ECC 1.2829
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 39 31 3192.67 -26.19 110.23 243.59 78.83 4 32 44 2592.7 -27.47 101.79
 90.00 0 31 44 3809.04 -12.23 149.81 238.67 64.26 1 35 13 3209.0 -15.60 142.75
 100.00 5 29 40 2837.60 -28.75 84.60 244.09 81.43 6 16 57 2237.6 -29.63 75.91
 100.00 1 24 17 3639.35 -9.92 136.15 237.47 61.66 2 24 56 3039.3 -13.63 129.32
 110.00 7 28 5 2467.07 -34.06 57.10 244.72 86.94 8 9 12 1867.1 -34.11 47.85
 110.00 1 42 21 3582.64 -5.34 129.07 234.68 56.19 2 42 4 2982.6 -9.75 122.75

DIFFERENTIAL CORRECTIONS

TDE 1.5514 TRA 2.0033 TC3-1.9457 BAU .4573
 ROE -.1574 RRA -.5717 RC3 .4175 FAU .12311
 FDE 6.8703 FRA 9.6550 FC3-6.2007 BSP 12322
 BOE 1.5594 BRA 2.0833 BC3 1.9900 FSP -5587

MID-COURSE EXECUTION ACCURACY

SGT 4090.8 SGR 971.5 SG3 1588.6
 RRT -.9426 RRF -.9495 RTF .9919
 SGB 4204.6 R23 .0267 R13 -.9925
 SG1 4192.7 SG2 316.5 TMA 167.31

ORBIT DETERMINATION ACCURACY

ST 2336.1 SR 342.5 SS 2949.3
 CRT -.8896 CRS .9035 CST -.9995
 LSA 3774.5 MSA 160.8 SSA 12.2
 EL1 2356.0 EL2 155.2 ALF 172.54

LAUNCH DATE NOV 26 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 525.943

RL 147.63 LAL .00 LOL 63.81 VL 27.868 GAL 5.81 AZL 87.29 HCA 230.95 SMA 129.94 ECC .16908 INC 2.7130 V1 30.180
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.625 GAP 2.85 AZP 91.71 TAL 149.03 TAP 19.99 RCA 107.97 APO 151.91 V2 34.793
 RC 93.644 GL 18.17 GP 10.67 ZAL 41.90 ZAP 122.38 ETS 7.18 ZAE 138.95 ETE 167.72 ZAC 83.92 ETC 166.94 CLP-123.02

PLANETOCENTRIC CONIC

C3 17.705 VHL 4.208 DLA 26.62 RAL 16.21 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 3.374 DPA 3.41 RAP 349.51 ECC 1.2914
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 32 3226.56 -25.72 112.60 244.35 77.73 4 26 19 2626.6 -27.16 104.23
 90.00 0 40 52 3788.90 -12.83 148.63 239.69 64.54 1 44 1 3188.9 -16.15 141.53
 100.00 5 24 57 2864.16 -28.46 86.53 244.94 80.46 6 12 41 2264.2 -29.49 77.87
 100.00 1 31 8 3626.53 -10.33 135.42 238.40 61.79 2 31 34 3026.5 -14.03 128.58
 110.00 7 25 33 2486.79 -33.98 58.63 245.70 86.04 8 7 0 1886.8 -34.16 49.39
 110.00 1 47 1 3576.67 -5.57 128.76 235.52 56.22 2 46 38 2976.7 -9.97 122.43

DIFFERENTIAL CORRECTIONS

TDE 1.7207 TRA 2.2236 TC3-2.0333 BAU .4893
 ROE -.1081 RRA -.5203 RC3 .3732 FAU .11343
 FDE 6.4776 FRA 9.0873 FC3-5.5464 BSP 13535
 BOE 1.7241 BRA 2.2836 BC3 2.0673 FSP -5238

MID-COURSE EXECUTION ACCURACY

SGT 4459.7 SGR 865.1 SG3 1474.3
 RRT -.9244 RRF -.9304 RTF .9926
 SGB 4542.8 R23 .0208 R13 -.9929
 SG1 4531.2 SG2 324.7 TMA 169.78

ORBIT DETERMINATION ACCURACY

ST 2554.4 SR 279.8 SS 2842.5
 CRT -.8812 CRS .8383 CST -.9995
 LSA 3828.2 MSA 166.0 SSA 12.1
 EL1 2564.8 EL2 159.0 ALF 174.84

LAUNCH DATE NOV 26 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 532.106

RL 147.63 LAL .00 LOL 63.81 VL 27.860 GAL 5.95 AZL 87.22 HCA 234.11 SMA 129.89 ECC .17086 INC 2.7778 V1 30.180
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.616 GAP 3.26 AZP 91.63 TAL 148.61 TAP 22.73 RCA 107.69 APO 152.08 V2 34.789
 RC 96.038 GL 18.31 GP 9.81 ZAL 41.59 ZAP 126.46 ETS 7.61 ZAE 136.51 ETE 169.40 ZAC 83.25 ETC 166.93 CLP-127.09

PLANETOCENTRIC CONIC

C3 18.283 VHL 4.276 DLA 26.90 RAL 16.54 RAD 6567.7 VEL 11.818 PTH 2.09 VHP 3.513 DPA 2.27 RAP 349.03 ECC 1.3009
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 26 35 3258.35 -25.24 114.81 245.19 76.72 4 20 53 2658.4 -26.82 106.49
 90.00 0 49 29 3772.08 -13.32 147.64 240.79 64.78 1 52 21 3172.1 -16.61 140.51
 100.00 5 21 17 2888.61 -28.17 88.29 245.88 79.57 6 9 25 2288.6 -29.32 79.67
 100.00 1 37 29 3617.05 -10.64 134.88 239.42 61.90 2 37 46 3017.1 -14.31 128.02
 110.00 7 23 51 2505.06 -33.89 60.05 246.77 85.20 8 5 36 1905.1 -34.18 50.82
 110.00 1 51 24 3573.37 -5.70 128.58 236.43 56.24 2 50 57 2973.4 -10.09 122.25

DIFFERENTIAL CORRECTIONS

TDE 1.8816 TRA 2.4374 TC3-2.0932 BAU .5181
 ROE -.0626 RRA -.4759 RC3 .3332 FAU .10318
 FDE 6.0775 FRA 8.5355 FC3-4.8857 BSP 14621
 BOE 1.8826 BRA 2.4834 BC3 2.1195 FSP -4857

MID-COURSE EXECUTION ACCURACY

SGT 4793.1 SGR 774.3 SG3 1361.3
 RRT -.9001 RRF -.9053 RTF .9929
 SGB 4855.2 R23 .0168 R13 -.9931
 SG1 4843.7 SG2 333.8 TMA 171.69

ORBIT DETERMINATION ACCURACY

ST 2750.8 SR 230.5 SS 2733.8
 CRT -.7062 CRS .7272 CST -.9995
 LSA 3881.3 MSA 171.0 SSA 12.2
 EL1 2755.6 EL2 162.9 ALF 176.60

LAUNCH DATE NOV 26 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 538.244

RL 147.63 LAL .00 LOL 63.81 VL 27.852 GAL 6.10 AZL 87.16 HCA 237.28 SMA 129.82 ECC .17289 INC 2.8377 V1 30.180
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.607 GAP 3.67 AZP 91.53 TAL 148.16 TAP 25.43 RCA 107.38 APO 152.27 V2 34.787
 RC 98.436 GL 18.37 GP 9.04 ZAL 41.23 ZAP 130.25 ETS 7.97 ZAE 134.27 ETE 170.72 ZAC 82.84 ETC 166.88 CLP-130.86

PLANETOCENTRIC CONIC

C3 18.927 VHL 4.350 DLA 27.12 RAL 16.94 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 3.667 DPA 1.32 RAP 348.79 ECC 1.3115
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 40 3288.04 -24.76 116.85 246.13 75.81 4 16 28 2688.0 -26.47 108.60
 90.00 0 57 34 3758.64 -13.71 146.84 241.96 64.98 2 0 12 3158.6 -16.97 139.68
 100.00 5 18 36 2911.10 -27.89 89.90 246.91 78.77 6 7 7 2311.1 -29.15 81.32
 100.00 1 43 19 3610.80 -10.84 134.52 240.50 61.97 2 43 30 3010.8 -14.50 127.65
 110.00 7 22 55 2522.09 -33.78 61.37 247.93 84.43 8 4 57 1922.1 -34.18 52.15
 110.00 1 55 30 3572.58 -5.72 128.54 237.41 56.24 2 55 2 2972.6 -10.12 122.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.0302 TRA 2.6423 TC3-2.1357 BAU .5457 SGT 5088.2 SGR 697.4 SG3 1251.1 ST 2920.3 SR 195.9 SS 2619.8
 RDE -.0202 RRA -.4369 RC3 .2991 FAU .09371 RRT -.0687 RRF -.0733 RTF .9930 CRT -.5228 CRS .5482 CST -.9995
 FDE 5.6699 FRA 7.9964 FC3-4.2864 BSP 15669 SGB 5135.8 R23 .0137 R13 -.9931 LSA 3924.1 MSA 175.7 SSA 12.2
 BDE 2.0303 BRA 2.6782 BC3 2.1565 FSP -4501 SG1 5124.3 SG2 343.1 THA 173.18 EL1 2922.1 EL2 166.9 ALF 177.98

LAUNCH DATE NOV 26 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 544.355

RL 147.63 LAL .00 LOL 63.81 VL 27.842 GAL 6.27 AZL 87.11 HCA 240.44 SMA 129.76 ECC .17518 INC 2.8934 V1 30.180
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.599 GAP 4.09 AZP 91.43 TAL 147.67 TAP 28.11 RCA 107.03 APO 152.49 V2 34.785
 RC 100.837 GL 18.37 GP 8.35 ZAL 40.83 ZAP 133.76 ETS 8.29 ZAE 132.23 ETE 171.77 ZAC 82.69 ETC 166.82 CLP-134.35

PLANETOCENTRIC CONIC

C3 19.843 VHL 4.432 DLA 27.30 RAL 17.39 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 3.836 DPA .56 RAP 348.76 ECC 1.3233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 49 3315.52 -24.29 118.72 247.15 74.98 4 13 5 2715.5 -26.12 110.53
 90.00 1 5 1 3748.72 -13.99 146.25 243.20 65.13 2 7 30 3148.7 -17.23 139.07
 100.00 5 16 52 2931.76 -27.60 91.37 248.04 78.05 6 5 44 2331.8 -28.97 82.83
 100.00 1 48 40 3607.71 -10.94 134.35 241.85 62.01 2 48 48 3007.7 -14.60 127.47
 110.00 7 22 40 2538.08 -33.67 62.61 249.17 83.71 8 4 58 1938.1 -34.17 53.40
 110.00 1 59 21 3574.15 -5.67 128.63 238.46 56.23 2 58 55 2974.2 -10.06 122.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.1702 TRA 2.8432 TC3-2.1568 BAU .5708 SGT 5351.3 SGR 633.5 SG3 1147.0 ST 3068.3 SR 177.8 SS 2507.3
 RDE .0190 RRA -.4030 RC3 .2891 FAU .08459 RRT -.0296 RRF -.0336 RTF .9929 CRT -.2744 CRS .3033 CST -.9995
 FDE 5.2771 FRA 7.4910 FC3-3.7283 BSP 16623 SGB 5388.7 R23 .0113 R13 -.9930 LSA 3962.3 MSA 180.2 SSA 12.3
 BDE 2.1703 BRA 2.8716 BC3 2.1736 FSP -4155 SG1 5377.2 SG2 352.0 THA 174.37 EL1 3068.7 EL2 170.9 ALF 179.09

LAUNCH DATE NOV 26 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 550.440

RL 147.63 LAL .00 LOL 63.81 VL 27.831 GAL 6.46 AZL 87.05 HCA 243.60 SMA 129.68 ECC .17772 INC 2.9457 V1 30.180
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.589 GAP 4.51 AZP 91.31 TAL 147.16 TAP 30.76 RCA 106.63 APO 152.73 V2 34.784
 RC 103.240 GL 18.32 GP 7.73 ZAL 40.38 ZAP 137.01 ETS 8.58 ZAE 130.38 ETE 172.61 ZAC 82.76 ETC 166.75 CLP-137.58

PLANETOCENTRIC CONIC

C3 20.438 VHL 4.521 DLA 27.44 RAL 17.89 RAD 6567.8 VEL 11.909 PTH 2.12 VHP 4.018 DPA -.04 RAP 348.94 ECC 1.3364
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 15 6 3340.59 -23.84 120.42 248.27 74.24 4 10 47 2740.6 -25.77 112.28
 90.00 1 11 46 3742.56 -14.17 145.89 244.50 65.22 2 14 9 3142.6 -17.39 138.70
 100.00 5 16 3 2950.68 -27.33 92.71 249.25 77.39 6 5 14 2350.7 -28.79 84.21
 100.00 1 53 30 3607.70 -10.94 134.35 242.86 62.01 2 53 38 3007.7 -14.60 127.47
 110.00 7 23 5 2553.17 -33.55 63.77 250.50 83.03 8 5 38 1953.2 -34.15 54.58
 110.00 2 2 58 3577.97 -5.52 128.83 239.59 56.21 3 2 36 2978.0 -9.92 122.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3027 TRA 3.0420 TC3-2.1587 BAU .5936 SGT 5585.6 SGR 581.1 SG3 1050.2 ST 3196.6 SR 174.9 SS 2398.3
 RDE .0355 RRA -.3736 RC3 .2425 FAU .07599 RRT -.7828 RRF -.7861 RTF .9928 CRT -.0070 CRS .0374 CST -.9995
 FDE 4.9067 FRA 7.0239 FC3-3.2187 BSP 17490 SGB 5615.7 R23 .0093 R13 -.9928 LSA 3995.9 MSA 184.5 SSA 11.4
 BDE 2.3034 BRA 3.0649 BC3 2.1723 FSP -3825 SG1 5604.1 SG2 360.4 THA 175.32 EL1 3196.6 EL2 174.9 ALF 179.98

LAUNCH DATE NOV 26 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 556.497

RL 147.63 LAL .00 LOL 63.81 VL 27.819 GAL 6.67 AZL 87.00 HCA 246.76 SMA 129.60 ECC .18054 INC 2.9952 V1 30.180
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.580 GAP 4.93 AZP 91.18 TAL 146.61 TAP 33.37 RCA 106.20 APO 152.99 V2 34.783
 RC 105.643 GL 18.22 GP 7.18 ZAL 39.89 ZAP 140.04 ETS 8.86 ZAE 128.72 ETE 173.30 ZAC 83.05 ETC 166.67 CLP-140.58

PLANETOCENTRIC CONIC

C3 21.322 VHL 4.618 DLA 27.55 RAL 18.45 RAD 6567.9 VEL 11.946 PTH 2.13 VHP 4.213 DPA -.48 RAP 349.31 ECC 1.3509
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 35 3363.02 -23.41 121.93 249.49 73.60 4 9 38 2763.0 -25.44 113.84
 90.00 1 17 42 3740.43 -14.23 145.76 245.85 65.26 2 20 3 3140.4 -17.45 138.56
 100.00 5 16 8 2987.95 -27.07 93.92 250.56 76.81 6 5 36 2368.0 -28.61 85.46
 100.00 1 57 50 3610.73 -10.84 134.52 244.13 61.97 2 58 1 3010.7 -14.51 127.65
 110.00 7 24 6 2567.50 -33.43 64.87 251.91 82.39 8 6 53 1967.5 -34.12 55.69
 110.00 2 6 22 3583.95 -5.29 129.14 240.78 56.18 3 6 6 2983.9 -9.70 122.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4284 TRA 3.2411 TC3-2.1429 BAU .6140 SGT 5793.9 SGR 538.7 SG3 961.1 ST 3306.7 SR 183.6 SS 2293.2
 RDE .0895 RRA -.3478 RC3 .2189 FAU .06797 RRT -.7284 RRF -.7310 RTF .9925 CRT .2235 CRS -.1934 CST -.9995
 FDE 4.5603 FRA 6.5964 FC3-2.7597 BSP 18270 SGB 5818.9 R23 .0076 R13 -.9925 LSA 4023.8 MSA 188.5 SSA 12.6
 BDE 2.4300 BRA 3.2597 BC3 2.1541 FSP -3516 SG1 5807.2 SG2 368.2 THA 176.11 EL1 3307.0 EL2 178.9 ALF .71

LAUNCH DATE NOV 26 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.807 GAL 6.90 AZL 86.96 MCA 249.92 SMA 129.51 ECC .18364 INC 3.0425 V1 30.180
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.571 GAP 5.36 AZP 91.05 TAL 146.04 TAP 35.96 RCA 105.72 APO 153.29 V2 34.783
 RC 108.045 GL 18.07 GP 6.69 ZAL 39.36 ZAP 142.84 ETS 9.13 ZAE 127.23 ETE 173.85 ZAC 83.53 ETC 166.60 CLP-143.36

PLANETOCENTRIC CONIC
 C3 22.303 VHL 4.723 CLA 27.62 RAL 19.04 RAD 6567.9 VEL 11.987 PTH 2.14 VHP 4.420 DPA -.78 RAP 349.85 ECC 1.3671
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 19 3382.58 -23.03 123.23 250.81 73.06 4 9 41 2782.6 -25.14 115.19
 90.00 1 22 44 3742.60 -14.16 145.89 247.25 65.22 2 25 6 3142.6 -17.39 138.70
 100.00 5 17 3 2983.68 -26.82 95.03 251.96 76.28 6 6 47 2383.7 -28.44 86.60
 100.00 2 1 40 3616.74 -10.65 134.86 245.46 61.90 3 1 57 3016.7 -14.32 128.00
 110.00 7 25 40 2581.18 -33.30 65.92 253.41 81.78 8 8 41 1981.2 -34.07 56.76
 110.00 2 9 33 3592.00 -4.99 129.57 242.04 56.14 3 9 25 2992.0 -9.40 123.26

DIFFERENTIAL CORRECTIONS
 TOE 2.5515 TRA 3.4451 TC3-2.1064 BAU .6308 SGT 5982.5 SGR 504.6 SG3 880.3 ST 3404.2 SR 198.9 SS 2195.9
 RDE .1214 RRA -.3252 RC3 .1974 FAU .06024 RRT -.6674 RRF -.6692 RTF .9921 CRT .3938 CRS -.3651 CST -.9995
 FDE 4.2467 FRA 6.2138 FC3-2.3384 BSP 18907 SGB 6003.8 R23 .0059 R13 -.9922 LSA 4051.3 MSA 192.2 SSA 12.6
 BOE 2.5544 BRA 3.4604 BC3 2.1156 FSP -3215 SG1 5992.1 SG2 375.2 THA 176.77 EL1 3405.1 EL2 182.8 ALF 1.32

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 26 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.793 GAL 7.15 AZL 86.91 MCA 253.08 SMA 129.41 ECC .18705 INC 3.0879 V1 30.180
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.562 GAP 5.80 AZP 90.90 TAL 145.44 TAP 38.52 RCA 105.21 APO 153.62 V2 34.784
 RC 110.446 GL 17.89 GP 6.25 ZAL 38.80 ZAP 145.46 ETS 9.42 ZAE 125.89 ETE 174.32 ZAC 84.18 ETC 166.54 CLP-145.96

PLANETOCENTRIC CONIC
 C3 23.392 VHL 4.837 CLA 27.65 RAL 19.68 RAD 6567.9 VEL 12.032 PTH 2.15 VHP 4.640 DPA -.97 RAP 350.54 ECC 1.3850
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 14 21 3399.09 -22.70 124.33 252.24 72.60 4 11 0 2799.1 -24.87 116.33
 90.00 1 26 45 3749.29 -13.97 146.29 248.69 65.12 2 29 15 3149.3 -17.21 139.11
 100.00 5 18 47 2997.96 -26.58 96.02 253.45 75.80 6 8 45 2398.0 -28.27 87.63
 100.00 2 5 0 3625.66 -10.36 135.37 246.84 61.80 3 5 26 3025.7 -14.05 128.52
 110.00 7 27 45 2594.32 -33.17 66.92 254.99 81.20 8 10 59 1994.3 -34.02 57.78
 110.00 2 12 31 3602.06 -4.61 130.09 243.35 56.09 3 12 33 3002.1 -9.03 123.80

DIFFERENTIAL CORRECTIONS
 TOE 2.6669 TRA 3.6498 TC3-2.0614 BAU .6471 SGT 6146.9 SGR 477.6 SG3 806.1 ST 3482.7 SR 217.6 SS 2100.4
 RDE .1519 RRA -.3045 RC3 .1784 FAU .05351 RRT -.6008 RRF -.6017 RTF .9918 CRT .5138 CRS -.4868 CST -.9995
 FDE 3.9524 FRA 5.8614 FC3-1.9805 BSP 19552 SGB 6165.4 R23 .0044 R13 -.9918 LSA 4068.2 MSA 195.8 SSA 12.7
 BOE 2.6713 BRA 3.6625 BC3 2.0692 FSP -2954 SG1 6153.6 SG2 381.4 THA 177.32 EL1 3484.5 EL2 186.6 ALF 1.84

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 26 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.779 GAL 7.42 AZL 86.87 MCA 256.24 SMA 129.31 ECC .19077 INC 3.1318 V1 30.180
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.553 GAP 6.25 AZP 90.75 TAL 144.82 TAP 41.06 RCA 104.64 APO 153.98 V2 34.786
 RC 112.844 GL 17.66 GP 5.85 ZAL 38.21 ZAP 147.90 ETS 9.72 ZAE 124.69 ETE 174.71 ZAC 84.98 ETC 166.49 CLP-148.38

PLANETOCENTRIC CONIC
 C3 24.602 VHL 4.960 CLA 27.66 RAL 20.35 RAD 6568.0 VEL 12.082 PTH 2.16 VHP 4.871 DPA -1.04 RAP 351.37 ECC 1.4049
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 16 40 3412.57 -22.42 125.22 253.77 72.24 4 13 33 2812.6 -24.64 117.25
 90.00 1 29 46 3760.52 -13.65 146.95 250.16 64.95 2 32 26 3160.5 -16.92 139.80
 100.00 5 21 16 3010.92 -26.36 96.92 255.02 75.38 6 11 27 2410.9 -28.11 88.56
 100.00 2 7 51 3637.41 -9.98 136.04 248.27 61.68 3 8 29 3037.4 -13.69 129.21
 110.00 7 30 19 2607.02 -33.03 67.88 256.65 80.64 8 13 46 2007.0 -33.97 58.77
 110.00 2 15 17 3614.07 -4.15 130.72 244.72 56.04 3 15 31 3014.1 -8.58 124.44

DIFFERENTIAL CORRECTIONS
 TOE 2.7788 TRA 3.8599 TC3-2.0045 BAU .6614 SGT 6292.8 SGR 456.3 SG3 738.8 ST 3548.0 SR 237.3 SS 2010.3
 RDE .1811 RRA -.2857 RC3 .1612 FAU .04737 RRT -.5301 RRF -.5300 RTF .9914 CRT .5970 CRS -.5715 CST -.9995
 FDE 3.6837 FRA 5.5435 FC3-1.6671 BSP 20133 SGB 6309.3 R23 .0030 R13 -.9914 LSA 4079.9 MSA 199.1 SSA 12.7
 BOE 2.7847 BRA 3.8704 BC3 2.0110 FSP -2714 SG1 6297.5 SG2 386.6 THA 177.79 EL1 3550.8 EL2 190.2 ALF 2.29

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 26 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 63.81 VL 27.764 GAL 7.71 AZL 86.83 MCA 259.40 SMA 129.21 ECC .19484 INC 3.1745 V1 30.180
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.544 GAP 6.71 AZP 90.58 TAL 144.18 TAP 43.58 RCA 104.03 APO 154.38 V2 34.789
 RC 115.239 GL 17.40 GP 5.50 ZAL 37.59 ZAP 150.19 ETS 10.04 ZAE 123.61 ETE 175.04 ZAC 85.92 ETC 166.44 CLP-150.66

PLANETOCENTRIC CONIC
 C3 25.948 VHL 5.094 CLA 27.64 RAL 21.04 RAD 6568.0 VEL 12.138 PTH 2.18 VHP 5.116 DPA -1.01 RAP 352.32 ECC 1.4270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 20 13 3423.20 -22.20 125.92 255.40 71.96 4 17 16 2823.2 -24.46 117.98
 90.00 1 31 48 3776.15 -13.20 147.88 251.65 64.72 2 34 44 3176.1 -16.50 140.76
 100.00 5 24 27 3022.70 -26.16 97.74 256.69 74.99 6 14 50 2422.7 -27.96 89.40
 100.00 2 10 14 3651.89 -9.51 136.86 249.75 61.53 3 11 6 3051.9 -13.25 130.05
 110.00 7 33 20 2619.37 -32.89 68.82 258.39 80.11 8 16 59 2019.4 -33.90 59.73
 110.00 2 17 51 3627.97 -3.62 131.45 246.15 55.99 3 18 19 3028.0 -8.06 125.18

DIFFERENTIAL CORRECTIONS
 TOE 2.8878 TRA 4.0774 TC3-1.9366 BAU .6737 SGT 6422.3 SGR 439.6 SG3 677.8 ST 3600.9 SR 256.7 SS 1925.3
 RDE .2094 RRA -.2681 RC3 .1454 FAU .04175 RRT -.4568 RRF -.4558 RTF .9909 CRT .6556 CRS -.6314 CST -.9995
 FDE 3.4390 FRA 5.2580 FC3-1.3931 BSP 20667 SGB 6437.4 R23 .0017 R13 -.9909 LSA 4086.4 MSA 202.1 SSA 12.8
 BOE 2.8954 BRA 4.0862 BC3 1.9420 FSP -2497 SG1 6425.5 SG2 390.9 THA 178.20 EL1 3604.9 EL2 193.6 ALF 2.68

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 26 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 586.296

RL 147.63 LAL .00 LOL 63.81 VL 27.748 GAL 8.03 AZL 86.78 MCA 262.56 SMA 129.10 ECC .19927 INC 3.2163 VI 30.180
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.536 GAP 7.19 AZP 90.42 TAL 143.52 TAP 46.08 RCA 103.37 APO 154.83 V2 34.792
 RC 117.630 GL 17.11 GP 5.18 ZAL 36.94 ZAP 152.35 ETS 10.39 ZAE 122.64 ETE 175.32 ZAC 86.99 ETC 166.40 CLP-152.80

PLANETOCENTRIC CONIC

C3 27.445 VHL 5.239 DLA 27.60 RAL 21.77 RAD 6568.1 VEL 12.199 PTH 2.19 VHP 5.373 DPA -.89 RAP 353.38 ECC 1.4517
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 24 52 3431.35 -22.03 126.46 257.14 71.74 4 22 3 2831.3 -24.32 118.53
 90.00 1 32 55 3795.84 -12.62 149.04 253.18 64.44 2 36 11 3195.8 -15.96 141.95
 100.00 5 28 18 3033.45 -25.97 98.48 258.44 74.65 6 18 51 2433.4 -27.82 90.17
 100.00 2 12 11 3668.97 -8.96 137.82 251.27 61.36 3 13 20 3069.0 -12.71 131.04
 110.00 7 36 45 2631.47 -32.74 69.74 260.21 79.58 8 20 36 2031.5 -33.83 60.67
 110.00 2 20 13 3643.72 -3.02 132.28 247.64 55.93 3 20 57 3043.7 -7.47 126.02

DIFFERENTIAL CORRECTIONS

TDE 2.9958 TRA 4.3044 TC3-1.8581 BAU .6835
 RDE .2368 RRA -.2514 RC3 .1307 FAU .03659
 FDE 3.2175 FRA 5.0026 FC3-1.1542 BSP 21131
 BDE 3.0051 BRA 4.3118 BC3 1.8627 FSP -2296

MID-COURSE EXECUTION ACCURACY

SGT 6537.9 SGR 426.7 SG3 622.8
 RRT -.3823 RRF -.3804 RTF .9905
 SGB 6551.8 R23 .0004 R13 -.9905
 SG1 6539.9 SG2 394.2 TMA 178.57

ORBIT DETERMINATION ACCURACY

ST 3643.9 SR 275.2 SS 1846.0
 CRT .6979 CRS -.6749 CST -.9995
 LSA 4089.0 MSA 204.8 SSA 12.8
 EL1 3649.0 EL2 196.8 ALF 3.03

LAUNCH DATE NOV 26 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 592.141

RL 147.63 LAL .00 LOL 63.81 VL 27.732 GAL 8.37 AZL 86.74 MCA 265.73 SMA 128.99 ECC .20408 INC 3.2576 VI 30.180
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.527 GAP 7.68 AZP 90.24 TAL 142.84 TAP 48.57 RCA 102.66 APO 155.31 V2 34.796
 RC 120.015 GL 16.80 GP 4.90 ZAL 36.28 ZAP 154.38 ETS 10.79 ZAE 121.76 ETE 175.57 ZAC 88.16 ETC 166.37 CLP-154.82

PLANETOCENTRIC CONIC

C3 29.114 VHL 5.396 DLA 27.53 RAL 22.52 RAD 6568.2 VEL 12.267 PTH 2.21 VHP 5.644 DPA -.69 RAP 354.53 ECC 1.4791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 30 27 3437.48 -21.90 126.86 258.96 71.58 4 27 45 2837.5 -24.21 118.95
 90.00 1 33 17 3819.17 -11.93 150.41 254.73 64.13 2 36 56 3219.2 -15.32 143.36
 100.00 5 32 43 3043.33 -25.79 99.16 260.27 74.33 6 23 27 2443.3 -27.69 90.87
 100.00 2 13 42 3688.55 -8.32 138.92 252.84 61.18 3 15 11 3088.5 -12.10 132.17
 110.00 7 40 31 2643.38 -32.59 70.63 262.11 79.07 8 24 35 2043.4 -33.76 61.59
 110.00 2 22 24 3661.26 -2.35 133.19 249.17 55.89 3 23 25 3061.3 -6.81 126.95

DIFFERENTIAL CORRECTIONS

TDE 3.1056 TRA 4.5448 TC3-1.7677 BAU .6895
 RDE .2635 RRA -.2353 RC3 .1170 FAU .03169
 FDE 3.0202 FRA 4.7770 FC3 -.9423 BSP 21480
 BDE 3.1168 BRA 4.5509 BC3 1.7716 FSP -2105

MID-COURSE EXECUTION ACCURACY

SGT 6643.2 SGR 416.7 SG3 573.4
 RRT -.3076 RRF -.3048 RTF .9900
 SGB 6656.3 R23 -.0009 R13 -.9900
 SG1 6644.5 SG2 396.4 TMA 178.89

ORBIT DETERMINATION ACCURACY

ST 3680.3 SR 292.3 SS 1773.7
 CRT .7292 CRS -.7074 CST -.9995
 LSA 4090.6 MSA 207.2 SSA 12.8
 EL1 3686.4 EL2 199.7 ALF 3.32

LAUNCH DATE NOV 26 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 597.939

RL 147.63 LAL .00 LOL 63.81 VL 27.716 GAL 8.75 AZL 86.70 MCA 268.89 SMA 128.87 ECC .20932 INC 3.2985 VI 30.180
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.519 GAP 8.19 AZP 90.06 TAL 142.15 TAP 51.04 RCA 101.90 APO 155.85 V2 34.800
 RC 122.394 GL 16.45 GP 4.64 ZAL 35.60 ZAP 156.31 ETS 11.23 ZAE 120.97 ETE 175.80 ZAC 89.42 ETC 166.34 CLP-156.74

PLANETOCENTRIC CONIC

C3 30.977 VHL 5.566 DLA 27.44 RAL 23.28 RAD 6568.2 VEL 12.343 PTH 2.23 VHP 5.929 DPA -.42 RAP 355.77 ECC 1.5098
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 50 3442.08 -21.80 127.16 260.88 71.46 4 34 12 2842.1 -24.13 119.26
 90.00 1 33 0 3845.68 -11.14 151.95 256.32 63.80 2 37 6 3245.7 -14.58 144.95
 100.00 5 37 41 3052.50 -25.62 99.79 262.18 74.04 6 28 33 2452.5 -27.56 91.52
 100.00 2 14 50 3710.48 -7.60 140.15 254.44 61.00 3 16 41 3110.5 -11.41 133.43
 110.00 7 44 38 2655.19 -32.44 71.52 264.08 78.57 8 28 54 2055.2 -33.67 62.50
 110.00 2 24 22 3680.56 -1.62 134.20 250.76 55.85 3 25 43 3080.6 -6.09 127.97

DIFFERENTIAL CORRECTIONS

TDE 3.2114 TRA 4.7933 TC3-1.6756 BAU .6953
 RDE .2900 RRA -.2192 RC3 .1045 FAU .02745
 FDE 2.8368 FRA 4.5705 FC3 -.7671 BSP 21879
 BDE 3.2244 BRA 4.7983 BC3 1.6789 FSP -1941

MID-COURSE EXECUTION ACCURACY

SGT 6732.0 SGR 409.0 SG3 528.1
 RRT -.2337 RRF -.2301 RTF .9896
 SGB 6744.4 R23 -.0020 R13 -.9896
 SG1 6732.7 SG2 397.6 TMA 179.18

ORBIT DETERMINATION ACCURACY

ST 3703.3 SR 308.1 SS 1703.6
 CRT .7532 CRS -.7323 CST -.9995
 LSA 4082.6 MSA 209.3 SSA 12.7
 EL1 3710.6 EL2 202.3 ALF 3.60

LAUNCH DATE NOV 26 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 603.685

RL 147.63 LAL .00 LOL 63.81 VL 27.698 GAL 9.15 AZL 86.66 MCA 272.05 SMA 128.75 ECC .21502 INC 3.3394 VI 30.180
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.511 GAP 8.71 AZP 89.88 TAL 141.46 TAP 53.51 RCA 101.07 APO 156.44 V2 34.805
 RC 124.766 GL 16.08 GP 4.41 ZAL 34.91 ZAP 158.14 ETS 11.73 ZAE 120.24 ETE 176.00 ZAC 90.77 ETC 166.31 CLP-158.57

PLANETOCENTRIC CONIC

C3 33.061 VHL 5.750 DLA 27.32 RAL 24.06 RAD 6568.3 VEL 12.427 PTH 2.25 VHP 6.231 DPA -.09 RAP 357.08 ECC 1.5441
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 50 3445.62 -21.72 127.39 262.88 71.37 4 41 15 2845.6 -24.06 119.50
 90.00 1 32 12 3874.92 -10.26 153.64 257.93 63.46 2 36 47 3274.9 -13.74 146.70
 100.00 5 43 6 3061.12 -25.46 100.38 264.16 73.78 6 34 7 2461.1 -27.43 92.13
 100.00 2 15 37 3734.65 -6.80 141.50 256.08 60.82 3 17 52 3134.6 -10.64 134.81
 110.00 7 49 3 2666.96 -32.27 72.40 266.11 78.07 8 33 30 2067.0 -33.58 63.41
 110.00 2 26 9 3701.58 -.81 135.30 252.39 55.83 3 27 51 3101.6 -5.29 129.07

DIFFERENTIAL CORRECTIONS

TDE 3.3187 TRA 5.0563 TC3-1.5771 BAU .6983
 RDE .3161 RRA -.2029 RC3 .0928 FAU .02353
 FDE 2.6716 FRA 4.3870 FC3 -.6161 BSP 22224
 BDE 3.3337 BRA 5.0604 BC3 1.5798 FSP -1791

MID-COURSE EXECUTION ACCURACY

SGT 6810.8 SGR 403.0 SG3 487.2
 RRT -.1612 RRF -.1570 RTF .9892
 SGB 6822.7 R23 -.0031 R13 -.9892
 SG1 6811.1 SG2 397.7 TMA 179.45

ORBIT DETERMINATION ACCURACY

ST 3719.3 SR 322.3 SS 1638.7
 CRT .7719 CRS -.7519 CST -.9995
 LSA 4071.6 MSA 211.0 SSA 12.6
 EL1 3727.7 EL2 204.5 ALF 3.84

LAUNCH DATE NOV 27 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 5 1969

HELIOCENTRIC CONIC

DISTANCE 126.289

RL 147.60 LAL .00 LOL 64.82 VL 15.051 GAL 33.37 AZL 87.75 MCA 32.23 SMA 84.44 ECC .83239 INC 2.2451 VI 30.186
 RP 107.60 LAP 1.20 LOP 97.03 VP 29.916 GAP -54.81 AZP 88.10 TAL 172.01 TAP 204.24 RCA 14.15 APO 154.72 V2 35.218
 RC 93.090 GL 1.44 GP -.73 ZAL 64.04 ZAP 36.49 ETS 177.17 ZAE 130.58 ETE 184.90 ZAC 49.94 ETC 158.78 CLP 36.48

PLANETOCENTRIC CONIC

C3 384.545 VHL 19.610 DLA 1.63 RAL .15 RAD 6572.1 VEL 22.491 PTH 3.26 VHP 30.244 DPA -20.21 RAP 317.04 ECC 7.3286
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 38 2866.51 -28.31 86.69 266.32 90.38 7 33 25 2266.5 -27.96 78.04
 90.00 19 7 51 5409.40 28.05 248.25 264.58 85.93 20 38 1 4809.4 27.19 239.69
 100.00 8 7 44 2601.69 -29.89 67.20 266.31 90.50 8 51 6 2001.7 -29.50 58.41
 100.00 20 28 26 5149.46 29.62 229.01 264.45 85.76 21 54 16 4549.5 28.71 220.32
 110.00 9 17 43 2382.63 -34.17 50.51 266.25 90.84 9 57 26 1782.6 -33.68 41.30
 110.00 21 34 56 4941.28 33.89 212.81 264.05 85.24 22 57 18 4341.3 32.86 203.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9486 TRA-2.2415 TC3 -.1078 BAU .5554 SGT 827.5 SGR 457.6 SG3 23.0 ST 340.0 SR 409.0 SS 341.1
 RDE -1.3825 RRA .7296 RC3 -.0071 FAU .01075 RRT -.0421 RRF .0375 RTF -.6189 CRT .7148 CRS .7699 CST .9949
 FDE .3843 FRA .7583 FC3 -.0242 BSP 1995 SGB 945.7 R23 .0000 R13 .6190 LSA 590.8 MSA 223.5 SSA 14.1
 BOE 1.6767 BRA 2.3573 BC3 .1080 FSP -47 SG1 827.9 SG2 457.1 THA 178.08 EL1 494.1 EL2 196.8 ALF 52.28

LAUNCH DATE NOV 27 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 7 1969

HELIOCENTRIC CONIC

DISTANCE 131.575

RL 147.60 LAL .00 LOL 64.82 VL 15.865 GAL 31.71 AZL 87.63 MCA 35.47 SMA 85.81 ECC .80718 INC 2.3694 VI 30.186
 RP 107.58 LAP 1.37 LOP 100.27 VP 30.343 GAP -52.39 AZP 88.07 TAL 171.08 TAP 206.55 RCA 16.55 APO 155.08 V2 35.225
 RC 90.872 GL 1.70 GP -.75 ZAL 62.65 ZAP 34.95 ETS 177.17 ZAE 130.40 ETE 185.26 ZAC 51.56 ETC 159.33 CLP 34.94

PLANETOCENTRIC CONIC

C3 353.878 VHL 18.812 DLA 2.43 RAL 1.33 RAD 6571.9 VEL 21.799 PTH 3.23 VHP 29.178 DPA -19.77 RAP 318.79 ECC 6.8239
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 44 26 2882.66 -28.32 87.87 267.27 89.78 7 32 28 2282.7 -28.05 79.21
 90.00 19 18 29 5376.09 27.86 245.84 264.68 84.73 20 48 5 4776.1 26.84 237.32
 100.00 8 6 54 2616.64 -29.89 68.31 267.27 89.91 8 50 31 2016.6 -29.58 59.52
 100.00 20 38 42 5117.34 29.43 226.64 264.52 84.52 22 3 59 4517.3 28.36 218.00
 110.00 9 17 45 2394.91 -34.18 51.47 267.26 90.27 9 57 40 1794.9 -33.77 42.25
 110.00 21 44 21 4911.84 33.70 210.53 264.01 83.90 23 6 13 4311.8 32.49 201.51

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9559 TRA-2.2656 TC3 -.1152 BAU .5464 SGT 865.8 SGR 463.6 SG3 24.8 ST 357.6 SR 413.9 SS 357.1
 RDE -1.3421 RRA .7103 RC3 -.0082 FAU .01075 RRT -.0428 RRF .0383 RTF -.6376 CRT .7132 CRS .7709 CST .9947
 FDE .4006 FRA .7863 FC3 -.0263 BSP 2128 SGB 982.1 R23 -.0001 R13 .6377 LSA 611.4 MSA 229.6 SSA 14.3
 BOE 1.6477 BRA 2.3744 BC3 .1155 FSP -51 SG1 866.1 SG2 463.0 THA 178.16 EL1 507.3 EL2 204.5 ALF 50.81

LAUNCH DATE NOV 27 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 9 1969

HELIOCENTRIC CONIC

DISTANCE 136.996

RL 147.60 LAL .00 LOL 64.82 VL 16.633 GAL 30.19 AZL 87.52 MCA 38.71 SMA 87.22 ECC .78166 INC 2.4755 VI 30.186
 RP 107.56 LAP 1.55 LOP 103.51 VP 30.759 GAP -50.10 AZP 88.07 TAL 170.15 TAP 208.86 RCA 19.04 APO 155.39 V2 35.232
 RC 88.659 GL 1.97 GP -.76 ZAL 61.30 ZAP 33.44 ETS 177.17 ZAE 130.28 ETE 185.63 ZAC 53.20 ETC 159.86 CLP 33.43

PLANETOCENTRIC CONIC

C3 325.837 VHL 18.051 DLA 3.22 RAL 2.46 RAD 6571.8 VEL 21.146 PTH 3.20 VHP 28.148 DPA -19.31 RAP 320.56 ECC 6.3625
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 43 5 2898.10 -28.31 89.00 268.12 89.22 7 31 23 2298.1 -28.12 80.34
 90.00 19 28 53 5342.55 27.63 243.41 264.72 83.54 20 57 56 4742.5 26.45 234.94
 100.00 8 5 56 2630.89 -29.89 69.37 268.15 89.36 8 49 47 2030.9 -29.66 60.57
 100.00 20 48 44 5085.00 29.20 224.26 264.52 83.29 22 13 28 4485.0 27.96 215.68
 110.00 9 17 37 2406.50 -34.18 52.37 268.19 89.74 9 57 44 1806.5 -33.84 43.15
 110.00 21 53 31 4882.14 33.46 208.25 263.90 82.57 23 14 54 4282.1 32.07 199.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9636 TRA-2.2904 TC3 -.1229 BAU .5369 SGT 903.9 SGR 469.0 SG3 26.7 ST 376.1 SR 418.3 SS 373.5
 RDE -1.3014 RRA .6903 RC3 -.0094 FAU .01076 RRT -.0433 RRF .0390 RTF -.6557 CRT .7118 CRS .7718 CST .9945
 FDE .4172 FRA .8148 FC3 -.0286 BSP 2261 SGB 1020.1 R23 -.0002 R13 .6558 LSA 632.6 MSA 235.5 SSA 14.5
 BOE 1.6193 BRA 2.3922 BC3 .1232 FSP -56 SG1 906.2 SG2 468.4 THA 178.25 EL1 521.0 EL2 212.1 ALF 49.26

LAUNCH DATE NOV 27 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 11 1969

HELIOCENTRIC CONIC

DISTANCE 142.543

RL 147.60 LAL .00 LOL 64.82 VL 17.357 GAL 28.79 AZL 87.43 MCA 41.96 SMA 88.65 ECC .75602 INC 2.5677 VI 30.186
 RP 107.54 LAP 1.72 LOP 106.75 VP 31.162 GAP -47.94 AZP 88.09 TAL 169.22 TAP 211.18 RCA 21.63 APO 155.67 V2 35.238
 RC 86.453 GL 2.25 GP -.78 ZAL 60.00 ZAP 31.95 ETS 177.16 ZAE 130.22 ETE 186.02 ZAC 54.88 ETC 160.36 CLP 31.94

PLANETOCENTRIC CONIC

C3 300.159 VHL 17.325 DLA 4.00 RAL 3.55 RAD 6571.7 VEL 20.530 PTH 3.17 VHP 27.151 DPA -18.83 RAP 322.34 ECC 5.9399
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 41 36 2912.84 -28.29 90.07 268.89 88.68 7 30 9 2312.8 -28.17 81.41
 90.00 19 39 3 5308.73 27.35 240.97 264.70 82.35 21 7 32 4708.7 26.00 232.56
 100.00 8 4 49 2644.44 -29.87 70.37 268.93 88.83 8 48 53 2044.4 -29.71 61.57
 100.00 20 58 31 5052.37 28.91 221.88 264.45 82.07 22 22 44 4452.4 27.52 213.36
 110.00 9 17 21 2417.41 -34.18 53.23 269.02 89.23 9 57 38 1817.4 -33.90 43.99
 110.00 22 2 28 4852.16 33.17 205.96 263.72 81.24 23 23 21 4252.2 31.61 197.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9711 TRA-2.3153 TC3 -.1308 BAU .5266 SGT 947.4 SGR 473.7 SG3 28.7 ST 395.4 SR 422.2 SS 390.2
 RDE -1.2606 RRA .6694 RC3 -.0107 FAU .01078 RRT -.0438 RRF .0396 RTF -.6732 CRT .7103 CRS .7727 CST .9942
 FDE .4341 FRA .8438 FC3 -.0311 BSP 2403 SGB 1059.3 R23 -.0003 R13 .6733 LSA 654.6 MSA 241.1 SSA 14.7
 BOE 1.5912 BRA 2.4101 BC3 .1312 FSP -62 SG1 947.7 SG2 473.1 THA 178.33 EL1 535.1 EL2 219.6 ALF 47.64

LAUNCH DATE NOV 27 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC

DISTANCE 148.209

RL 147.60 LAL .00 LOL 64.82 VL 18.038 GAL 27.49 AZL 87.35 MCA 45.20 SMA 90.10 ECC .73040 INC 2.6489 V1 30.186
 RP 107.53 LAP 1.88 LOP 109.99 VP 31.553 GAP -45.88 AZP 88.13 TAL 168.30 TAP 213.50 RCA 24.29 APO 155.91 V2 35.243
 RC 84.254 GL 2.55 GP -.81 ZAL 58.75 ZAP 30.49 ETS 177.15 ZAE 130.24 ETE 186.43 ZAC 56.57 ETC 160.83 CLP 30.48

PLANETOCENTRIC CONIC

C3 276.617 VHL 16.632 DLA 4.77 RAL 4.59 RAD 6571.6 VEL 19.948 PTH 3.14 VHP 26.186 DPA -18.33 RAP 324.14 ECC 5.5524
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 39 58 2926.90 -28.26 91.10 269.57 88.16 7 28 44 2326.9 -28.22 82.44
 90.00 19 49 0 5274.60 27.01 238.53 264.61 81.17 21 16 55 4674.6 25.51 230.18
 100.00 8 3 33 2657.30 -29.85 71.33 269.62 88.32 8 47 50 2057.3 -29.76 62.53
 100.00 21 8 6 5019.42 28.58 219.49 264.33 80.85 22 31 46 4419.4 27.02 211.03
 110.00 9 16 56 2427.64 -34.16 54.02 269.75 88.76 9 57 23 1827.6 -33.96 44.78
 110.00 22 11 13 4821.85 32.84 203.65 263.49 79.92 23 31 34 4221.9 31.10 194.86

DIFFERENTIAL CORRECTIONS

TDE -.9789 TRA-2.3401 TC3 -.1389 BAU .5157
 RDE -1.2196 RRA .6479 RC3 -.0122 FAU .01082
 FDE .4514 FRA .8733 FC3 -.0339 BSP 2549
 BOE 1.5638 BRA 2.4282 BC3 .1394 FSP -67

MID-COURSE EXECUTION ACCURACY

SGT 990.8 SGR 477.8 SG3 30.9
 RRT -.0439 RRF .0400 RTF -.6901
 SGB 1100.0 R23 -.0005 R13 .6902
 SG1 991.1 SG2 477.2 THA 178.42

ORBIT DETERMINATION ACCURACY

ST 415.7 SR 425.5 SS 407.2
 CRT .7089 CRS .7736 CST .9940
 LSA 677.3 MSA 246.4 SSA 14.9
 EL1 549.9 EL2 226.9 ALF 45.94

LAUNCH DATE NOV 27 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

DISTANCE 153.987

RL 147.60 LAL .00 LOL 64.82 VL 18.680 GAL 26.26 AZL 87.28 MCA 48.45 SMA 91.57 ECC .70493 INC 2.7215 V1 30.186
 RP 107.51 LAP 2.04 LOP 113.23 VP 31.929 GAP -43.92 AZP 88.19 TAL 167.38 TAP 215.83 RCA 27.02 APO 156.12 V2 35.247
 RC 82.065 GL 2.86 GP -.83 ZAL 57.54 ZAP 29.04 ETS 177.12 ZAE 130.32 ETE 186.86 ZAC 58.30 ETC 161.29 CLP 29.03

PLANETOCENTRIC CONIC

C3 255.009 VHL 15.969 DLA 5.53 RAL 5.59 RAD 6571.5 VEL 19.399 PTH 3.10 VHP 25.251 DPA -17.81 RAP 325.95 ECC 5.1968
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 38 10 2940.29 -28.23 92.08 270.15 87.67 7 27 10 2340.3 -28.25 83.41
 90.00 19 58 45 5240.09 26.63 236.08 264.45 80.00 21 26 5 4640.1 24.98 227.80
 100.00 8 2 7 2669.50 -29.82 72.24 270.22 87.85 8 46 36 2069.5 -29.80 63.43
 100.00 21 17 28 4986.11 28.20 217.09 264.13 79.64 22 40 34 4386.1 26.48 208.71
 110.00 9 16 21 2437.19 -34.15 54.77 270.39 88.32 9 56 58 1837.2 -34.00 45.53
 110.00 22 19 44 4791.19 32.45 201.35 263.19 78.60 23 39 35 4191.2 30.54 192.65

DIFFERENTIAL CORRECTIONS

TDE -.9860 TRA-2.3639 TC3 -.1471 BAU .5038
 RDE -1.1786 RRA .6258 RC3 -.0138 FAU .01087
 FDE .4690 FRA .9032 FC3 -.0369 BSP 2717
 BOE 1.5366 BRA 2.4454 BC3 .1478 FSP -74

MID-COURSE EXECUTION ACCURACY

SGT 1035.4 SGR 481.3 SG3 33.3
 RRT -.0441 RRF .0403 RTF -.7064
 SGB 1141.8 R23 -.0006 R13 .7064
 SG1 1035.7 SG2 480.7 THA 178.50

ORBIT DETERMINATION ACCURACY

ST 436.7 SR 428.2 SS 424.6
 CRT .7075 CRS .7745 CST .9937
 LSA 700.7 MSA 251.3 SSA 15.1
 EL1 565.2 EL2 233.8 ALF 44.21

LAUNCH DATE NOV 27 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

DISTANCE 159.871

RL 147.60 LAL .00 LOL 64.82 VL 19.285 GAL 25.11 AZL 87.21 MCA 51.69 SMA 93.04 ECC .67973 INC 2.7872 V1 30.186
 RP 107.50 LAP 2.19 LOP 116.48 VP 32.291 GAP -42.06 AZP 88.27 TAL 166.48 TAP 218.17 RCA 29.80 APO 156.28 V2 35.251
 RC 79.887 GL 3.17 GP -.86 ZAL 56.39 ZAP 27.62 ETS 177.08 ZAE 130.47 ETE 187.31 ZAC 60.04 ETC 161.72 CLP 27.60

PLANETOCENTRIC CONIC

C3 235.160 VHL 15.335 DLA 6.28 RAL 6.54 RAD 6571.4 VEL 18.881 PTH 3.07 VHP 24.344 DPA -17.26 RAP 327.78 ECC 4.8701
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 36 11 2953.03 -28.19 93.01 270.64 87.21 7 25 24 2353.0 -28.20 84.35
 90.00 20 8 17 5203.18 26.19 233.62 264.24 78.83 21 35 3 4605.2 24.39 225.41
 100.00 8 0 31 2681.04 -29.79 73.09 270.73 87.40 8 45 12 2081.0 -29.83 64.29
 100.00 21 26 39 4952.40 27.76 214.68 263.88 78.45 22 49 11 4352.4 25.89 206.38
 110.00 9 15 36 2446.08 -34.13 55.46 270.93 87.91 9 56 22 1846.1 -34.04 46.22
 110.00 22 28 4 4760.12 32.01 199.03 262.83 77.30 23 47 24 4160.1 29.93 190.44

DIFFERENTIAL CORRECTIONS

TDE -.9931 TRA-2.3874 TC3 -.1555 BAU .4914
 RDE -1.1375 RRA .6032 RC3 -.0155 FAU .01094
 FDE .4872 FRA .9338 FC3 -.0403 BSP 2890
 BOE 1.5100 BRA 2.4624 BC3 .1563 FSP -81

MID-COURSE EXECUTION ACCURACY

SGT 1081.9 SGR 484.1 SG3 35.8
 RRT -.0440 RRF .0405 RTF -.7220
 SGB 1185.3 R23 -.0008 R13 .7220
 SG1 1082.2 SG2 483.5 THA 178.59

ORBIT DETERMINATION ACCURACY

ST 458.7 SR 430.4 SS 442.4
 CRT .7062 CRS .7754 CST .9935
 LSA 725.0 MSA 255.8 SSA 15.3
 EL1 581.2 EL2 240.5 ALF 42.43

LAUNCH DATE NOV 27 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 165.852

RL 147.60 LAL .00 LOL 64.82 VL 19.854 GAL 24.03 AZL 87.15 MCA 54.94 SMA 94.52 ECC .65489 INC 2.8473 V1 30.186
 RP 107.49 LAP 2.33 LOP 119.73 VP 32.637 GAP -40.28 AZP 88.36 TAL 165.58 TAP 220.52 RCA 32.62 APO 156.42 V2 35.254
 RC 77.721 GL 3.51 GP -.88 ZAL 55.28 ZAP 26.21 ETS 177.02 ZAE 130.70 ETE 187.79 ZAC 61.81 ETC 162.13 CLP 26.19

PLANETOCENTRIC CONIC

C3 216.915 VHL 14.728 DLA 7.03 RAL 7.44 RAD 6571.2 VEL 18.391 PTH 3.04 VHP 23.465 DPA -16.70 RAP 329.60 ECC 4.5699
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 3 2965.16 -28.15 93.89 271.04 86.77 7 23 28 2365.2 -28.30 85.23
 90.00 20 17 39 5169.81 25.70 231.14 263.96 77.69 21 43 49 4569.8 23.75 223.02
 100.00 7 58 45 2691.96 -29.75 73.90 271.14 86.97 8 43 37 2092.0 -29.86 65.10
 100.00 21 35 38 4918.25 27.27 212.26 263.57 77.26 22 57 36 4318.2 25.24 204.04
 110.00 9 14 41 2454.33 -34.10 56.11 271.38 87.53 9 55 35 1854.3 -34.07 46.86
 110.00 22 36 12 4728.63 31.51 196.71 262.42 76.01 23 55 0 4128.6 29.27 188.22

DIFFERENTIAL CORRECTIONS

TDE -1.0027 TRA-2.4124 TC3 -.1645 BAU .4797
 RDE -1.0964 RRA .5803 RC3 -.0175 FAU .01102
 FDE .5062 FRA .9654 FC3 -.0440 BSP 3010
 BOE 1.4858 BRA 2.4813 BC3 .1654 FSP -88

MID-COURSE EXECUTION ACCURACY

SGT 1131.9 SGR 486.1 SG3 38.5
 RRT -.0432 RRF .0403 RTF -.7369
 SGB 1231.9 R23 -.0013 R13 .7370
 SG1 1132.1 SG2 485.6 THA 178.70

ORBIT DETERMINATION ACCURACY

ST 482.6 SR 432.0 SS 460.9
 CRT .7055 CRS .7764 CST .9933
 LSA 751.1 MSA 259.8 SSA 15.5
 EL1 598.8 EL2 246.7 ALF 40.53

LAUNCH DATE NOV 27 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 171.928

RL 147.60 LAL .00 LOL 64.82 VL 20.391 GAL 23.00 AZL 87.10 HCA 58.19 SMA 96.00 ECC .63050 INC 2.9027 V1 30.186
 RP 107.48 LAP 2.47 LOP 122.97 VP 32.969 GAP -38.57 AZP 88.47 TAL 164.71 TAP 222.89 RCA 35.47 APO 156.52 V2 35.256
 RC 75.571 GL 3.85 GP -.91 ZAL 54.22 ZAP 24.82 ETS 176.94 ZAE 131.00 ETE 188.29 ZAC 63.60 ETC 162.52 CLP 24.80

PLANETOCENTRIC CONIC

C3 200.142 VHL 14.147 DLA 7.77 RAL 8.30 RAD 6571.1 VEL 17.929 PTH 3.00 VHP 22.611 DPA -16.12 RAP 331.44 ECC 4.2938
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 42 2976.72 -28.10 94.74 271.34 86.35 7 21 19 2376.7 -28.31 86.08
 90.00 20 26 51 5133.94 25.16 228.66 263.63 76.56 21 52 25 4533.9 23.06 220.61
 100.00 7 56 48 2702.29 -29.71 74.67 271.46 86.57 8 41 50 2102.3 -29.87 65.87
 100.00 21 44 27 4883.61 26.73 209.82 263.21 76.09 23 5 50 4283.6 24.55 201.70
 110.00 9 13 35 2461.97 -34.08 56.70 271.74 87.18 9 54 37 1862.0 -34.10 47.46
 110.00 22 44 9 4696.69 30.96 194.38 261.95 74.73 24 2 25 4096.7 28.56 186.01

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0306 TRA -2.4549 TC3 -.1773 BAU .4773 SGT 1197.0 SGR 487.4 SG3 41.5 ST 514.8 SR 432.8 SS 481.8
 RDE -1.0552 RRA .5573 RC3 -.0195 FAU .01101 RRT -.0386 RRF .0390 RTF -.7506 CRT .7083 CRS .7780 CST .9935
 FDE .5282 FRA .9999 FC3 -.0476 BSP 2699 SGB 1292.4 R23 -.0043 R13 .7506 LSA 784.3 MSA 262.9 SSA 15.8
 BDE 1.4750 BRA 2.5174 BC3 .1784 FSP -90 SGI 1197.2 SG2 487.0 THA 178.92 EL1 623.5 EL2 252.3 ALF 38.08

LAUNCH DATE NOV 27 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 178.080

RL 147.60 LAL .00 LOL 64.82 VL 20.896 GAL 22.02 AZL 87.05 HCA 61.43 SMA 97.47 ECC .60657 INC 2.9544 V1 30.186
 RP 107.48 LAP 2.59 LOP 126.22 VP 33.286 GAP -38.94 AZP 88.59 TAL 163.84 TAP 225.28 RCA 38.35 APO 156.59 V2 35.258
 RC 73.439 GL 4.21 GP -.95 ZAL 53.22 ZAP 23.44 ETS 176.83 ZAE 131.39 ETE 188.81 ZAC 65.40 ETC 162.89 CLP 23.42

PLANETOCENTRIC CONIC

C3 184.682 VHL 13.589 DLA 8.51 RAL 9.11 RAD 6571.0 VEL 17.492 PTH 2.97 VHP 21.781 DPA -15.53 RAP 333.28 ECC 4.0391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 10 2987.66 -28.05 95.53 271.55 85.95 7 18 57 2387.7 -28.32 86.88
 90.00 20 35 51 5097.54 24.56 226.16 263.24 75.44 22 0 49 4497.5 22.32 218.20
 100.00 7 54 38 2711.98 -29.67 75.39 271.67 86.20 8 39 50 2112.0 -29.88 66.59
 100.00 21 53 4 4848.44 26.13 207.38 262.78 74.94 23 13 52 4248.4 23.81 199.35
 110.00 9 12 18 2468.95 -34.06 57.25 271.99 86.86 9 53 27 1868.9 -34.12 48.00
 110.00 22 51 54 4664.24 30.36 192.05 261.42 73.47 24 9 38 4064.2 27.79 183.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9579 TRA -2.3955 TC3 -.1691 BAU .4210 SGT 1190.5 SGR 488.2 SG3 44.4 ST 507.1 SR 433.4 SS 493.0
 RDE -1.0150 RRA .5330 RC3 -.0220 FAU .01161 RRT -.0546 RRF .0431 RTF -.7674 CRT .6916 CRS .7769 CST .9911
 FDE .5383 FRA 1.0228 FC3 -.0544 BSP 4800 SGB 1286.7 R23 .0072 R13 .7674 LSA 784.9 MSA 268.0 SSA 15.4
 BDE 1.3956 BRA 2.4540 BC3 .1703 FSP -120 SGI 1190.9 SG2 487.4 THA 178.46 EL1 615.1 EL2 258.1 ALF 38.57

LAUNCH DATE NOV 27 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 184.322

RL 147.60 LAL .00 LOL 64.82 VL 21.372 GAL 21.09 AZL 87.00 HCA 64.68 SMA 98.93 ECC .58325 INC 3.0030 V1 30.186
 RP 107.48 LAP 2.71 LOP 129.47 VP 33.587 GAP -35.38 AZP 88.71 TAL 163.00 TAP 227.68 RCA 41.23 APO 156.63 V2 35.259
 RC 71.328 GL 4.59 GP -.98 ZAL 52.25 ZAP 22.08 ETS 176.70 ZAE 131.86 ETE 189.38 ZAC 67.22 ETC 163.24 CLP 22.06

PLANETOCENTRIC CONIC

C3 170.470 VHL 13.056 DLA 9.25 RAL 9.88 RAD 6570.8 VEL 17.082 PTH 2.93 VHP 20.978 DPA -14.91 RAP 335.12 ECC 3.8055
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 25 2998.18 -28.00 96.30 271.67 85.57 7 16 23 2398.2 -28.32 87.65
 90.00 20 44 45 5060.55 23.90 223.65 262.80 74.35 22 9 5 4460.6 21.52 215.78
 100.00 7 52 17 2721.24 -29.63 76.07 271.81 85.84 8 37 38 2121.2 -29.89 67.27
 100.00 22 1 34 4812.73 25.47 204.93 262.31 73.81 23 21 46 4212.7 23.01 197.00
 110.00 9 10 50 2475.44 -34.03 57.75 272.15 86.56 9 52 5 1875.4 -34.13 48.51
 110.00 22 59 30 4631.29 29.69 189.71 260.85 72.23 24 16 41 4031.3 26.98 181.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0080 TRA -2.4577 TC3 -.1868 BAU .4294 SGT 1275.8 SGR 488.0 SG3 47.9 ST 550.8 SR 432.8 SS 517.4
 RDE -.9740 RRA .5099 RC3 -.0244 FAU .01151 RRT -.0442 RRF .0401 RTF -.7787 CRT .6998 CRS .7792 CST .9921
 FDE .5647 FRA 1.0620 FC3 -.0585 BSP 3968 SGB 1365.9 R23 .0003 R13 .7788 LSA 827.9 MSA 269.5 SSA 15.8
 BDE 1.4017 BRA 2.5100 BC3 .1884 FSP -118 SGI 1276.0 SG2 487.4 THA 178.86 EL1 649.6 EL2 262.2 ALF 35.41

LAUNCH DATE NOV 27 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 190.635

RL 147.60 LAL .00 LOL 64.82 VL 21.820 GAL 20.20 AZL 86.95 HCA 67.93 SMA 100.37 ECC .56053 INC 3.0491 V1 30.186
 RP 107.48 LAP 2.83 LOP 132.72 VP 33.874 GAP -33.88 AZP 88.85 TAL 162.18 TAP 230.10 RCA 44.11 APO 156.64 V2 35.259
 RC 69.241 GL 4.98 GP -1.02 ZAL 51.34 ZAP 20.73 ETS 176.53 ZAE 132.42 ETE 189.97 ZAC 69.05 ETC 163.57 CLP 20.70

PLANETOCENTRIC CONIC

C3 157.390 VHL 12.546 DLA 9.98 RAL 10.61 RAD 6570.7 VEL 16.695 PTH 2.89 VHP 20.197 DPA -14.28 RAP 336.97 ECC 3.5902
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 23 26 3008.23 -27.94 97.03 271.69 85.21 7 13 35 2408.2 -28.31 88.38
 90.00 20 53 29 5022.96 23.19 221.12 262.31 73.28 22 17 12 4423.0 20.68 213.35
 100.00 7 49 43 2729.99 -29.58 76.72 271.84 85.50 8 35 13 2130.0 -29.89 67.93
 100.00 22 9 54 4776.43 24.76 202.47 261.78 72.70 23 29 30 4176.4 22.16 194.64
 110.00 9 9 9 2481.39 -34.01 58.21 272.22 86.28 9 50 31 1881.4 -34.15 48.97
 110.00 23 6 57 4597.80 28.98 187.37 260.24 71.02 24 23 34 3997.8 26.11 179.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0212 TRA -2.4815 TC3 -.1967 BAU .4179 SGT 1336.2 SGR 487.1 SG3 51.6 ST 580.5 SR 431.7 SS 538.7
 RDE -.9336 RRA .4863 RC3 -.0271 FAU .01165 RRT -.0416 RRF .0389 RTF -.7910 CRT .7005 CRS .7806 CST .9920
 FDE .5874 FRA 1.0976 FC3 -.0641 BSP 4023 SGB 1422.2 R23 -.0010 R13 .7910 LSA 860.0 MSA 271.3 SSA 16.0
 BDE 1.3836 BRA 2.5287 BC3 .1986 FSP -127 SGI 1336.4 SG2 486.6 THA 179.00 EL1 672.8 EL2 265.8 ALF 33.39

LAUNCH DATE NOV 27 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 197.015

RL 147.60 LAL .00 LOL 64.82 VL 22.241 GAL 19.35 AZL 86.91 MCA 71.18 SMA 101.80 ECC .53845 INC 3.0931 V1 30.186
 RP 107.48 LAP 2.93 LOP 135.97 VP 34.146 GAP -32.44 AZP 89.00 TAL 161.37 TAP 232.55 RCA 46.99 APO 156.62 V2 35.258
 RC 67.184 GL 5.39 GP -1.07 ZAL 50.47 ZAP 19.39 ETS 176.31 ZAE 133.07 ETE 190.61 ZAC 70.90 ETC 163.89 CLP 19.36

PLANETOCENTRIC CONIC

C3 145.346 VHL 12.056 CLA 10.70 RAL 11.28 RAD 6570.6 VEL 16.330 PTH 2.86 VHP 19.438 DPA -13.64 RAP 338.82 ECC 3.3920
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 20 13 3017.88 -27.89 97.73 271.63 84.86 7 10 31 2417.9 -28.30 89.09
 90.00 21 2 6 4984.71 22.42 218.58 261.77 72.23 22 25 11 4384.7 19.78 210.91
 100.00 7 46 54 2738.31 -29.54 77.33 271.79 85.18 8 32 33 2138.3 -29.89 68.54
 100.00 22 18 6 4739.51 23.99 200.00 261.21 71.61 23 37 5 4139.5 21.26 192.27
 110.00 9 7 16 2486.84 -33.98 58.64 272.19 86.03 9 48 43 1886.8 -34.16 49.40
 110.00 23 14 14 4563.75 28.20 185.02 259.57 69.83 24 30 17 3963.7 25.19 177.14

DIFFERENTIAL CORRECTIONS

TDE -1.0258 TRA -2.4951 TC3 -.2044 BAU .4014
 RDE -.8935 RRA .4627 RC3 -.0300 FAU .01187
 FDE .6101 FRA 1.1332 FC3 -.0707 BSP 4293
 BDE 1.3604 BRA 2.5376 BC3 .2066 FSP -139

MID-COURSE EXECUTION ACCURACY

SGT 1391.7 SGR 485.4 SG3 55.6
 RRT -.0406 RRF .0381 RTF -.8031
 SGB 1473.9 R23 -.0010 R13 .8031
 SG1 1391.9 SG2 484.9 THA 179.08

ORBIT DETERMINATION ACCURACY

ST 607.4 SR 429.9 SS 559.9
 CRT .6998 CRS .7820 CST .9917
 LSA 890.2 MSA 272.8 SSA 16.1
 EL1 693.9 EL2 268.8 ALF 31.63

LAUNCH DATE NOV 27 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 203.457

RL 147.60 LAL .00 LOL 64.82 VL 22.638 GAL 18.54 AZL 86.86 MCA 74.42 SMA 103.21 ECC .51704 INC 3.1354 V1 30.186
 RP 107.48 LAP 3.02 LOP 139.22 VP 34.404 GAP -31.05 AZP 89.16 TAL 160.59 TAP 235.02 RCA 49.85 APO 156.58 V2 35.257
 RC 65.159 GL 5.82 GP -1.12 ZAL 49.66 ZAP 18.06 ETS 176.04 ZAE 133.81 ETE 191.29 ZAC 72.75 ETC 164.19 CLP 18.02

PLANETOCENTRIC CONIC

C3 134.261 VHL 11.587 CLA 11.43 RAL 11.91 RAD 6570.4 VEL 15.987 PTH 2.82 VHP 18.701 DPA -12.99 RAP 340.67 ECC 3.2096
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 16 45 3027.21 -27.83 98.41 271.47 84.53 7 7 12 2427.2 -28.29 89.77
 90.00 21 10 36 4945.78 21.58 216.03 261.19 71.21 22 33 2 4345.8 18.82 208.45
 100.00 7 43 52 2746.27 -29.49 77.92 271.65 84.87 8 29 38 2146.3 -29.89 69.14
 100.00 22 26 11 4701.96 23.16 197.52 260.60 70.56 23 44 33 4102.0 20.30 189.89
 110.00 9 5 10 2491.86 -33.96 59.03 272.08 85.81 9 46 42 1891.9 -34.16 49.79
 110.00 23 21 22 4529.13 27.36 182.68 258.87 68.66 24 36 51 3929.1 24.22 174.92

DIFFERENTIAL CORRECTIONS

TDE -1.0352 TRA -2.5114 TC3 -.2131 BAU .3871
 RDE -.8537 RRA .4393 RC3 -.0331 FAU .01209
 FDE .6346 FRA 1.1707 FC3 -.0780 BSP 4454
 BDE 1.3418 BRA 2.5495 BC3 .2156 FSP -150

MID-COURSE EXECUTION ACCURACY

SGT 1452.9 SGR 482.9 SG3 59.9
 RRT -.0382 RRF .0367 RTF -.8143
 SGB 1531.1 R23 -.0018 R13 .8144
 SG1 1453.1 SG2 482.5 THA 179.18

ORBIT DETERMINATION ACCURACY

ST 637.7 SR 427.4 SS 582.4
 CRT .7003 CRS .7835 CST .9915
 LSA 923.8 MSA 273.6 SSA 16.2
 EL1 718.3 EL2 270.9 ALF 29.79

LAUNCH DATE NOV 27 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 209.956

RL 147.60 LAL .00 LOL 64.82 VL 23.011 GAL 17.76 AZL 86.82 MCA 77.67 SMA 104.60 ECC .49633 INC 3.1764 V1 30.186
 RP 107.49 LAP 3.10 LOP 142.47 VP 34.649 GAP -29.72 AZP 89.32 TAL 159.84 TAP 237.51 RCA 52.68 APO 156.51 V2 35.254
 RC 63.173 GL 6.26 GP -1.17 ZAL 48.89 ZAP 16.73 ETS 175.69 ZAE 134.66 ETE 192.02 ZAC 74.62 ETC 164.47 CLP 16.69

PLANETOCENTRIC CONIC

C3 124.058 VHL 11.138 CLA 12.16 RAL 12.50 RAD 6570.3 VEL 15.665 PTH 2.78 VHP 17.985 DPA -12.33 RAP 342.51 ECC 3.0417
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 0 3036.30 -27.77 99.06 271.23 84.20 7 3 36 2436.3 -28.28 90.44
 90.00 21 19 1 4906.13 20.69 213.47 260.57 70.23 22 40 47 4306.1 17.81 205.98
 100.00 7 40 33 2753.93 -29.44 78.48 271.42 84.58 8 26 27 2153.9 -29.88 69.71
 100.00 22 34 9 4663.73 22.27 195.02 259.95 69.53 23 51 53 4063.7 19.29 187.50
 110.00 9 2 49 2496.51 -33.93 59.39 271.87 85.59 9 44 26 1896.5 -34.17 50.15
 110.00 23 28 22 4493.92 26.47 180.33 258.13 67.54 24 43 16 3893.9 23.19 172.70

DIFFERENTIAL CORRECTIONS

TDE -1.0443 TRA -2.5255 TC3 -.2215 BAU .3723
 RDE -.8144 RRA .4161 RC3 -.0365 FAU .01234
 FDE .6606 FRA 1.2096 FC3 -.0861 BSP 4628
 BDE 1.3243 BRA 2.5596 BC3 .2245 FSP -163

MID-COURSE EXECUTION ACCURACY

SGT 1515.9 SGR 479.6 SG3 64.5
 RRT -.0356 RRF .0352 RTF -.8250
 SGB 1590.0 R23 -.0026 R13 .8251
 SG1 1516.0 SG2 479.3 THA 179.28

ORBIT DETERMINATION ACCURACY

ST 669.1 SR 424.1 SS 605.8
 CRT .7009 CRS .7852 CST .9913
 LSA 958.8 MSA 273.6 SSA 16.3
 EL1 744.0 EL2 272.0 ALF 28.02

LAUNCH DATE NOV 27 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 216.507

RL 147.60 LAL .00 LOL 64.82 VL 23.362 GAL 17.02 AZL 86.78 MCA 80.92 SMA 105.96 ECC .47633 INC 3.2164 V1 30.186
 RP 107.50 LAP 3.18 LOP 145.72 VP 34.880 GAP -28.43 AZP 89.49 TAL 159.11 TAP 240.03 RCA 55.49 APO 156.43 V2 35.251
 RC 61.231 GL 6.72 GP -1.22 ZAL 48.17 ZAP 15.42 ETS 175.24 ZAE 135.61 ETE 192.81 ZAC 76.49 ETC 164.74 CLP 15.37

PLANETOCENTRIC CONIC

C3 114.670 VHL 10.708 CLA 12.88 RAL 13.03 RAD 6570.2 VEL 15.363 PTH 2.75 VHP 17.290 DPA -11.66 RAP 344.36 ECC 2.8872
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 8 58 3045.22 -27.70 99.71 270.90 83.89 6 59 43 2445.2 -28.26 91.09
 90.00 21 27 21 4865.75 19.74 210.89 259.91 69.28 22 48 26 4265.7 16.75 203.49
 100.00 7 36 58 2761.38 -29.39 79.03 271.10 84.30 8 23 0 2161.4 -29.87 70.26
 100.00 22 42 1 4624.82 21.33 192.52 259.25 68.54 23 59 6 4024.8 18.22 185.10
 110.00 9 0 14 2500.85 -33.91 59.73 271.58 85.39 9 41 55 1900.8 -34.17 50.49
 110.00 23 35 15 4458.12 25.52 177.98 257.36 66.44 24 49 33 3858.1 22.11 170.49

DIFFERENTIAL CORRECTIONS

TDE -1.0506 TRA -2.5346 TC3 -.2286 BAU .3558
 RDE -.7756 RRA .3932 RC3 -.0400 FAU .01264
 FDE .6877 FRA 1.2497 FC3 -.0954 BSP 4874
 BDE 1.3058 BRA 2.5649 BC3 .2321 FSP -178

MID-COURSE EXECUTION ACCURACY

SGT 1578.3 SGR 475.5 SG3 69.5
 RRT -.0333 RRF .0336 RTF -.8354
 SGB 1648.3 R23 -.0030 R13 .8354
 SG1 1578.3 SG2 475.2 THA 179.37

ORBIT DETERMINATION ACCURACY

ST 700.3 SR 420.0 SS 629.9
 CRT .7014 CRS .7869 CST .9911
 LSA 994.3 MSA 273.1 SSA 16.4
 EL1 769.8 EL2 272.3 ALF 26.36

LAUNCH DATE NOV 27 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 23.692 GAL 16.31 AZL 86.74 MCA 84.16 SMA 107.29 ECC .45705 INC 3.2556 V1 30.186
 RP 107.51 LAP 3.24 LOP 148.97 VP 35.098 GAP -27.20 AZP 89.67 TAL 158.40 TAP 242.57 RCA 58.25 APO 156.32 V2 35.248
 RC 59.338 GL 7.20 GP -1.29 ZAL 47.51 ZAP 14.11 ETS 174.67 ZAE 136.68 ETE 193.67 ZAC 78.37 ETC 164.99 CLP 14.05

PLANETOCENTRIC CONIC
 C3 106.034 VHL 10.297 DLA 13.61 RAL 13.53 RAD 6570.0 VEL 15.079 PTH 2.71 VHP 16.615 DPA -10.98 RAP 346.19 ECC 2.7450
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 36 3054.08 -27.64 100.35 270.48 83.57 6 55 31 2454.1 -28.24 91.74
 90.00 21 35 37 4824.59 18.73 208.29 259.21 68.37 22 56 1 4224.6 15.63 200.99
 100.00 7 33 6 2768.70 -29.34 79.57 270.69 84.02 8 19 15 2168.7 -29.86 70.80
 100.00 22 49 48 4585.20 20.32 190.01 258.53 67.59 24 6 14 3985.2 17.10 182.69
 110.00 8 57 23 2504.95 -33.89 60.04 271.20 85.21 9 39 8 1904.9 -34.18 50.81
 110.00 23 42 0 4421.72 24.50 175.64 256.56 65.39 24 55 42 3821.7 20.98 168.27

DIFFERENTIAL CORRECTIONS
 TOE-1.0573 TRA-2.5417 TC3 -.2351 BAU .3391 SGT 1642.5 SGR 470.6 SG3 75.0 ST 732.7 SR 415.1 SS 655.1
 RDE -.7372 RRA .3707 RC3 -.0438 FAU .01297 RRT -.0308 RRF .0319 RTF -.8451 CRT .7021 CRS .7888 CST .9909
 FDE .7166 FRA 1.2915 FC3 -.1059 BSP 5120 SGB 1708.6 R23 -.0036 R13 .8451 LSA 1031.5 MSA 272.0 SSA 16.5
 BOE 1.2889 BRA 2.5686 BC3 .2392 FSP -194 SG1 1642.6 SG2 470.4 THA 179.45 EL1 797.1 EL2 271.7 ALF 24.76

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 24.001 GAL 15.62 AZL 86.71 MCA 87.41 SMA 108.58 ECC .43851 INC 3.2944 V1 30.186
 RP 107.52 LAP 3.29 LOP 152.23 VP 35.303 GAP -26.00 AZP 89.85 TAL 157.73 TAP 245.14 RCA 60.97 APO 156.20 V2 35.243
 RC 57.501 GL 7.71 GP -1.36 ZAL 46.89 ZAP 12.80 ETS 175.93 ZAE 137.86 ETE 194.62 ZAC 80.25 ETC 165.23 CLP 12.73

PLANETOCENTRIC CONIC
 C3 98.093 VHL 9.904 DLA 14.34 RAL 13.97 RAD 6569.9 VEL 14.813 PTH 2.68 VHP 15.960 DPA -10.30 RAP 348.03 ECC 2.6144
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 59 55 3063.00 -27.57 100.99 269.99 83.26 6 50 58 2463.0 -28.21 92.39
 90.00 21 43 50 4782.64 17.66 205.68 258.49 67.50 23 3 33 4182.6 14.45 198.47
 100.00 7 28 55 2776.00 -29.29 80.11 270.21 83.74 8 15 11 2176.0 -29.85 71.35
 100.00 22 57 32 4544.87 19.25 187.49 257.78 66.68 24 13 17 3944.9 15.93 180.27
 110.00 8 54 17 2508.90 -33.86 60.35 270.74 85.03 9 36 5 1908.9 -34.18 51.12
 110.00 23 48 39 4384.74 23.44 173.30 255.73 64.37 25 1 44 3784.7 19.79 166.05

DIFFERENTIAL CORRECTIONS
 TOE-1.0638 TRA-2.5462 TC3 -.2410 BAU .3222 SGT 1708.2 SGR 464.8 SG3 80.9 ST 766.1 SR 409.5 SS 681.5
 RDE -.6995 RRA .3487 RC3 -.0478 FAU .01335 RRT -.0280 RRF .0301 RTF -.8544 CRT .7032 CRS .7908 CST .9907
 FDE .7475 FRA 1.3351 FC3 -.1178 BSP 5375 SGB 1770.3 R23 -.0042 R13 .8544 LSA 1070.4 MSA 270.2 SSA 16.6
 BOE 1.2732 BRA 2.5700 BC3 .2457 FSP -211 SG1 1708.2 SG2 464.7 THA 179.53 EL1 825.6 EL2 270.2 ALF 23.23

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 24.292 GAL 14.97 AZL 86.67 MCA 90.65 SMA 109.85 ECC .42070 INC 3.3330 V1 30.186
 RP 107.54 LAP 3.33 LOP 155.47 VP 35.496 GAP -24.85 AZP 90.04 TAL 157.09 TAP 247.74 RCA 63.63 APO 156.06 V2 35.238
 RC 55.726 GL 8.23 GP -1.43 ZAL 46.33 ZAP 11.50 ETS 172.97 ZAE 139.15 ETE 195.65 ZAC 82.13 ETC 165.46 CLP 11.41

PLANETOCENTRIC CONIC
 C3 90.795 VHL 9.529 DLA 15.07 RAL 14.36 RAD 6569.8 VEL 14.565 PTH 2.64 VHP 15.324 DPA -9.61 RAP 349.86 ECC 2.4943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 54 52 3072.08 -27.49 101.65 269.41 82.94 6 46 4 2472.1 -28.19 93.05
 90.00 21 52 2 4739.86 16.52 203.05 257.74 66.67 23 11 2 4139.9 13.22 195.93
 100.00 7 24 23 2783.38 -29.23 80.65 269.65 83.46 8 10 47 2183.4 -29.83 71.89
 100.00 23 5 12 4503.79 18.13 184.96 257.00 65.82 24 20 16 3903.8 14.71 177.83
 110.00 8 50 52 2512.78 -33.84 60.65 270.20 84.85 9 32 45 1912.8 -34.18 51.42
 110.00 23 55 12 4347.16 22.31 170.96 254.88 63.40 25 7 40 3747.2 18.56 163.84

DIFFERENTIAL CORRECTIONS
 TOE-1.0711 TRA-2.5488 TC3 -.2460 BAU .3053 SGT 1775.9 SGR 458.3 SG3 87.4 ST 801.1 SR 403.0 SS 709.3
 RDE -.6624 RRA .3272 RC3 -.0521 FAU .01376 RRT -.0250 RRF .0282 RTF -.8631 CRT .7046 CRS .7930 CST .9905
 FDE .7808 FRA 1.3809 FC3 -.1312 BSP 5626 SGB 1834.0 R23 -.0051 R13 .8632 LSA 1111.4 MSA 267.7 SSA 16.6
 BOE 1.2593 BRA 2.5697 BC3 .2515 FSP -231 SG1 1775.9 SG2 458.1 THA 179.60 EL1 855.8 EL2 267.6 ALF 21.75

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 24.565 GAL 14.35 AZL 86.63 MCA 93.90 SMA 111.07 ECC .40362 INC 3.3716 V1 30.186
 RP 107.56 LAP 3.36 LOP 158.72 VP 35.678 GAP -23.74 AZP 90.23 TAL 156.48 TAP 250.37 RCA 66.24 APO 155.90 V2 35.232
 RC 54.021 GL 8.78 GP -1.52 ZAL 45.82 ZAP 10.20 ETS 171.68 ZAE 140.57 ETE 196.80 ZAC 84.01 ETC 165.67 CLP 10.09

PLANETOCENTRIC CONIC
 C3 84.093 VHL 9.170 DLA 15.80 RAL 14.71 RAD 6569.6 VEL 14.333 PTH 2.61 VHP 14.706 DPA -8.93 RAP 351.68 ECC 2.3840
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 26 3081.48 -27.41 102.32 268.77 82.61 6 40 47 2481.5 -28.15 93.73
 90.00 22 0 15 4696.22 15.33 200.41 256.97 65.90 23 18 31 4096.2 11.94 193.37
 100.00 7 19 31 2790.97 -29.17 81.20 269.01 83.17 8 6 2 2191.0 -29.81 72.46
 100.00 23 12 51 4461.96 16.94 182.42 256.20 65.00 24 27 13 3862.0 13.43 175.39
 110.00 8 47 10 2516.70 -33.82 60.95 269.59 84.67 9 29 7 1916.7 -34.18 51.73
 110.00 0 5 36 4309.00 21.13 168.63 254.01 62.48 1 17 25 3709.0 17.27 161.62

DIFFERENTIAL CORRECTIONS
 TOE-1.0812 TRA-2.5514 TC3 -.2513 BAU .2896 SGT 1847.6 SGR 450.9 SG3 94.4 ST 838.8 SR 395.6 SS 739.0
 RDE -.6259 RRA .3063 RC3 -.0565 FAU .01420 RRT -.0211 RRF .0260 RTF -.8713 CRT .7069 CRS .7954 CST .9905
 FDE .8171 FRA 1.4296 FC3 -.1462 BSP 5819 SGB 1901.8 R23 -.0064 R13 .8713 LSA 1155.9 MSA 264.4 SSA 16.7
 BOE 1.2493 BRA 2.5697 BC3 .2576 FSP -250 SG1 1847.6 SG2 450.7 THA 179.69 EL1 889.0 EL2 264.0 ALF 20.31

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 249.857

RL 147.60 LAL .00 LOL 64.82 VL 24.821 GAL 13.75 AZL 86.59 MCA 97.14 SMA 112.26 ECC .38727 INC 3.4105 V1 30.186
 RP 107.58 LAP 3.38 LOP 161.97 VP 35.848 GAP -22.67 AZP 90.42 TAL 155.90 TAP 253.04 RCA 68.78 APO 155.73 V2 35.226
 RC 52.393 GL 9.35 GP -1.61 ZAL 45.37 ZAP 8.91 ETS 169.92 ZAE 142.11 ETE 198.09 ZAC 85.89 ETC 165.87 CLP 8.76

PLANETOCENTRIC CONIC

C3 77.940 VHL 8.828 OLA 16.54 RAL 15.01 RAD 6569.5 VEL 14.117 PTH 2.57 VHP 14.106 DPA -8.25 RAP 353.49 ECC 2.2827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 34 3091.33 -27.32 103.03 268.04 82.26 6 35 5 2491.3 -28.11 94.45
 90.00 22 8 29 4651.69 14.07 197.74 256.18 65.17 23 26 0 4051.7 10.61 190.78
 100.00 7 14 15 2798.90 -29.11 81.78 268.31 82.87 8 0 54 2198.9 -29.79 73.05
 100.00 23 20 29 4419.36 15.70 179.87 255.38 64.23 24 34 8 3819.4 12.10 172.92
 110.00 8 43 8 2520.76 -33.79 61.27 268.92 84.49 9 25 9 1920.8 -34.18 52.05
 110.00 0 12 0 4270.26 19.89 166.31 253.13 61.61 1 23 11 3670.3 15.94 159.41

DIFFERENTIAL CORRECTIONS

TOE -1.0892 TRA -2.5490 TC3 -.2544 BAU .2727
 ROE -.5901 RRA .2862 RC3 -.0612 FAU .01471
 FOE .8561 FRA 1.4805 FC3 -.1634 BSP 6072
 BOE 1.2388 BRA 2.5650 BC3 .2617 FSP -273

MID-COURSE EXECUTION ACCURACY

SGT 1918.3 SGR 442.6 SG3 102.1
 RRT -.0178 RRF .0241 RTF -.8791
 SGB 1968.7 R23 -.0076 R13 .8792
 SG1 1918.3 SG2 442.5 THA 179.75

ORBIT DETERMINATION ACCURACY

ST 876.3 SR 387.4 SS 770.0
 CRT .7090 CRS .7978 CST .9903
 LSA 1201.2 MSA 260.6 SSA 16.8
 EL1 922.3 EL2 259.6 ALF 18.96

LAUNCH DATE NOV 27 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 256.614

RL 147.60 LAL .00 LOL 64.82 VL 25.061 GAL 13.17 AZL 86.55 MCA 100.38 SMA 113.41 ECC .37165 INC 3.4500 V1 30.186
 RP 107.60 LAP 3.39 LOP 165.22 VP 36.008 GAP -21.63 AZP 90.62 TAL 155.35 TAP 255.73 RCA 71.26 APO 155.56 V2 35.219
 RC 50.852 GL 9.95 GP -1.72 ZAL 44.97 ZAP 7.62 ETS 167.44 ZAE 143.78 ETE 199.54 ZAC 87.76 ETC 166.06 CLP 7.43

PLANETOCENTRIC CONIC

C3 72.295 VHL 8.503 OLA 17.29 RAL 15.25 RAD 6569.4 VEL 13.916 PTH 2.54 VHP 13.525 DPA -7.58 RAP 355.30 ECC 2.1898
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 14 3101.83 -27.23 103.78 267.26 81.90 6 28 56 2501.8 -28.07 95.22
 90.00 22 16 46 4606.22 12.75 195.05 255.38 64.50 23 33 33 4006.2 9.22 188.16
 100.00 7 8 34 2807.32 -29.03 82.40 267.54 82.56 7 55 21 2207.3 -29.76 73.67
 100.00 23 28 8 4375.96 14.39 177.30 254.55 63.52 24 41 4 3776.0 10.72 170.44
 110.00 8 38 46 2525.08 -33.76 61.60 268.17 84.29 9 20 51 1925.1 -34.18 52.38
 110.00 0 18 21 4230.96 18.60 163.99 252.24 60.79 1 28 52 3631.0 14.57 157.20

DIFFERENTIAL CORRECTIONS

TOE -1.0976 TRA -2.5440 TC3 -.2560 BAU .2555
 ROE -.5550 RRA .2669 RC3 -.0660 FAU .01527
 FOE .8983 FRA 1.5343 FC3 -.1829 BSP 6333
 BOE 1.2299 BRA 2.5579 BC3 .2644 FSP -298

MID-COURSE EXECUTION ACCURACY

SGT 1990.0 SGR 433.5 SG3 110.5
 RRT -.0147 RRF .0225 RTF -.8866
 SGB 2036.7 R23 -.0089 R13 .8866
 SG1 1990.0 SG2 433.5 THA 179.81

ORBIT DETERMINATION ACCURACY

ST 915.0 SR 378.3 SS 802.8
 CRT .7114 CRS .8004 CST .9903
 LSA 1248.6 MSA 256.2 SSA 16.8
 EL1 957.0 EL2 254.2 ALF 17.67

LAUNCH DATE NOV 27 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 263.391

RL 147.60 LAL .00 LOL 64.82 VL 25.286 GAL 12.63 AZL 86.51 MCA 103.62 SMA 114.52 ECC .35674 INC 3.4902 V1 30.186
 RP 107.62 LAP 3.39 LOP 168.46 VP 36.157 GAP -20.63 AZP 90.82 TAL 154.84 TAP 258.46 RCA 73.66 APO 155.37 V2 35.211
 RC 49.405 GL 10.57 GP -1.83 ZAL 44.62 ZAP 6.36 ETS 163.80 ZAE 145.57 ETE 201.19 ZAC 89.63 ETC 166.24 CLP 6.09

PLANETOCENTRIC CONIC

C3 67.121 VHL 8.193 OLA 18.04 RAL 15.45 RAD 6569.3 VEL 13.729 PTH 2.51 VHP 12.961 DPA -6.92 RAP 357.09 ECC 2.1046
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 25 3113.16 -27.11 104.59 266.40 81.51 6 22 18 2513.2 -28.01 96.04
 90.00 22 25 10 4559.74 11.38 192.33 254.57 63.89 23 41 10 3959.7 7.78 185.50
 100.00 7 2 26 2816.40 -28.95 83.06 266.70 82.22 7 49 23 2216.4 -29.73 74.34
 100.00 23 35 50 4331.73 13.04 174.72 253.72 62.86 24 48 1 3731.7 9.30 167.93
 110.00 8 34 3 2529.79 -33.73 61.97 267.37 84.08 9 16 12 1929.8 -34.18 52.75
 110.00 0 24 39 4191.10 17.26 161.67 251.34 60.03 1 34 30 3591.1 13.15 154.98

DIFFERENTIAL CORRECTIONS

TOE -1.1068 TRA -2.5368 TC3 -.2564 BAU .2387
 ROE -.5206 RRA .2484 RC3 -.0711 FAU .01589
 FOE .9444 FRA 1.5914 FC3 -.2050 BSP 6587
 BOE 1.2231 BRA 2.5489 BC3 .2661 FSP -325

MID-COURSE EXECUTION ACCURACY

SGT 2063.2 SGR 423.7 SG3 119.7
 RRT -.0117 RRF .0213 RTF -.8936
 SGB 2106.3 R23 -.0104 R13 .8936
 SG1 2063.3 SG2 423.6 THA 179.86

ORBIT DETERMINATION ACCURACY

ST 955.3 SR 368.2 SS 837.7
 CRT .7141 CRS .8030 CST .9902
 LSA 1298.7 MSA 251.2 SSA 16.8
 EL1 993.3 EL2 247.9 ALF 16.44

LAUNCH DATE NOV 27 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 270.183

RL 147.60 LAL .00 LOL 64.82 VL 25.497 GAL 12.10 AZL 86.47 MCA 106.86 SMA 115.58 ECC .34252 INC 3.5316 V1 30.186
 RP 107.65 LAP 3.38 LOP 171.71 VP 36.297 GAP -19.66 AZP 91.03 TAL 154.36 TAP 261.22 RCA 75.99 APO 155.17 V2 35.202
 RC 48.064 GL 11.21 GP -1.96 ZAL 44.33 ZAP 5.12 ETS 158.12 ZAE 147.47 ETE 203.09 ZAC 91.48 ETC 166.41 CLP 4.73

PLANETOCENTRIC CONIC

C3 62.382 VHL 7.898 OLA 18.80 RAL 15.60 RAD 6569.2 VEL 13.555 PTH 2.48 VHP 12.413 DPA -6.27 RAP 358.88 ECC 2.0267
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 23 2 3125.54 -26.99 105.48 265.49 81.08 6 15 8 2525.5 -27.94 96.94
 90.00 22 33 43 4512.18 9.94 189.58 253.76 63.35 23 48 55 3912.2 6.28 182.81
 100.00 6 55 49 2826.32 -28.86 83.78 265.81 81.85 7 42 56 2226.3 -29.69 75.08
 100.00 23 43 36 4286.63 11.62 172.12 252.88 62.26 24 55 3 3686.6 7.82 165.39
 110.00 8 28 56 2535.03 -33.69 62.37 266.52 83.84 9 11 11 1935.0 -34.18 53.16
 110.00 0 30 55 4150.69 15.87 159.37 250.43 59.32 1 40 6 3550.7 11.69 152.76

DIFFERENTIAL CORRECTIONS

TOE -1.1163 TRA -2.5264 TC3 -.2549 BAU .2219
 ROE -.4868 RRA .2309 RC3 -.0762 FAU .01658
 FOE .9949 FRA 1.6521 FC3 -.2301 BSP 6847
 BOE 1.2179 BRA 2.5369 BC3 .2660 FSP -355

MID-COURSE EXECUTION ACCURACY

SGT 2136.8 SGR 413.0 SG3 129.8
 RRT -.0092 RRF .0208 RTF -.9002
 SGB 2176.4 R23 -.0122 R13 .9002
 SG1 2136.8 SG2 412.9 THA 179.89

ORBIT DETERMINATION ACCURACY

ST 996.6 SR 357.2 SS 874.8
 CRT .7170 CRS .8056 CST .9902
 LSA 1351.1 MSA 245.6 SSA 16.8
 EL1 1031.0 EL2 240.7 ALF 15.26

LAUNCH DATE NOV 27 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 25.694 GAL 11.60 AZL 86.43 MCA 110.10 SMA 116.61 ECC .32900 INC 3.5744 V1 30.186
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.426 GAP -18.72 AZP 91.23 TAL 153.92 TAP 264.01 RCA 78.24 APO 154.97 V2 35.194
 RC 46.839 GL 11.89 GP -2.11 ZAL 44.10 ZAP 3.97 ETS 148.64 ZAE 149.47 ETE 205.30 ZAC 93.33 ETC 166.57 CLP 3.36

PLANETOCENTRIC CONIC
 C3 58.047 VHL 7.619 CLA 19.57 RAL 15.69 RAD 6569.1 VEL 13.394 PTH 2.45 VHP 11.883 DPA -5.64 RAP .65 ECC 1.9553
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 15 2 3139.24 -26.84 106.45 264.52 80.61 6 7 22 2539.2 -27.86 97.93
 90.00 22 42 27 4463.43 8.44 186.78 252.95 62.87 23 56 51 3863.4 4.73 180.06
 100.00 6 48 40 2837.30 -28.75 84.58 264.86 81.44 7 35 58 2237.3 -29.63 75.89
 100.00 23 51 30 4240.59 10.15 169.49 252.04 61.73 25 2 11 3640.6 6.29 162.83
 110.00 8 23 24 2540.94 -33.65 62.83 265.61 83.58 9 5 45 1940.9 -34.17 53.62
 110.00 0 37 12 4109.73 14.44 157.06 249.53 58.67 1 45 42 3509.7 10.18 150.54

DIFFERENTIAL CORRECTIONS
 TDE-1.1266 TRA-2.5136 TC3 -.2515 BAU .2052 SGT 2211.2 SGR 401.5 SG3 140.8 ST 1039.3 SR 345.1 SS 914.4
 RDE -.4538 RRA .2145 RC3 -.0815 FAU .01734 RRT -.0076 RRF .0214 RTF -.9065 CRT 7200 CRS .8082 CST .9902
 FDE 1.0505 FRA 1.7169 FC3 -.2587 BSP 7106 SGB 2247.4 R23 -.0143 R13 .9065 LSA 1406.3 MSA 239.6 SSA 16.8
 BDE 1.2146 BRA 2.5227 BC3 .2644 FSP -388 SG1 2211.2 SG2 401.5 THA 179.92 EL1 1070.1 EL2 232.6 ALF 14.13

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 25.878 GAL 11.12 AZL 86.38 MCA 113.33 SMA 117.59 ECC .31616 INC 3.6189 V1 30.186
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.547 GAP -17.81 AZP 91.43 TAL 153.51 TAP 266.84 RCA 80.41 APO 154.76 V2 35.184
 RC 45.742 GL 12.59 GP -2.27 ZAL 43.93 ZAP 3.01 ETS 131.77 ZAE 151.56 ETE 207.91 ZAC 95.16 ETC 166.73 CLP 1.97

PLANETOCENTRIC CONIC
 C3 54.084 VHL 7.354 CLA 20.35 RAL 15.73 RAD 6569.0 VEL 13.246 PTH 2.42 VHP 11.368 DPA -5.03 RAP 2.40 ECC 1.8901
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 21 3154.56 -26.66 107.54 263.49 80.09 5 58 56 2554.6 -27.76 99.04
 90.00 22 51 28 4413.33 6.87 183.94 252.16 62.46 24 5 2 3813.3 3.13 177.26
 100.00 6 40 56 2849.58 -28.62 85.47 263.86 80.99 7 28 26 2249.6 -29.57 76.80
 100.00 0 3 30 4193.54 8.62 166.84 251.21 61.27 1 13 24 3593.5 4.72 160.22
 110.00 8 17 26 2547.68 -33.59 63.35 264.66 83.27 8 59 53 1947.7 -34.16 54.15
 110.00 0 43 30 4068.20 12.95 154.76 248.63 58.09 1 51 18 3468.2 8.64 148.31

DIFFERENTIAL CORRECTIONS
 TDE-1.1374 TRA-2.4982 TC3 -.2460 BAU .1887 SGT 2285.9 SGR 389.2 SG3 153.0 ST 1083.1 SR 332.0 SS 956.7
 RDE -.4213 RRA .1993 RC3 -.0869 FAU .01819 RRT -.0075 RRF .0236 RTF -.9124 CRT 7229 CRS .8106 CST .9903
 FDE 1.1117 FRA 1.7863 FC3 -.2911 BSP 7364 SGB 2318.8 R23 -.0166 R13 .9124 LSA 1464.2 MSA 233.1 SSA 16.7
 BDE 1.2129 BRA 2.5061 BC3 .2609 FSP -425 SG1 2285.9 SG2 389.2 THA 179.93 EL1 1110.6 EL2 223.7 ALF 13.03

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 26.049 GAL 10.67 AZL 86.33 MCA 116.56 SMA 118.52 ECC .30397 INC 3.6657 V1 30.186
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.660 GAP -16.93 AZP 91.64 TAL 153.15 TAP 269.71 RCA 82.50 APO 154.55 V2 35.174
 RC 44.782 GL 13.32 GP -2.46 ZAL 43.81 ZAP 2.52 ETS 103.75 ZAE 153.71 ETE 211.02 ZAC 96.97 ETC 166.88 CLP .56

PLANETOCENTRIC CONIC
 C3 50.468 VHL 7.104 CLA 21.14 RAL 15.72 RAD 6568.9 VEL 13.108 PTH 2.39 VHP 10.870 DPA -4.45 RAP 4.14 ECC 1.8306
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 53 3171.86 -26.45 108.76 262.41 79.52 5 49 45 2571.9 -27.63 100.30
 90.00 23 0 51 4361.68 5.23 181.02 251.38 62.13 24 13 33 3761.7 1.46 174.37
 100.00 6 32 32 2863.43 -28.47 86.47 262.81 80.48 7 20 15 2263.4 -29.49 77.82
 100.00 0 11 49 4145.35 7.03 164.14 250.39 60.87 1 20 54 3545.3 3.10 157.56
 110.00 8 10 59 2555.45 -33.53 63.94 263.67 82.93 8 53 34 1955.4 -34.15 54.75
 110.00 0 49 52 4026.09 11.43 152.45 247.74 57.56 1 56 58 3426.1 7.07 146.07

DIFFERENTIAL CORRECTIONS
 TDE-1.1477 TRA-2.4788 TC3 -.2378 BAU .1722 SGT 2359.2 SGR 376.2 SG3 166.4 ST 1127.2 SR 317.7 SS 1001.4
 RDE -.3893 RRA .1853 RC3 -.0925 FAU .01916 RRT -.0095 RRF .0284 RTF -.9178 CRT 7255 CRS .8127 CST .9903
 FDE 1.1788 FRA 1.8600 FC3 -.3287 BSP 7644 SGB 2389.0 R23 -.0194 R13 .9178 LSA 1524.1 MSA 226.4 SSA 16.6
 BDE 1.2120 BRA 2.4857 BC3 .2552 FSP -467 SG1 2359.2 SG2 376.2 THA 179.91 EL1 1151.3 EL2 214.1 ALF 11.98

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 124.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 26.210 GAL 10.24 AZL 86.28 MCA 119.79 SMA 119.42 ECC .29243 INC 3.7151 V1 30.186
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.764 GAP -16.08 AZP 91.85 TAL 152.82 TAP 272.61 RCA 84.50 APO 154.34 V2 35.164
 RC 43.971 GL 14.08 GP -2.67 ZAL 43.75 ZAP 2.81 ETS 72.84 ZAE 155.88 ETE 214.77 ZAC 98.76 ETC 167.03 CLP -.88

PLANETOCENTRIC CONIC
 C3 47.172 VHL 6.868 CLA 21.95 RAL 15.65 RAD 6568.8 VEL 12.982 PTH 2.37 VHP 10.387 DPA -3.90 RAP 5.87 ECC 1.7763
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 30 3191.62 -26.20 110.16 261.28 78.86 5 39 41 2591.6 -27.48 101.72
 90.00 23 10 43 4308.17 3.52 178.02 250.62 61.89 24 22 31 3708.2 -.26 171.39
 100.00 6 23 23 2879.20 -28.29 87.61 261.72 79.91 7 11 22 2279.2 -29.39 78.98
 100.00 0 20 26 4095.83 5.38 161.39 249.60 60.55 1 28 42 3495.8 1.42 154.84
 110.00 8 4 0 2564.43 -33.45 64.63 262.65 82.52 8 46 44 1964.4 -34.12 55.46
 110.00 0 56 19 3983.36 9.86 150.14 246.87 57.10 2 2 42 3383.4 5.45 143.81

DIFFERENTIAL CORRECTIONS
 TDE-1.1593 TRA-2.4556 TC3 -.2254 BAU .1550 SGT 2430.8 SGR 362.5 SG3 181.2 ST 1172.3 SR 302.1 SS 1050.1
 RDE -.3578 RRA .1729 RC3 -.0980 FAU .02019 RRT -.0148 RRF .0361 RTF -.9235 CRT 7278 CRS .8142 CST .9904
 FDE 1.2543 FRA 1.9399 FC3 -.3706 BSP 7940 SGB 2457.7 R23 -.0221 R13 .9235 LSA 1587.5 MSA 219.2 SSA 16.4
 BDE 1.2133 BRA 2.4616 BC3 .2457 FSP -511 SG1 2430.8 SG2 362.4 THA 179.87 EL1 1193.4 EL2 203.5 ALF 10.95

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 304.255

RL 147.60 LAL .00 LOL 64.82 VL 26.359 GAL 9.82 AZL 86.23 HCA 123.02 SMA 120.27 ECC .28152 INC 3.7679 V1 30.186
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.860 GAP -15.26 AZP 92.06 TAL 152.52 TAP 275.54 RCA 86.41 APO 154.12 V2 35.153
 RC 43.319 GL 14.88 GP -2.91 ZAL 43.75 ZAP 3.74 ETS 52.29 ZAE 158.02 ETE 219.34 ZAC 100.53 ETC 167.18 CLP -2.34

PLANETOCENTRIC CONIC

C3 44.173 VHL 6.646 DLA 22.77 RAL 15.53 RAD 6568.7 VEL 12.866 PTH 2.34 VHP 9.920 DPA -3.39 RAP 7.57 ECC 1.7270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 35 1 3214.45 -25.89 111.75 260.10 78.12 5 28 36 2614.4 -27.27 103.36
 90.00 23 21 13 4252.34 1.73 174.90 249.90 61.73 24 32 5 3652.3 -2.06 168.27
 100.00 6 13 23 2897.30 -28.07 88.91 260.59 79.26 7 1 40 2297.3 -29.26 80.31
 100.00 0 29 29 4044.75 3.67 158.57 248.83 60.31 1 36 53 3444.7 -1.31 152.04
 110.00 7 56 27 2574.88 -33.36 65.43 261.60 82.06 8 39 21 1974.9 -34.10 56.27
 110.00 1 2 54 3939.94 8.24 147.81 246.01 56.71 2 8 34 3339.9 3.80 141.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1738 TRA-2.4329 TC3 -.2134 BAU .1401 SGT 2505.5 SGR 348.1 SG3 197.6 ST 1220.5 SR 285.2 SS 1102.8
 RDE -.3266 RRA .1619 RC3 -.1037 FAU .02133 RRT -.0233 RRF .0482 RTF -.9283 CRT .7295 CRS .8150 CST .9906
 FDE 1.3388 FRA 2.0265 FC3 -.4181 BSP 8181 SGB 2529.6 R23 -.0262 R13 .9283 LSA 1655.9 MSA 211.8 SSA 16.3
 BDE 1.2184 BRA 2.4382 BC3 .2372 FSP -560 SG1 2505.6 SG2 348.0 THA 179.81 EL1 1238.5 EL2 192.3 ALF 9.92

LAUNCH DATE NOV 27 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 311.072

RL 147.60 LAL .00 LOL 64.82 VL 26.498 GAL 9.43 AZL 86.18 HCA 126.25 SMA 121.07 ECC .27122 INC 3.8246 V1 30.186
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.949 GAP -14.46 AZP 92.26 TAL 152.26 TAP 278.51 RCA 88.24 APO 153.91 V2 35.141
 RC 42.834 GL 15.71 GP -3.19 ZAL 43.81 ZAP 5.00 ETS 40.88 ZAE 160.04 ETE 224.94 ZAC 102.27 ETC 167.34 CLP -3.84

PLANETOCENTRIC CONIC

C3 41.452 VHL 6.438 DLA 23.60 RAL 15.36 RAD 6568.6 VEL 12.760 PTH 2.32 VHP 9.468 DPA -2.93 RAP 9.26 ECC 1.6822
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 13 3241.17 -25.50 113.62 258.86 77.26 5 16 15 2641.2 -27.01 105.27
 90.00 23 32 37 4193.60 -.17 171.62 249.24 61.68 24 42 30 3593.6 -3.95 164.99
 100.00 6 2 22 2918.27 -27.79 90.41 259.41 78.52 6 51 0 2318.3 -29.09 81.85
 100.00 0 39 5 3991.72 1.88 155.65 248.10 60.16 1 45 37 3391.7 -2.11 149.13
 110.00 7 48 14 2587.05 -33.24 66.36 260.53 81.52 8 31 21 1987.0 -34.05 57.22
 110.00 1 9 42 3895.71 6.58 145.46 245.18 56.38 2 14 38 3295.7 2.12 139.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1889 TRA-2.4067 TC3 -.1979 BAU .1253 SGT 2578.2 SGR 333.3 SG3 215.8 ST 1269.3 SR 266.8 SS 1159.6
 RDE -.2956 RRA .1528 RC3 -.1095 FAU .02260 RRT -.0379 RRF .0667 RTF -.9330 CRT .7297 CRS .8144 CST .9908
 FDE 1.4336 FRA 2.1200 FC3 -.4720 BSP 8419 SGB 2599.7 R23 -.0308 R13 .9330 LSA 1727.7 MSA 204.4 SSA 16.0
 BDE 1.2251 BRA 2.4115 BC3 .2261 FSP -615 SG1 2578.3 SG2 333.0 THA 179.71 EL1 1284.5 EL2 180.3 ALF 8.90

LAUNCH DATE NOV 27 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 317.882

RL 147.60 LAL .00 LOL 64.82 VL 26.628 GAL 9.06 AZL 86.11 HCA 129.48 SMA 121.84 ECC .26151 INC 3.8861 V1 30.186
 RP 107.87 LAP 3.00 LOP 194.36 VP 37.031 GAP -13.69 AZP 92.47 TAL 152.04 TAP 281.51 RCA 89.98 APO 153.70 V2 35.129
 RC 42.524 GL 16.58 GP -3.52 ZAL 43.94 ZAP 6.43 ETS 34.37 ZAE 161.87 ETE 231.77 ZAC 103.98 ETC 167.52 CLP -5.39

PLANETOCENTRIC CONIC

C3 38.987 VHL 6.244 DLA 24.46 RAL 15.12 RAD 6568.5 VEL 12.663 PTH 2.30 VHP 9.031 DPA -2.53 RAP 10.93 ECC 1.6416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 7 43 3273.01 -25.01 115.82 257.56 76.27 5 2 16 2673.0 -26.65 107.53
 90.00 23 45 14 4130.80 -2.19 168.12 248.64 61.76 24 54 5 3530.8 -5.95 161.46
 100.00 5 50 8 2942.84 -27.45 92.15 258.19 77.66 6 39 11 2342.8 -28.87 83.64
 100.00 0 49 27 3936.20 -.01 152.61 247.42 60.11 1 55 3 3336.2 -3.98 146.08
 110.00 7 39 18 2601.28 -33.09 67.45 259.43 80.90 8 22 40 2001.3 -33.99 58.33
 110.00 1 16 46 3850.53 4.87 143.08 244.39 56.12 2 20 57 3250.5 .39 136.86

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2021 TRA-2.3746 TC3 -.1770 BAU .1101 SGT 2645.0 SGR 318.0 SG3 235.8 ST 1316.3 SR 246.5 SS 1220.1
 RDE -.2643 RRA .1457 RC3 -.1153 FAU .02407 RRT -.0620 RRF .0948 RTF -.9375 CRT .7270 CRS .8114 CST .9910
 FDE 1.5389 FRA 2.2199 FC3 -.5344 BSP 8722 SGB 2664.1 R23 -.0359 R13 .9376 LSA 1800.8 MSA 197.2 SSA 15.7
 BDE 1.2308 BRA 2.3791 BC3 .2112 FSP -678 SG1 2645.1 SG2 317.4 THA 179.57 EL1 1328.6 EL2 167.7 ALF 7.88

LAUNCH DATE NOV 27 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 324.685

RL 147.60 LAL .00 LOL 64.82 VL 26.748 GAL 8.71 AZL 86.05 HCA 132.70 SMA 122.56 ECC .25238 INC 3.9536 V1 30.186
 RP 107.91 LAP 2.90 LOP 197.59 VP 37.106 GAP -12.94 AZP 92.68 TAL 151.85 TAP 284.55 RCA 91.63 APO 153.49 V2 35.117
 RC 42.392 GL 17.50 GP -3.90 ZAL 44.12 ZAP 7.98 ETS 30.47 ZAE 163.39 ETE 239.97 ZAC 105.65 ETC 167.71 CLP -6.97

PLANETOCENTRIC CONIC

C3 36.764 VHL 6.063 DLA 25.34 RAL 14.83 RAD 6568.4 VEL 12.575 PTH 2.28 VHP 8.609 DPA -2.20 RAP 12.57 ECC 1.6050
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 55 3311.98 -24.35 118.48 256.18 75.08 4 46 7 2712.0 -26.16 110.28
 90.00 0 3 38 4062.15 -4.40 164.28 248.14 62.00 1 11 21 3462.1 -8.11 157.57
 100.00 5 36 21 2972.04 -27.00 94.21 256.92 76.67 6 25 53 2372.0 -28.57 85.76
 100.00 1 0 53 3877.32 -2.00 149.38 246.81 60.17 2 5 30 3277.3 -5.96 142.82
 110.00 7 29 31 2617.98 -32.90 68.72 258.31 80.17 8 13 9 2018.0 -33.91 59.62
 110.00 1 24 13 3804.14 3.11 140.65 243.63 55.94 2 27 37 3204.1 -1.38 134.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2155 TRA-2.3384 TC3 -.1521 BAU .0956 SGT 2707.7 SGR 302.8 SG3 258.0 ST 1362.9 SR 224.2 SS 1285.3
 RDE -.2326 RRA .1409 RC3 -.1214 FAU .02571 RRT -.0983 RRF .1354 RTF -.9418 CRT .7201 CRS .8048 CST .9912
 FDE 1.6573 FRA 2.3276 FC3 -.6055 BSP 9048 SGB 2724.5 R23 -.0419 R13 .9418 LSA 1877.0 MSA 190.2 SSA 15.2
 BDE 1.2376 BRA 2.3427 BC3 .1946 FSP -750 SG1 2707.8 SG2 301.3 THA 179.36 EL1 1372.5 EL2 154.5 ALF 6.84

LAUNCH DATE NOV 27 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 26.860 GAL 8.37 AZL 85.97 HCA 135.92 SMA 123.24 ECC .24380 INC 4.0284 V1 30.186
 RP 107.95 LAP 2.80 LOP 200.81 VP 37.175 GAP -12.21 AZP 92.90 TAL 151.70 TAP 287.62 RCA 93.19 APO 153.29 V2 35.105
 RC 42.442 GL 18.46 GP -4.34 ZAL 44.37 ZAP 9.63 ETS 28.06 ZAE 164.49 ETE 249.45 ZAC 107.29 ETC 167.93 CLP -8.61

PLANETOCENTRIC CONIC
 C3 34.767 VHL 5.896 DLA 26.25 RAL 14.47 RAD 6568.4 VEL 12.495 PTH 2.26 VHP 8.201 DPA -1.95 RAP 14.20 ECC 1.5722
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 30 38 3361.79 -23.44 121.85 254.67 73.64 4 26 40 2761.8 -25.46 113.76
 90.00 0 21 5 3984.12 -6.87 159.88 247.78 62.46 1 27 29 3384.1 -10.51 153.09
 100.00 5 20 33 3007.48 -26.42 96.68 255.58 75.49 6 10 40 2407.5 -28.16 88.31
 100.00 1 13 52 3813.66 -4.15 145.87 246.30 60.37 2 17 25 3213.7 -8.07 139.27
 110.00 7 18 44 2637.71 -32.67 70.21 257.18 79.32 8 2 41 2037.7 -33.79 61.15
 110.00 1 32 10 3756.21 1.28 138.15 242.92 55.84 2 34 46 3156.2 -3.21 131.94

DIFFERENTIAL CORRECTIONS
 TDE-1.2296 TRA-2.2986 TC3 -.1232 BAU .0825 SGT 2766.1 SGR 288.2 SG3 282.6 ST 1409.2 SR 199.4 SS 1355.9
 RDE -.1999 RRA .1388 RC3 -.1278 FAU .02757 RRT -.1512 RRF .1932 RTF -.9458 CRT .7058 CRS .7917 CST .9913
 FDE 1.7913 FRA 2.4440 FC3 -.6865 BSP 9376 SGB 2781.0 R23 -.0493 R13 .9459 LSA 1957.0 MSA 183.5 SSA 14.7
 BDE 1.2457 BRA 2.3028 BC3 .1775 FSP -830 SG1 2766.4 SG2 284.8 THA 179.09 EL1 1416.3 EL2 140.6 ALF 5.76

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 26.963 GAL 8.06 AZL 85.89 HCA 139.14 SMA 123.88 ECC .23577 INC 4.1124 V1 30.186
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.237 GAP -11.51 AZP 93.11 TAL 151.58 TAP 290.71 RCA 94.67 APO 153.09 V2 35.092
 RC 42.671 GL 19.47 GP -4.87 ZAL 44.69 ZAP 11.39 ETS 26.61 ZAE 165.06 ETE 259.74 ZAC 108.89 ETC 168.18 CLP -10.30

PLANETOCENTRIC CONIC
 C3 32.985 VHL 5.743 DLA 27.19 RAL 14.05 RAD 6568.3 VEL 12.424 PTH 2.25 VHP 7.808 DPA -1.81 RAP 15.80 ECC 1.5429
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 4 8 3431.37 -22.03 126.46 252.92 71.74 4 1 19 2831.4 -24.32 118.54
 90.00 0 44 14 3888.00 -9.86 154.40 247.70 63.32 1 49 2 3288.0 -13.36 147.47
 100.00 5 1 49 3051.95 -25.63 99.75 254.14 74.06 5 52 41 2452.0 -27.57 91.48
 100.00 1 29 14 3742.65 -6.53 141.94 245.92 60.77 2 31 36 3142.7 -10.38 135.27
 110.00 7 6 42 2661.19 -32.35 71.97 256.02 78.32 7 51 3 2061.2 -33.63 62.96
 110.00 1 40 51 3706.18 -.64 135.54 242.27 55.82 2 42 37 3106.2 -5.12 129.32

DIFFERENTIAL CORRECTIONS
 TDE-1.2479 TRA-2.2585 TC3 -.0951 BAU .0728 SGT 2824.6 SGR 275.5 SG3 310.1 ST 1458.6 SR 171.9 SS 1434.0
 RDE -.1657 RRA .1398 RC3 -.1348 FAU .02956 RRT -.2243 RRF .2725 RTF -.9495 CRT .6781 CRS .7663 CST .9916
 FDE 1.9460 FRA 2.5717 FC3 -.7757 BSP 9628 SGB 2838.0 R23 -.0591 R13 .9496 LSA 2044.9 MSA 177.2 SSA 14.0
 BDE 1.2589 BRA 2.2628 BC3 .1650 FSP -917 SG1 2825.3 SG2 268.4 THA 178.74 EL1 1463.2 EL2 125.9 ALF 4.60

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 27.059 GAL 7.76 AZL 85.79 HCA 142.35 SMA 124.48 ECC .22824 INC 4.2079 V1 30.186
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.295 GAP -10.82 AZP 93.33 TAL 151.49 TAP 293.84 RCA 96.07 APO 152.89 V2 35.080
 RC 43.078 GL 20.55 GP -5.51 ZAL 45.08 ZAP 13.25 ETS 25.83 ZAE 165.07 ETE 270.00 ZAC 110.45 ETC 168.50 CLP -12.06

PLANETOCENTRIC CONIC
 C3 31.404 VHL 5.604 DLA 28.18 RAL 13.56 RAD 6568.3 VEL 12.360 PTH 2.23 VHP 7.430 DPA -1.79 RAP 17.38 ECC 1.5168
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 16 37 3568.11 -18.85 135.23 250.36 68.47 3 16 5 2968.1 -21.61 127.64
 90.00 1 27 48 3726.52 -14.62 144.93 248.48 65.48 2 29 54 3126.5 -17.81 137.70
 100.00 4 38 19 3111.23 -24.46 103.76 252.51 72.26 5 30 11 2511.2 -26.65 95.65
 100.00 1 48 46 3658.64 -9.30 137.24 245.76 61.46 2 49 45 3058.6 -13.04 130.45
 110.00 6 53 4 2689.48 -31.95 74.07 254.83 77.13 7 37 54 2089.5 -33.38 65.14
 110.00 1 50 31 3653.15 -2.66 132.77 241.71 55.91 2 51 24 3053.2 -7.12 126.52

DIFFERENTIAL CORRECTIONS
 TDE-1.2118 TRA-2.1581 TC3 .0072 BAU .0597 SGT 2793.1 SGR 266.4 SG3 337.0 ST 1448.8 SR 140.9 SS 1493.1
 RDE -.1286 RRA .1450 RC3 -.1421 FAU .03346 RRT -.3489 RRF .3904 RTF -.9551 CRT .6122 CRS .7117 CST .9910
 FDE 2.0853 FRA 2.6706 FC3 -.9223 BSP 11221 SGB 2805.8 R23 -.0581 R13 .9553 LSA 2077.9 MSA 174.4 SSA 12.6
 BDE 1.2186 BRA 2.1630 BC3 .1423 FSP -1091 SG1 2794.7 SG2 249.5 THA 178.08 EL1 1451.4 EL2 111.2 ALF 3.43

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 27.147 GAL 7.48 AZL 85.68 HCA 145.56 SMA 125.04 ECC .22127 INC 4.3185 V1 30.186
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.346 GAP -10.16 AZP 93.56 TAL 151.42 TAP 296.99 RCA 97.37 APO 152.71 V2 35.067
 RC 43.658 GL 21.70 GP -6.28 ZAL 45.53 ZAP 15.22 ETS 25.57 ZAE 164.54 ETE 279.40 ZAC 111.96 ETC 168.89 CLP -13.89

PLANETOCENTRIC CONIC
 C3 30.040 VHL 5.481 DLA 29.22 RAL 13.00 RAD 6568.2 VEL 12.305 PTH 2.22 VHP 7.068 DPA -1.93 RAP 18.96 ECC 1.4944
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.47 0 47 55 3836.76 -17.62 154.41 248.42 66.30 1 51 52 3236.8 -20.67 147.00
 97.53 2 52 2 3435.58 -17.61 124.96 248.42 66.30 3 49 17 2835.6 -20.66 117.55
 100.00 4 4 30 3203.26 -22.41 109.84 250.48 69.69 4 57 53 2603.3 -24.98 101.98
 100.00 2 18 8 3544.31 -12.94 130.70 246.11 62.82 3 17 13 2944.3 -16.48 123.70
 110.00 6 37 24 2724.35 -31.39 76.64 253.61 75.71 7 22 48 2124.4 -33.03 67.80
 110.00 2 1 43 3595.99 -4.84 129.77 241.29 56.12 3 1 39 2996.0 -9.25 123.47

DIFFERENTIAL CORRECTIONS
 TDE-1.3419 TRA-2.2196 TC3 -.1024 BAU .0736 SGT 3008.1 SGR 265.5 SG3 378.9 ST 1613.7 SR 108.1 SS 1639.9
 RDE -.0887 RRA .1541 RC3 -.1521 FAU .03243 RRT -.4284 RRF .5004 RTF -.9543 CRT .4923 CRS .5910 CST .9929
 FDE 2.3674 FRA 2.8992 FC3 -.9345 BSP 8845 SGB 3019.8 R23 -.0984 R13 .9546 LSA 2297.4 MSA 163.9 SSA 13.0
 BDE 1.3448 BRA 2.2250 BC3 .1834 FSP -1045 SG1 3010.3 SG2 239.7 THA 177.82 EL1 1614.5 EL2 94.0 ALF 1.30

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 358.526

RL 147.60 LAL .00 LOL 64.82 VL 27.228 GAL 7.22 AZL 85.55 MCA 148.78 SMA 125.56 ECC .21474 INC 4.4486 V1 30.186
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.393 GAP -9.51 AZP 93.81 TAL 151.39 TAP 300.16 RCA 98.60 APO 152.53 V2 35.053
 RC 44.405 GL 22.95 GP -7.23 ZAL 46.08 ZAP 17.35 ETS 25.75 ZAE 163.55 ETE 287.18 ZAC 113.43 ETC 169.38 CLP -15.81

PLANETOCENTRIC CONIC

C3 28.865 VHL 5.373 DLA 30.33 RAL 12.34 RAD 6568.2 VEL 12.257 PTH 2.21 VHP 6.722 DPA -2.27 RAP 20.52 ECC 1.4750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.64 0 15 52 3920.82 -18.53 161.07 247.41 65.55 1 21 13 3320.8 -21.68 153.66
 101.36 3 18 48 3331.54 -18.52 117.67 247.40 65.54 4 14 20 2731.5 -21.66 110.25
 78.64 0 15 52 3920.82 -18.53 161.07 247.41 65.55 1 21 13 3320.8 -21.68 153.66
 101.36 3 18 48 3331.54 -18.52 117.67 247.40 65.54 4 14 20 2731.5 -21.66 110.25
 110.00 6 18 38 2768.46 -30.60 79.83 252.29 73.97 7 4 46 2168.5 -32.49 71.13
 110.00 2 15 13 3531.90 -7.26 126.39 241.02 56.50 3 14 5 2931.9 -11.61 120.00

DIFFERENTIAL CORRECTIONS

TDE-1.3494 TRA-2.1512 TC3 -.0492 BAU .0656
 RDE -.0424 RRA .1699 RC3 -.1628 FAU .03552
 FDE 2.5949 FRA 3.0480 FC3-1.0654 BSP 9459
 BDE 1.3501 BRA 2.1579 BC3 .1701 FSP -1186

MID-COURSE EXECUTION ACCURACY

SGT 3023.0 SGR 276.9 SG3 415.7
 RRT -.5777 RRF .6497 RTF -.9578
 SGB 3035.7 R23 -.1143 R13 .9583
 SG1 3027.3 SG2 225.7 THA 176.95

ORBIT DETERMINATION ACCURACY

ST 1645.3 SR 77.7 SS 1736.0
 CRT .1160 CRS .2313 CST .9929
 LSA 2387.6 MSA 160.9 SSA 11.7
 EL1 1645.3 EL2 77.1 ALF .31

LAUNCH DATE NOV 27 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 365.247

RL 147.60 LAL .00 LOL 64.82 VL 27.303 GAL 6.98 AZL 85.39 MCA 151.98 SMA 126.05 ECC .20869 INC 4.6051 V1 30.186
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.435 GAP -8.89 AZP 94.07 TAL 151.38 TAP 303.36 RCA 99.75 APO 152.36 V2 35.040
 RC 45.309 GL 24.33 GP -8.42 ZAL 46.73 ZAP 19.65 ETS 26.36 ZAE 162.18 ETE 293.08 ZAC 114.84 ETC 170.02 CLP -17.82

PLANETOCENTRIC CONIC

C3 27.899 VHL 5.282 DLA 31.54 RAL 11.57 RAD 6568.1 VEL 12.218 PTH 2.20 VHP 6.392 DPA -2.88 RAP 22.09 ECC 1.4592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.49 23 46 16 3983.74 -19.47 166.26 246.42 64.68 24 52 40 3383.7 -22.72 158.84
 104.51 3 38 21 3251.63 -19.45 112.12 246.42 64.67 4 32 32 2651.6 -22.70 104.70
 75.49 23 46 16 3983.74 -19.47 166.26 246.42 64.68 24 52 40 3383.7 -22.72 158.84
 104.51 3 38 21 3251.63 -19.45 112.12 246.42 64.67 4 32 32 2651.6 -22.70 104.70
 110.00 5 54 57 2827.40 -29.42 84.02 250.78 71.75 6 42 5 2227.4 -31.63 75.50
 110.00 2 32 46 3455.97 -10.09 122.33 241.04 57.17 3 30 21 2856.0 -14.34 115.82

DIFFERENTIAL CORRECTIONS

TDE-1.3669 TRA-2.0848 TC3 -.0036 BAU .0658
 RDE .0123 RRA .1931 RC3 -.1763 FAU .03869
 FDE 2.8657 FRA 3.2087 FC3-1.2005 BSP 9897
 BDE 1.3669 BRA 2.0938 BC3 .1763 FSP -1333

MID-COURSE EXECUTION ACCURACY

SGT 3039.7 SGR 308.6 SG3 456.8
 RRT -.7154 RRF .7852 RTF -.9609
 SGB 3055.3 R23 -.1351 R13 .9616
 SG1 3047.7 SG2 215.1 THA 175.82

ORBIT DETERMINATION ACCURACY

ST 1682.9 SR 75.1 SS 1845.5
 CRT -.6207 CRS -.5259 CST .9931
 LSA 2493.6 MSA 158.6 SSA 10.4
 EL1 1683.5 EL2 58.9 ALF 178.41

LAUNCH DATE NOV 27 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 371.951

RL 147.60 LAL .00 LOL 64.82 VL 27.372 GAL 6.75 AZL 85.20 MCA 155.19 SMA 126.50 ECC .20309 INC 4.7983 V1 30.186
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.473 GAP -8.28 AZP 94.36 TAL 151.39 TAP 306.57 RCA 100.81 APO 152.19 V2 35.027
 RC 46.364 GL 25.86 GP -9.94 ZAL 47.50 ZAP 22.18 ETS 27.40 ZAE 160.48 ETE 297.09 ZAC 116.21 ETC 170.87 CLP -19.92

PLANETOCENTRIC CONIC

C3 27.165 VHL 5.212 DLA 32.88 RAL 10.66 RAD 6568.1 VEL 12.188 PTH 2.19 VHP 6.083 DPA -3.83 RAP 23.71 ECC 1.4471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.55 23 23 0 4038.33 -20.44 170.92 245.48 63.66 24 30 19 3438.3 -23.80 163.51
 107.45 3 54 23 3183.76 -20.42 107.45 245.47 63.66 4 47 26 2583.8 -23.79 100.03
 72.55 23 23 0 4038.33 -20.44 170.92 245.48 63.66 24 30 19 3438.3 -23.80 163.51
 107.45 3 54 23 3183.76 -20.42 107.45 245.47 63.66 4 47 26 2583.8 -23.79 100.03
 110.00 5 21 29 2915.80 -27.38 90.08 248.83 68.69 6 10 5 2315.8 -30.02 81.89
 110.00 2 59 0 3354.29 -13.78 116.77 241.63 58.40 3 54 54 2754.3 -17.86 110.04

DIFFERENTIAL CORRECTIONS

TDE-1.4023 TRA-2.0266 TC3 .0215 BAU .0707
 RDE .0802 RRA .2265 RC3 -.1934 FAU .04148
 FDE 3.1970 FRA 3.3851 FC3-1.3219 BSP 10000
 BDE 1.4046 BRA 2.0392 BC3 .1946 FSP -1469

MID-COURSE EXECUTION ACCURACY

SGT 3068.3 SGR 369.3 SG3 502.9
 RRT -.8182 RRF .8847 RTF -.9632
 SGB 3090.5 R23 -.1614 R13 .9643
 SG1 3083.2 SG2 211.3 THA 174.35

ORBIT DETERMINATION ACCURACY

ST 1734.9 SR 125.4 SS 1974.9
 CRT -.9502 CRS -.9091 CST .9933
 LSA 2627.0 MSA 157.1 SSA 9.1
 EL1 1739.0 EL2 39.0 ALF 176.07

LAUNCH DATE NOV 27 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 378.635

RL 147.60 LAL .00 LOL 64.82 VL 27.434 GAL 6.54 AZL 84.96 MCA 158.39 SMA 126.92 ECC .19793 INC 5.0445 V1 30.186
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.507 GAP -7.69 AZP 94.69 TAL 151.41 TAP 309.80 RCA 101.80 APO 152.04 V2 35.013
 RC 47.558 GL 27.63 GP -11.94 ZAL 48.44 ZAP 25.01 ETS 28.95 ZAE 158.43 ETE 299.31 ZAC 117.53 ETC 172.03 CLP -22.14

PLANETOCENTRIC CONIC

C3 26.702 VHL 5.167 DLA 34.40 RAL 9.57 RAD 6568.1 VEL 12.169 PTH 2.18 VHP 5.797 DPA -5.26 RAP 25.41 ECC 1.4394
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.59 23 0 25 4089.97 -21.44 175.48 244.59 62.43 24 8 34 3490.0 -24.96 168.08
 110.41 4 8 15 3123.57 -21.43 103.33 244.58 62.42 5 0 18 2523.6 -24.95 95.92
 69.59 23 0 25 4089.97 -21.44 175.48 244.59 62.43 24 8 34 3490.0 -24.96 168.08
 110.41 4 8 15 3123.57 -21.43 103.33 244.58 62.42 5 0 18 2523.6 -24.95 95.92
 69.59 23 0 25 4089.97 -21.44 175.48 244.59 62.43 24 8 34 3490.0 -24.96 168.08
 110.41 4 8 15 3123.57 -21.43 103.33 244.58 62.42 5 0 18 2523.6 -24.95 95.92

DIFFERENTIAL CORRECTIONS

TDE-1.4409 TRA-1.9578 TC3 .0503 BAU .0792
 RDE .1686 RRA .2734 RC3 -.2160 FAU .04453
 FDE 3.5826 FRA 3.5500 FC3-1.4437 BSP 10197
 BDE 1.4507 BRA 1.9768 BC3 .2218 FSP -1626

MID-COURSE EXECUTION ACCURACY

SGT 3078.6 SGR 468.8 SG3 551.6
 RRT -.8848 RRF .9450 RTF -.9654
 SGB 3114.1 R23 -.1858 R13 .9672
 SG1 3106.6 SG2 216.5 THA 172.29

ORBIT DETERMINATION ACCURACY

ST 1782.0 SR 217.1 SS 2115.1
 CRT -.9968 CRS -.9824 CST .9936
 LSA 2769.8 MSA 157.4 SSA 7.7
 EL1 1795.1 EL2 17.2 ALF 173.07

LAUNCH DATE NOV 27 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 64.82 VL 27.492 GAL 6.35 AZL 84.63 MCA 161.59 SMA 127.30 ECC .19319 INC 5.3715 V1 30.186
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.536 GAP -7.11 AZP 95.10 TAL 151.45 TAP 313.04 RCA 102.71 APO 151.90 V2 35.000
 RC 48.883 GL 29.73 GP -14.64 ZAL 49.61 ZAP 28.28 ETS 31.13 ZAE 155.87 ETE 299.87 ZAC 118.80 ETC 173.66 CLP -24.46

PLANETOCENTRIC CONIC

C3 26.597 VHL 5.157 DLA 36.19 RAL 8.20 RAD 6568.1 VEL 12.164 PTH 2.18 VHP 5.545 DPA -7.39 RAP 27.29 ECC 1.4377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.45 22 37 8 4142.55 -22.50 180.26 243.75 60.87 23 46 11 3542.5 -26.20 172.89
 113.55 4 20 36 3069.05 -22.48 99.62 243.74 60.86 5 11 45 2469.1 -26.19 92.25
 66.45 22 37 8 4142.55 -22.50 180.26 243.75 60.87 23 46 11 3542.5 -26.20 172.89
 113.55 4 20 36 3069.05 -22.48 99.62 243.74 60.86 5 11 45 2469.1 -26.19 92.25
 66.45 22 37 8 4142.55 -22.50 180.26 243.75 60.87 23 46 11 3542.5 -26.20 172.89
 113.55 4 20 36 3069.05 -22.48 99.62 243.74 60.86 5 11 45 2469.1 -26.19 92.25

DIFFERENTIAL CORRECTIONS

TDE-1.4955 TRA-1.8850 TC3 .0697 BAU .0907
 RDE .2912 RRA .3390 RC3 -.2454 FAU .04723
 FDE 4.0422 FRA 3.6906 FC3-1.5373 BSP 10331
 BOE 1.5236 BRA 1.9152 BC3 .2551 FSP -1782

MID-COURSE EXECUTION ACCURACY

SGT 3082.1 SGR 621.7 SG3 601.7
 RRT -.9220 RRF .9759 RTF -.9672
 SGB 3144.2 R23 -.2037 R13 .9702
 SG1 3135.3 SG2 236.6 TMA 169.40

ORBIT DETERMINATION ACCURACY

ST 1834.8 SR 352.6 SS 2272.0
 CRT -.9993 CRS -.9966 CST .9938
 LSA 2937.3 MSA 159.3 SSA 6.3
 EL1 1868.3 EL2 12.5 ALF 169.13

LAUNCH DATE NOV 27 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 64.82 VL 27.544 GAL 6.17 AZL 84.17 MCA 164.79 SMA 127.65 ECC .18886 INC 5.8300 V1 30.186
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.562 GAP -6.55 AZP 95.63 TAL 151.50 TAP 316.29 RCA 103.55 APO 151.76 V2 34.987
 RC 50.327 GL 32.35 GP -18.44 ZAL 51.13 ZAP 32.22 ETS 34.11 ZAE 152.46 ETE 298.89 ZAC 120.02 ETC 176.04 CLP -26.89

PLANETOCENTRIC CONIC

C3 27.032 VHL 5.199 DLA 38.39 RAL 6.40 RAD 6568.1 VEL 12.182 PTH 2.19 VHP 5.342 DPA -10.57 RAP 29.53 ECC 1.4449
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.92 22 11 40 4200.12 -23.58 185.63 242.98 58.78 23 21 40 3600.1 -27.54 178.33
 117.08 4 31 40 3019.53 -23.57 96.28 242.97 58.78 5 22 0 2419.5 -27.52 88.98
 62.92 22 11 40 4200.12 -23.58 185.63 242.98 58.78 23 21 40 3600.1 -27.54 178.33
 117.08 4 31 40 3019.53 -23.57 96.28 242.97 58.78 5 22 0 2419.5 -27.52 88.98
 62.92 22 11 40 4200.12 -23.58 185.63 242.98 58.78 23 21 40 3600.1 -27.54 178.33
 117.08 4 31 40 3019.53 -23.57 96.28 242.97 58.78 5 22 0 2419.5 -27.52 88.98

DIFFERENTIAL CORRECTIONS

TDE-1.5753 TRA-1.8050 TC3 .0791 BAU .1060
 RDE .4741 RRA .4305 RC3 -.2824 FAU .04898
 FDE 4.5830 FRA 3.7636 FC3-1.5686 BSP 10466
 BOE 1.6451 BRA 1.8556 BC3 .2933 FSP -1922

MID-COURSE EXECUTION ACCURACY

SGT 3075.9 SGR 851.8 SG3 647.5
 RRT -.9417 RRF .9901 RTF -.9687
 SGB 3191.7 R23 -.2091 R13 .9738
 SG1 3179.6 SG2 277.3 TMA 165.27

ORBIT DETERMINATION ACCURACY

ST 1895.7 SR 553.2 SS 2443.8
 CRT -.9968 CRS -.9995 CST .9941
 LSA 3137.7 MSA 163.3 SSA 4.8
 EL1 1974.3 EL2 42.5 ALF 163.77

LAUNCH DATE NOV 27 1968

FLIGHT TIME 154.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 64.82 VL 27.591 GAL 6.00 AZL 83.48 MCA 167.98 SMA 127.98 ECC .18492 INC 6.5248 V1 30.186
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.585 GAP -6.01 AZP 96.38 TAL 151.56 TAP 319.54 RCA 104.31 APO 151.64 V2 34.974
 RC 51.881 GL 35.79 GP -24.05 ZAL 53.26 ZAP 37.27 ETS 38.19 ZAE 147.50 ETE 296.63 ZAC 121.11 ETC 179.71 CLP -29.38

PLANETOCENTRIC CONIC

C3 28.433 VHL 5.332 DLA 41.23 RAL 3.82 RAD 6568.1 VEL 12.240 PTH 2.20 VHP 5.234 DPA -15.41 RAP 32.51 ECC 1.4679
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.68 21 41 48 4268.15 -24.65 192.12 242.26 55.84 22 52 57 3668.2 -28.95 184.97
 121.32 4 40 59 2976.68 -24.63 93.41 242.26 55.83 5 30 36 2376.7 -28.94 86.27
 58.68 21 41 48 4268.15 -24.65 192.12 242.26 55.84 22 52 57 3668.2 -28.95 184.97
 121.32 4 40 59 2976.68 -24.63 93.41 242.26 55.83 5 30 36 2376.7 -28.94 86.27
 58.68 21 41 48 4268.15 -24.65 192.12 242.26 55.84 22 52 57 3668.2 -28.95 184.97
 121.32 4 40 59 2976.68 -24.63 93.41 242.26 55.83 5 30 36 2376.7 -28.94 86.27

DIFFERENTIAL CORRECTIONS

TDE-1.7063 TRA-1.7139 TC3 .0775 BAU .1271
 RDE .7716 RRA .5554 RC3 -.3254 FAU .04863
 FDE 5.1853 FRA 3.6720 FC3-1.4806 BSP 10747
 BOE 1.8727 BRA 1.8016 BC3 .3345 FSP -2016

MID-COURSE EXECUTION ACCURACY

SGT 3060.2 SGR 1199.0 SG3 675.1
 RRT -.9517 RRF .9959 RTF -.9699
 SGB 3286.6 R23 -.1985 R13 .9786
 SG1 3268.5 SG2 344.6 TMA 159.31

ORBIT DETERMINATION ACCURACY

ST 1975.1 SR 862.7 SS 2618.0
 CRT -.9948 CRS-1.0000 CST .9944
 LSA 3386.8 MSA 169.5 SSA 3.4
 EL1 2153.8 EL2 80.6 ALF 156.48

LAUNCH DATE NOV 27 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 64.82 VL 27.634 GAL 5.86 AZL 82.29 MCA 171.17 SMA 128.27 ECC .18135 INC 7.7114 V1 30.186
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.604 GAP -5.47 AZP 97.62 TAL 151.62 TAP 322.78 RCA 105.01 APO 151.53 V2 34.961
 RC 53.536 GL 40.68 GP -32.84 ZAL 56.50 ZAP 44.39 ETS 43.82 ZAE 139.55 ETE 293.75 ZAC 121.80 ETC 185.78 CLP -31.73

PLANETOCENTRIC CONIC

C3 32.023 VHL 5.659 DLA 45.13 RAL 359.67 RAD 6568.3 VEL 12.385 PTH 2.24 VHP 5.342 DPA -23.08 RAP 37.14 ECC 1.5270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.26 21 3 19 4356.95 -25.39 200.63 241.50 51.34 22 15 56 3756.9 -30.20 193.82
 126.74 4 46 23 2947.51 -25.37 91.41 241.49 51.33 5 35 30 2347.5 -30.19 84.61
 53.26 21 3 19 4356.95 -25.39 200.63 241.50 51.34 22 15 56 3756.9 -30.20 193.82
 126.74 4 46 23 2947.51 -25.37 91.41 241.49 51.33 5 35 30 2347.5 -30.19 84.61
 53.26 21 3 19 4356.95 -25.39 200.63 241.50 51.34 22 15 56 3756.9 -30.20 193.82
 126.74 4 46 23 2947.51 -25.37 91.41 241.49 51.33 5 35 30 2347.5 -30.19 84.61

DIFFERENTIAL CORRECTIONS

TDE-1.9659 TRA-1.6098 TC3 .0575 BAU .1547
 RDE 1.3142 RRA .7105 RC3 -.3568 FAU .04305
 FDE 5.7297 FRA 3.2253 FC3-1.1639 BSP 11363
 BOE 2.3647 BRA 1.7597 BC3 .3615 FSP -1965

MID-COURSE EXECUTION ACCURACY

SGT 3050.2 SGR 1724.4 SG3 651.3
 RRT -.9565 RRF .9980 RTF -.9711
 SGB 3503.9 R23 -.1684 R13 .9853
 SG1 3476.0 SG2 441.7 TMA 151.09

ORBIT DETERMINATION ACCURACY

ST 2107.7 SR 1365.4 SS 2753.1
 CRT -.9940 CRS-1.0000 CST .9950
 LSA 3722.2 MSA 177.7 SSA 2.1
 EL1 2508.2 EL2 125.3 ALF 147.13

LAUNCH DATE NOV 27 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 411.729

RL 147.60 LAL .00 LOL 64.82 VL 27.673 GAL 5.73 AZL 79.78 HCA 174.34 SMA 128.53 ECC .17816 INC10.2180 V1 30.186
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.620 GAP -4.96 AZP 100.17 TAL 151.67 TAP 326.01 RCA 105.63 APO 151.43 V2 34.948
 RC 55.282 GL 48.31 GP -47.46 ZAL 62.06 ZAP 55.46 ETS 51.99 ZAE 125.78 ETE 292.30 ZAC 121.13 ETC 196.89 CLP -33.00

PLANETOCENTRIC CONIC

C3 42.775 VML 6.540 CLA 50.71 RAL 351.62 RAD 6568.6 VEL 12.812 PTH 2.33 VHP 6.134 DPA -35.45 RAP 46.26 ECC 1.7040
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.99 20 6 9 4491.99 -24.39 212.76 239.87 44.05 21 21 1 3892.0 -30.00 206.76
 134.01 4 39 20 2958.63 -24.38 91.49 239.85 44.04 5 28 38 2358.6 -29.99 85.50
 45.99 20 6 9 4491.99 -24.39 212.76 239.87 44.05 21 21 1 3892.0 -30.00 206.76
 134.01 4 39 20 2958.63 -24.38 91.49 239.85 44.04 5 28 38 2358.6 -29.99 85.50
 45.99 20 6 9 4491.99 -24.39 212.76 239.87 44.05 21 21 1 3892.0 -30.00 206.76
 134.01 4 39 20 2958.63 -24.38 91.49 239.85 44.04 5 28 38 2358.6 -29.99 85.50

DIFFERENTIAL CORRECTIONS

TDE -2.6725 TRA -1.4876 TC3 .0099 BAU .1759
 RDE 2.4477 RRA .8021 RC3 -.3074 FAU .02655
 FDE 5.7191 FRA 2.1060 FC3 -.5373 BSP 12781
 BDE 3.6240 BRA 1.6900 BC3 .3076 FSP -1571

MID-COURSE EXECUTION ACCURACY

SGT 3117.3 SGR 2447.7 SG3 504.4
 RRT -.9580 RRF .9978 RTF -.9745
 SGB 3963.5 R23 -.1157 R13 .9932
 SG1 3924.0 SG2 557.9 THA 142.15

ORBIT DETERMINATION ACCURACY

ST 2421.3 SR 2170.0 SS 2695.4
 CRT -.9946 CRS -.9998 CST .9964
 LSA 4219.2 MSA 186.3 SSA .9
 EL1 3247.1 EL2 167.9 ALF 138.15

LAUNCH DATE NOV 27 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 418.229

RL 147.60 LAL .00 LOL 64.82 VL 27.707 GAL 5.62 AZL 71.00 HCA 177.48 SMA 128.77 ECC .17539 INC19.0012 V1 30.186
 RP 108.47 LAP .82 LOP 242.44 VP 37.634 GAP -4.47 AZP 108.99 TAL 151.68 TAP 329.17 RCA 106.19 APO 151.36 V2 34.936
 RC 57.109 GL 60.40 GP -71.63 ZAL 73.01 ZAP 72.85 ETS 78.15 ZAE 101.18 ETE 310.82 ZAC 117.02 ETC 231.14 CLP -20.63

PLANETOCENTRIC CONIC

C3 106.621 VML 10.326 CLA 56.67 RAL 331.90 RAD 6570.0 VEL 15.098 PTH 2.71 VHP 10.692 DPA -52.20 RAP 72.92 ECC 2.7547
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.62 18 25 57 4754.22 -14.63 228.95 232.03 34.61 19 45 11 4154.2 -21.16 224.51
 141.38 3 42 11 3126.77 -14.61 97.28 232.01 34.60 4 34 17 2526.8 -21.14 92.83
 38.62 18 25 57 4754.22 -14.63 228.95 232.03 34.61 19 45 11 4154.2 -21.16 224.51
 141.38 3 42 11 3126.77 -14.61 97.28 232.01 34.60 4 34 17 2526.8 -21.14 92.83
 38.62 18 25 57 4754.22 -14.63 228.95 232.03 34.61 19 45 11 4154.2 -21.16 224.51
 141.38 3 42 11 3126.77 -14.61 97.28 232.01 34.60 4 34 17 2526.8 -21.14 92.83

DIFFERENTIAL CORRECTIONS

TDE -7.1892 TRA -1.2654 TC3 -.1402 BAU .2054
 RDE 3.6227 RRA -.0050 RC3 -.0333 FAU -.00617
 FDE 4.1354 FRA .4809 FC3 .0501 BSP 14047
 BDE 8.0504 BRA 1.2654 BC3 .1441 FSP -630

MID-COURSE EXECUTION ACCURACY

SGT 4198.8 SGR 2011.3 SG3 202.8
 RRT -.9464 RRF .9748 RTF -.9946
 SGB 4655.7 R23 -.0449 R13 .9990
 SG1 4618.0 SG2 590.8 THA 155.18

ORBIT DETERMINATION ACCURACY

ST 4007.5 SR 2010.2 SS 2124.0
 CRT -.9953 CRS -.9979 CST .9995
 LSA 4958.0 MSA 175.2 SSA .9
 EL1 4480.1 EL2 173.5 ALF 153.43

LAUNCH DATE NOV 27 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 425.187

RL 147.60 LAL .00 LOL 64.82 VL 27.738 GAL 5.44 AZL 128.41 HCA 181.02 SMA 128.98 ECC .17214 INC38.4098 V1 30.186
 RP 108.51 LAP .64 LOP 245.62 VP 37.645 GAP -3.87 AZP 51.59 TAL 152.02 TAP 333.04 RCA 106.78 APO 151.19 V2 34.923
 RC 59.010 GL -62.22 GP 73.46 ZAL 81.30 ZAP 83.93 ETS 208.65 ZAE 85.43 ETE 335.72 ZAC 87.00 ETC 51.13 CLP 68.21

PLANETOCENTRIC CONIC

C3 376.002 VML 19.391 CLA -56.29 RAL 33.41 RAD 6572.0 VEL 22.300 PTH 3.25 VHP 26.086 DPA 75.32 RAP 236.04 ECC 7.1880
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.08 10 34 22 2303.15 3.57 66.39 301.01 146.22 11 12 45 1703.2 10.20 62.29
 140.92 19 44 28 680.18 3.58 295.29 301.03 146.22 19 55 48 80.2 10.21 291.20
 39.08 10 34 22 2303.15 3.57 66.39 301.01 146.22 11 12 45 1703.2 10.20 62.29
 140.92 19 44 28 680.18 3.58 295.29 301.03 146.22 19 55 48 80.2 10.21 291.20
 39.08 10 34 22 2303.15 3.57 66.39 301.01 146.22 11 12 45 1703.2 10.20 62.29
 140.92 19 44 28 680.18 3.58 295.29 301.03 146.22 19 55 48 80.2 10.21 291.20

DIFFERENTIAL CORRECTIONS

TDE 2.0065 TRA -5.5644 TC3 -.2124 BAU 1.5846
 RDE .8796 RRA 6.5121 RC3 .2330 FAU -.03026
 FDE -.1553 FRA 1.8936 FC3 .0697 BSP 11391
 BDE 2.1909 BRA 8.5656 BC3 .3152 FSP -222

MID-COURSE EXECUTION ACCURACY

SGT 3131.7 SGR 3592.5 SG3 90.3
 RRT -.9655 RRF .9932 RTF -.9892
 SGB 4765.9 R23 .0032 R13 1.0000
 SG1 4725.4 SG2 619.8 THA 130.94

ORBIT DETERMINATION ACCURACY

ST 1068.7 SR 1072.5 SS 689.8
 CRT -.6728 CRS -.9229 CST .9058
 LSA 1546.9 MSA 612.5 SSA .2
 EL1 1384.7 EL2 612.4 ALF 134.85

LAUNCH DATE NOV 27 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 431.468

RL 147.60 LAL .00 LOL 64.82 VL 27.765 GAL 5.39 AZL 96.44 HCA 184.01 SMA 129.17 ECC .17031 INC 6.4427 V1 30.186
 RP 108.55 LAP .45 LOP 248.80 VP 37.654 GAP -3.44 AZP 83.57 TAL 151.90 TAP 335.90 RCA 107.17 APO 151.17 V2 34.911
 RC 60.976 GL -37.90 GP 62.97 ZAL 54.76 ZAP 69.85 ETS 318.58 ZAE 119.77 ETE 76.54 ZAC 91.09 ETC 149.26 CLP -40.72

PLANETOCENTRIC CONIC

C3 25.489 VML 5.049 CLA -26.55 RAL 35.03 RAD 6568.0 VEL 12.119 PTH 2.17 VHP 7.176 DPA 61.35 RAP 340.41 ECC 1.4195
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 13 48 11 1238.69 10.02 345.14 263.90 116.62 14 8 50 638.7 13.52 338.21
 90.00 16 43 36 663.81 24.42 309.25 269.58 104.79 16 54 40 63.8 26.22 301.04
 100.00 14 39 0 1074.55 7.33 331.65 262.46 119.06 14 56 55 474.6 11.15 324.94
 100.00 18 35 28 5591.23 27.38 261.41 270.38 102.49 20 8 39 4991.2 28.83 252.91
 110.00 14 55 24 1023.09 2.13 324.55 259.25 124.12 15 12 27 423.1 6.59 318.30
 110.00 20 35 34 5215.45 33.39 234.12 271.62 97.79 22 2 29 4615.4 34.11 224.95

DIFFERENTIAL CORRECTIONS

TDE -.6397 TRA -1.8069 TC3 .0667 BAU .2884
 RDE -.3157 RRA -2.9835 RC3 .8436 FAU .02835
 FDE .4809 FRA 3.4102 FC3 -.9630 BSP 14596
 BDE .7134 BRA 3.4880 BC3 .8462 FSP -1232

MID-COURSE EXECUTION ACCURACY

SGT 2405.5 SGR 3896.1 SG3 386.0
 RRT .9596 RRF -.9995 RTF -.9658
 SGB 4578.9 R23 -.0539 R13 -.9984
 SG1 4541.9 SG2 580.3 THA 58.79

ORBIT DETERMINATION ACCURACY

ST 1000.0 SR 1191.0 SS 873.1
 CRT .8741 CRS .9957 CST .9152
 LSA 1739.6 MSA 393.1 SSA 1.9
 EL1 1507.0 EL2 383.8 ALF 50.68

LAUNCH DATE NOV 27 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 437.933

RL 147.60 LAL .00 LOL 64.82 VL 27.788 GAL 5.32 AZL 92.10 MCA 187.16 SMA 129.34 ECC .16844 INC 2.0991 V1 30.186
 RP 108.58 LAP .26 LOP 251.98 VP 37.661 GAP -2.98 AZP 87.92 TAL 151.90 TAP 339.07 RCA 107.55 APO 151.12 V2 34.900
 RC 63.000 GL -14.80 GP 47.07 ZAL 43.44 ZAP 63.82 ETS 330.88 ZAE 135.70 ETE 79.68 ZAC 96.85 ETC 153.27 CLP -49.62

PLANETOCENTRIC CONIC

C3 15.756 VHL 3.969 CLA -4.64 RAL 27.18 RAD 6567.6 VEL 11.711 PTH 2.06 VHP 4.895 DPA 47.70 RAP 355.80 ECC 1.2593
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 20 9 2014.57 -14.27 29.20 244.01 114.72 9 53 43 1414.6 -10.81 22.22
 90.00 20 8 59 4947.34 21.62 216.14 245.85 71.25 21 31 27 4347.3 18.86 208.55
 100.00 10 39 18 1759.21 -15.22 9.96 243.54 116.04 11 8 37 1159.2 -11.59 3.04
 100.00 21 32 31 4677.93 22.61 195.95 245.48 69.91 22 50 29 4077.9 19.67 188.38
 110.00 11 42 33 1561.22 -17.74 353.54 242.15 119.71 12 8 34 961.2 -13.65 346.81
 110.00 22 45 46 4448.69 25.26 177.37 244.31 66.16 23 59 55 3848.7 21.82 169.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4860 TRA-1.2771 TC3 .0684 BAU .2800 SGT 1978.8 SGR 3482.4 SG3 768.8 ST 894.5 SR 1234.8 SS 1386.7
 RDE -.5298 RRA-2.2302 RC3 1.3273 FAU .06310 RRT .9530 RRF -.9996 RTF -.9541 CRT .9726 CRS .9984 CST .9842
 FDE 1.5060 FRA 5.6467 FC3-3.4674 BSP 12782 SGB 4005.4 R23 -.0685 R13 -.9973 LSA 2053.8 MSA 171.2 SSA 5.4
 BDE .7189 BRA 2.5700 BC3 1.3291 FSP -2391 SG1 3970.7 SG2 525.7 THA 61.01 EL1 1515.2 EL2 169.5 ALF 54.32

LAUNCH DATE NOV 27 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 444.395

RL 147.60 LAL .00 LOL 64.82 VL 27.809 GAL 5.26 AZL 90.41 MCA 190.33 SMA 129.48 ECC .16684 INC .4075 V1 30.186
 RP 108.62 LAP .07 LOP 255.15 VP 37.666 GAP -2.52 AZP 89.60 TAL 151.90 TAP 342.23 RCA 107.88 APO 151.08 V2 34.889
 RC 65.076 GL -3.00 GP 37.58 ZAL 41.22 ZAP 63.09 ETS 339.29 ZAE 145.13 ETE 81.97 ZAC 99.77 ETC 155.72 CLP -55.17

PLANETOCENTRIC CONIC

C3 14.409 VHL 3.796 CLA 6.41 RAL 23.04 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 4.087 DPA 38.84 RAP 1.05 ECC 1.2371
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 41 3 2338.94 -22.38 49.52 240.84 107.82 8 20 2 1738.9 -19.73 41.84
 90.00 21 15 7 4582.97 12.07 193.69 238.46 64.19 22 31 30 3983.0 8.50 186.83
 100.00 9 5 26 2066.74 -23.36 29.14 240.48 109.20 9 39 53 1466.7 -20.53 21.49
 100.00 22 33 24 4330.40 13.00 174.64 237.99 62.84 23 45 35 3730.4 9.25 167.85
 110.00 10 20 40 1831.33 -25.98 10.15 239.37 113.04 10 51 11 1231.3 -22.63 2.60
 110.00 23 34 40 4138.57 15.45 158.68 236.58 59.12 24 43 39 3538.6 11.24 152.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4257 TRA-1.0027 TC3 -.0259 BAU .2464 SGT 1653.2 SGR 3060.9 SG3 1083.0 ST 788.5 SR 1236.3 SS 1882.8
 RDE -.6091 RRA-1.8128 RC3 1.2788 FAU .08868 RRT .9417 RRF -.9994 RTF -.9418 CRT .9932 CRS .9984 CST .9981
 FDE 2.7559 FRA 7.3156 FC3-5.3279 BSP 11215 SGB 3478.8 R23 -.0728 R13 -.9968 LSA 2385.0 MSA 81.4 SSA 12.1
 BDE .7431 BRA 2.0716 BC3 1.2791 FSP -3348 SG1 3443.5 SG2 494.4 THA 62.42 EL1 1464.3 EL2 77.3 ALF 57.55

LAUNCH DATE NOV 27 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 450.841

RL 147.60 LAL .00 LOL 64.82 VL 27.826 GAL 5.22 AZL 89.51 MCA 193.51 SMA 129.60 ECC .16551 INC .4904 V1 30.186
 RP 108.65 LAP -.11 LOP 258.33 VP 37.669 GAP -2.06 AZP 90.48 TAL 151.88 TAP 345.39 RCA 108.15 APO 151.06 V2 34.878
 RC 67.198 GL 3.60 GP 31.49 ZAL 41.24 ZAP 65.09 ETS 345.49 ZAE 151.18 ETE 86.10 ZAC 100.86 ETC 157.76 CLP -60.40

PLANETOCENTRIC CONIC

C3 14.214 VHL 3.770 CLA 12.55 RAL 20.58 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 3.666 DPA 32.72 RAP 3.00 ECC 1.2339
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 41 53 2536.48 -25.86 62.93 240.25 101.97 7 24 9 1936.5 -23.95 54.79
 90.00 21 54 38 4379.39 5.80 182.02 235.85 62.23 23 7 38 3779.4 2.04 175.36
 100.00 8 9 41 2253.32 -26.95 41.83 239.97 103.45 8 47 14 1653.3 -24.83 33.67
 100.00 23 9 31 4137.79 6.78 163.72 235.31 60.82 24 18 29 3537.8 2.84 157.15
 110.00 9 32 29 1994.20 -29.84 21.25 239.07 107.51 10 5 44 1394.2 -27.15 13.09
 110.00 0 7 8 3969.66 9.35 149.40 233.75 56.97 1 13 18 3369.7 4.93 143.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3447 TRA -.7612 TC3 -.1523 BAU .2225 SGT 1300.9 SGR 2733.5 SG3 1333.1 ST 633.2 SR 1189.7 SS 2274.4
 RDE -.6213 RRA-1.5487 RC3 1.1612 FAU .10841 RRT .9145 RRF -.9990 RTF -.9143 CRT .9980 CRS .9980 CST .9996
 FDE 3.9229 FRA 8.5631 FC3-6.6032 BSP 9891 SGB 3027.2 R23 -.0702 R13 -.9965 LSA 2642.8 MSA 66.4 SSA 16.1
 BDE .7105 BRA 1.7256 BC3 1.1711 FSP -4147 SG1 2988.7 SG2 481.5 THA 65.81 EL1 1347.2 EL2 35.6 ALF 62.00

LAUNCH DATE NOV 27 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 457.267

RL 147.60 LAL .00 LOL 64.82 VL 27.841 GAL 5.19 AZL 88.95 MCA 196.68 SMA 129.71 ECC .16445 INC 1.0526 V1 30.186
 RP 108.68 LAP -.30 LOP 261.50 VP 37.670 GAP -1.61 AZP 91.01 TAL 151.84 TAP 348.52 RCA 108.38 APO 151.04 V2 34.867
 RC 69.360 GL 7.75 GP 27.28 ZAL 41.71 ZAP 68.58 ETS 350.15 ZAE 155.19 ETE 92.71 ZAC 100.80 ETC 159.50 CLP -65.73

PLANETOCENTRIC CONIC

C3 14.276 VHL 3.778 CLA 16.39 RAL 18.97 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 3.401 DPA 28.13 RAP 3.40 ECC 1.2349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 49 2673.17 -27.42 72.63 240.22 97.36 6 45 22 2073.2 -26.12 64.20
 90.00 22 22 51 4244.61 1.48 174.47 234.81 61.72 23 33 36 3644.6 -2.31 167.84
 100.00 7 31 23 2381.13 -28.64 50.95 240.02 98.94 8 11 4 1781.1 -27.11 42.48
 100.00 23 34 59 4011.88 2.56 156.76 234.21 60.21 24 41 51 3411.9 -1.43 150.24
 110.00 9 0 1 2103.79 -31.82 29.17 239.30 103.21 9 35 5 1503.8 -29.67 20.61
 110.00 0 26 45 3861.99 5.31 143.68 232.50 56.18 1 31 7 3262.0 .83 137.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2348 TRA -.5196 TC3 -.3047 BAU .2086 SGT 924.4 SGR 2478.7 SG3 1538.6 ST 433.1 SR 1126.6 SS 2586.1
 RDE -.6075 RRA-1.3666 RC3 1.0497 FAU .12371 RRT .8378 RRF -.9984 RTF -.8374 CRT .9993 CRS .9974 CST .9973
 FDE 4.9742 FRA 9.5545 FC3-7.5024 BSP 8643 SGB 2645.5 R23 -.0580 R13 -.9967 LSA 2852.8 MSA 77.9 SSA 15.1
 BDE .6513 BRA 1.4621 BC3 1.0930 FSP -4802 SG1 2601.4 SG2 480.9 THA 72.01 EL1 1206.9 EL2 15.3 ALF 68.98

LAUNCH DATE NOV 27 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 27.853 GAL 5.17 AZL 88.56 HCA 199.86 SMA 129.79 ECC .16365 INC 1.4394 V1 30.186
 RP 108.72 LAP -.49 LOP 264.67 VP 37.670 GAP -1.18 AZP 91.35 TAL 151.77 TAP 351.63 RCA 108.55 APO 151.03 V2 34.858
 RC 71.560 GL 10.58 GP 24.16 ZAL 42.19 ZAP 72.94 ETS 353.74 ZAE 157.69 ETE 101.87 ZAC 99.99 ETC 161.02 CLP -71.24

DISTANCE 463.671

PLANETOCENTRIC CONIC
 C3 14.415 VHL 3.797 DLA 19.01 RAL 17.86 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 3.220 DPA 24.39 RAP 2.91 ECC 1.2372
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 47 2776.24 -28.10 80.09 240.33 93.67 6 16 3 2176.2 -27.29 71.52
 90.00 22 45 0 4145.83 -1.71 168.96 234.44 61.73 23 54 6 3545.8 -5.48 162.30
 100.00 7 2 48 2476.29 -29.45 57.91 240.21 95.37 7 44 4 1876.3 -28.40 49.26
 100.00 23 54 41 3921.01 -.52 151.77 233.78 60.11 25 0 2 3321.0 -4.50 145.24
 110.00 8 36 20 2183.63 -32.90 35.14 239.67 99.83 9 12 44 1583.6 -31.20 26.33
 110.00 0 41 33 3786.43 2.43 139.72 231.93 55.89 1 44 40 3186.4 -2.06 133.52

DIFFERENTIAL CORRECTIONS
 TDE -.0963 TRA -.2687 TC3 -.4756 BAU .2059 SGT 579.2 SGR 2264.6 SG3 1704.9 ST 194.4 SR 1052.7 SS 2827.5
 RDE -.5786 RRA-1.2274 RC3 .9568 FAU .13608 RRT .5374 RRF -.9975 RTF -.5358 CRT .9884 CRS .9965 CST .9740
 FDE 5.8820 FRA10.3336 FC3-8.1726 BSP 7541 SGB 2337.5 R23 -.0306 R13 -.9970 LSA 3022.0 MSA 91.8 SSA 14.0
 BDE .5865 BRA 1.2565 BC3 1.0685 FSP -5362 SG1 2286.9 SG2 483.7 THA 81.80 EL1 1070.1 EL2 29.1 ALF 79.65

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 27.863 GAL 5.16 AZL 88.28 HCA 203.03 SMA 129.86 ECC .16312 INC 1.7234 V1 30.186
 RP 108.74 LAP -.67 LOP 267.84 VP 37.668 GAP -.74 AZP 91.59 TAL 151.67 TAP 354.70 RCA 108.68 APO 151.04 V2 34.848
 RC 73.792 GL 12.62 GP 21.71 ZAL 42.60 ZAP 77.85 ETS 356.57 ZAE 158.84 ETE 112.97 ZAC 98.66 ETC 162.33 CLP -76.91

DISTANCE 470.054

PLANETOCENTRIC CONIC
 C3 14.589 VHL 3.820 DLA 20.92 RAL 17.07 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 3.094 DPA 21.17 RAP 1.87 ECC 1.2401
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 59 2858.88 -28.31 86.13 240.50 90.66 5 52 38 2258.9 -27.92 77.48
 90.00 23 3 31 4068.52 -4.19 164.64 234.43 61.97 24 11 19 3468.5 -7.91 157.93
 100.00 6 40 19 2551.47 -29.80 63.47 240.45 92.46 7 22 51 1951.5 -29.14 54.72
 100.00 0 14 48 3851.16 -2.89 147.94 233.71 60.23 1 18 59 3251.2 -6.83 141.37
 110.00 8 18 12 2245.26 -33.52 39.84 240.09 97.11 8 55 37 1645.3 -32.18 30.87
 110.00 0 53 25 3730.13 .28 136.79 231.73 55.82 1 55 35 3130.1 -4.21 130.57

DIFFERENTIAL CORRECTIONS
 TDE .0660 TRA -.0084 TC3 -.6632 BAU .2141 SGT 516.4 SGR 2074.1 SG3 1833.7 ST 100.3 SR 973.1 SS 3012.9
 RDE -.5411 RRA-1.1133 RC3 .8746 FAU .14536 RRT -.3686 RRF -.9962 RTF .3731 CRT -.8047 CRS .9952 CST -.8570
 FDE 6.6432 FRA10.9231 FC3-8.6262 BSP 6635 SGB 2137.4 R23 .0158 R13 -.9961 LSA 3166.0 MSA 103.9 SSA 13.3
 BDE .5451 BRA 1.1134 BC3 1.0977 FSP -5811 SG1 2083.3 SG2 477.9 THA 95.54 EL1 976.5 EL2 59.3 ALF 94.76

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 27.870 GAL 5.17 AZL 88.06 HCA 206.20 SMA 129.91 ECC .16283 INC 1.9413 V1 30.186
 RP 108.77 LAP -.86 LOP 271.00 VP 37.665 GAP -.32 AZP 91.74 TAL 151.55 TAP 357.75 RCA 108.76 APO 151.07 V2 34.839
 RC 76.053 GL 14.15 GP 19.68 ZAL 42.91 ZAP 83.12 ETS 358.85 ZAE 158.70 ETE 124.68 ZAC 96.98 ETC 163.46 CLP -82.69

DISTANCE 476.415

PLANETOCENTRIC CONIC
 C3 14.789 VHL 3.846 DLA 22.37 RAL 16.51 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 3.011 DPA 18.27 RAP .49 ECC 1.2434
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 44 25 2928.20 -28.26 91.20 240.70 88.12 5 33 13 2328.2 -28.22 82.53
 90.00 23 19 39 4005.26 -6.21 161.08 234.65 62.32 24 26 24 3405.3 -9.87 154.31
 100.00 6 22 2 2613.47 -29.89 68.07 240.73 90.04 7 5 35 2013.5 -29.57 59.28
 100.00 0 28 39 3795.22 -4.77 144.86 233.87 60.46 1 31 54 3195.2 -8.67 138.24
 110.00 8 3 51 2294.91 -33.88 43.68 240.53 94.87 8 42 6 1694.9 -32.83 34.60
 110.00 1 3 19 3686.55 -1.39 134.51 231.76 55.84 2 4 45 3086.6 -5.86 128.28

DIFFERENTIAL CORRECTIONS
 TDE .2486 TRA .2601 TC3 -.8585 BAU .2322 SGT 865.3 SGR 1894.0 SG3 1920.8 ST 391.6 SR 886.3 SS 3140.9
 RDE -.4958 RRA-1.0126 RC3 .8014 FAU .15199 RRT -.8324 RRF -.9945 RTF .8388 CRT -.9665 CRS .9933 CST -.9893
 FDE 7.2252 FRA11.3020 FC3-8.8974 BSP 6104 SGB 2082.3 R23 .0680 R13 -.9924 LSA 3284.9 MSA 114.5 SSA 12.9
 BDE .5546 BRA 1.0455 BC3 1.1744 FSP -6161 SG1 2033.8 SG2 446.5 THA 111.93 EL1 964.5 EL2 92.3 ALF 113.35

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 64.82 VL 27.875 GAL 5.20 AZL 87.88 HCA 209.37 SMA 129.95 ECC .16278 INC 2.1153 V1 30.186
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.662 GAP .11 AZP 91.84 TAL 151.39 TAP .76 RCA 108.80 APO 151.10 V2 34.831
 RC 78.340 GL 15.33 GP 17.93 ZAL 43.12 ZAP 88.59 ETS .70 ZAE 157.45 ETE 135.52 ZAC 95.11 ETC 164.41 CLP -88.51

DISTANCE 482.754

PLANETOCENTRIC CONIC
 C3 15.016 VHL 3.875 DLA 23.50 RAL 16.13 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 2.965 DPA 15.61 RAP 358.91 ECC 1.2471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 26 54 2988.39 -28.05 95.59 240.95 85.93 5 16 42 2388.4 -28.32 86.93
 90.00 23 34 8 3951.87 -7.89 158.05 235.04 62.72 24 40 0 3351.9 -11.48 151.22
 100.00 6 6 48 2666.28 -29.83 72.00 241.06 87.97 6 51 14 2066.3 -29.79 63.19
 100.00 0 40 51 3749.21 -6.31 142.31 234.19 60.72 1 43 21 3149.2 -10.17 135.64
 110.00 7 52 18 2336.22 -34.07 46.89 241.02 92.98 8 31 14 1736.2 -33.28 37.74
 110.00 1 11 51 3652.04 -2.70 132.71 231.95 55.91 2 12 43 3052.0 -7.16 126.46

DIFFERENTIAL CORRECTIONS
 TDE .4442 TRA .5315 TC3 -1.0589 BAU .2585 SGT 1356.2 SGR 1719.9 SG3 1964.9 ST 705.8 SR 794.4 SS 3216.7
 RDE -.4448 RRA -.9206 RC3 .7326 FAU .15560 RRT -.9303 RRF -.9921 RTF .9387 CRT -.9754 CRS .9905 CST -.9963
 FDE 7.6184 FRA11.4692 FC3-8.9709 BSP 6087 SGB 2190.3 R23 .0978 R13 -.9882 LSA 3385.4 MSA 123.5 SSA 12.7
 BDE .6286 BRA 1.0630 BC3 1.2876 FSP -6395 SG1 2153.9 SG2 397.3 THA 127.77 EL1 1056.2 EL2 117.1 ALF 131.53

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 27 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 489.071

RL 147.60 LAL .00 LOL 64.82 VL 27.879 GAL 5.23 AZL 87.74 MCA 212.54 SMA 129.97 ECC .16298 INC 2.2581 V1 30.186
 RP 108.82 LAP -1.21 LOP 277.33 VP 37.657 GAP .52 AZP 91.90 TAL 151.20 TAP 3.73 RCA 108.79 APO 151.16 V2 34.824
 RC 80.651 GL 16.25 GP 16.38 ZAL 43.24 ZAP 94.11 ETS 2.21 ZAE 155.36 ETE 144.61 ZAC 93.16 ETC 165.17 CLP -94.29

PLANETOCENTRIC CONIC

C3 15.273 VHL 3.908 CLA 24.41 RAL 15.90 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 2.951 OPA 13.15 RAP 357.27 ECC 1.2514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 41 3042.05 -27.73 99.48 241.26 84.00 5 2 23 2442.1 -28.27 90.86
 90.00 23 47 28 3905.83 -9.31 155.42 235.56 63.14 24 52 34 3305.8 -12.84 148.52
 100.00 5 53 56 2712.37 -29.67 75.41 241.45 86.18 6 39 9 2112.4 -29.88 66.62
 100.00 0 51 50 3710.74 -7.59 140.16 234.63 61.00 1 53 41 3110.7 -11.40 133.45
 110.00 7 42 54 2371.48 -34.16 49.64 241.56 91.35 8 22 25 1771.5 -33.59 40.44
 110.00 1 19 22 3624.39 -3.76 131.26 232.28 56.00 2 19 46 3024.4 -8.20 124.99

DIFFERENTIAL CORRECTIONS

TOE .6472 TRA .8014 TC3-1.2566 BAU .2905
 RDE -.3899 RRA -.8354 RC3 .6669 FAU .15615
 FDE 7.8205 FRA11.4362 FC3-8.8512 BSP 6613
 BOE .7556 BRA 1.1577 BC3 1.4226 FSP -6506

MID-COURSE EXECUTION ACCURACY

SGT 1878.7 SGR 1551.7 SG3 1967.1
 RRT -.9570 RRF -.9887 RTF .9686
 SGB 2436.7 R23 .0967 R13 -.9870
 SG1 2411.3 SG2 350.7 THA 140.68

ORBIT DETERMINATION ACCURACY

ST 1025.2 SR 699.9 SS 3244.8
 CRT -.9743 CRS .9863 CST -.9980
 LSA 3471.6 MSA 131.5 SSA 12.5
 EL1 1234.4 EL2 131.0 ALF 145.93

LAUNCH DATE NOV 27 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 495.365

RL 147.60 LAL .00 LOL 64.82 VL 27.880 GAL 5.29 AZL 87.62 MCA 215.70 SMA 129.98 ECC .16342 INC 2.3779 V1 30.186
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.651 GAP .94 AZP 91.93 TAL 150.97 TAP 6.67 RCA 108.74 APO 151.22 V2 34.816
 RC 82.981 GL 16.98 GP 14.99 ZAL 43.28 ZAP 99.59 ETS 3.44 ZAE 152.75 ETE 151.79 ZAC 91.23 ETC 165.77 CLP -99.93

PLANETOCENTRIC CONIC

C3 15.564 VHL 3.945 CLA 25.15 RAL 15.78 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 2.966 OPA 10.88 RAP 355.67 ECC 1.2561
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 58 18 3090.89 -27.33 103.00 241.62 82.28 4 49 49 2490.9 -28.11 94.42
 90.00 0 3 53 3865.50 -10.54 153.10 236.19 63.57 1 8 18 3265.5 -14.01 146.14
 100.00 5 43 0 2753.33 -29.45 78.44 241.90 84.60 6 28 53 2153.3 -29.88 69.66
 100.00 1 1 52 3678.29 -8.65 138.34 235.19 61.28 2 3 10 3078.3 -12.42 131.58
 110.00 7 35 14 2402.18 -34.18 52.04 242.16 89.94 8 15 16 1802.2 -33.81 42.81
 110.00 1 26 7 3602.21 -4.60 130.10 232.71 56.09 2 26 9 3002.2 -9.02 123.80

DIFFERENTIAL CORRECTIONS

TOE .8518 TRA 1.0657 TC3-1.4449 BAU .3258
 RDE -.3332 RRA -.7567 RC3 .6035 FAU .15357
 FDE 7.8472 FRA11.2264 FC3-8.5423 BSP 7558
 BOE .9147 BRA 1.3070 BC3 1.5659 FSP -6487

MID-COURSE EXECUTION ACCURACY

SGT 2398.7 SGR 1391.0 SG3 1931.5
 RRT -.9643 RRF -.9838 RTF .9806
 SGB 2772.8 R23 .0793 R13 -.9880
 SG1 2754.2 SG2 320.9 THA 150.34

ORBIT DETERMINATION ACCURACY

ST 1339.7 SR 605.9 SS 3232.5
 CRT -.9684 CRS .9796 CST -.9987
 LSA 3548.4 MSA 138.7 SSA 12.3
 EL1 1463.8 EL2 138.2 ALF 156.12

LAUNCH DATE NOV 27 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 501.638

RL 147.60 LAL .00 LOL 64.82 VL 27.879 GAL 5.35 AZL 87.52 MCA 218.87 SMA 129.98 ECC .16409 INC 2.4806 V1 30.186
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.645 GAP 1.35 AZP 91.93 TAL 150.71 TAP 9.58 RCA 108.65 APO 151.30 V2 34.810
 RC 85.328 GL 17.54 GP 13.71 ZAL 43.24 ZAP 104.93 ETS 4.44 ZAE 149.86 ETE 157.30 ZAC 89.42 ETC 166.21 CLP -105.37

PLANETOCENTRIC CONIC

C3 15.894 VHL 3.987 CLA 25.76 RAL 15.77 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 3.008 OPA 8.80 RAP 354.17 ECC 1.2616
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 46 24 3136.08 -26.87 106.23 242.06 80.72 4 38 40 2536.1 -27.88 97.71
 90.00 0 15 42 3829.79 -11.62 151.03 236.94 63.99 1 19 32 3229.8 -15.02 144.00
 100.00 5 33 40 2790.22 -29.18 81.15 242.43 83.20 6 20 11 2190.2 -29.81 72.40
 100.00 1 11 7 3650.88 -9.55 136.80 235.85 61.54 2 11 57 3050.9 -13.28 130.00
 110.00 7 29 1 2429.32 -34.16 54.16 242.84 88.68 8 9 31 1829.3 -33.97 44.92
 110.00 1 32 15 3584.55 -5.27 129.17 233.25 56.18 2 32 0 2984.5 -9.68 122.86

DIFFERENTIAL CORRECTIONS

TOE 1.0544 TRA 1.3225 TC3-1.6163 BAU .3622
 RDE -.2774 RRA -.6853 RC3 .5416 FAU .14779
 FDE 7.7372 FRA10.8866 FC3-8.0504 BSP 8726
 BOE 1.0903 BRA 1.4894 BC3 1.7047 FSP -6326

MID-COURSE EXECUTION ACCURACY

SGT 2900.2 SGR 1241.4 SG3 1866.4
 RRT -.9633 RRF -.9770 RTF .9862
 SGB 3154.7 R23 .0602 R13 -.9895
 SG1 3139.7 SG2 307.7 THA 157.36

ORBIT DETERMINATION ACCURACY

ST 1642.8 SR 516.4 SS 3192.1
 CRT -.9574 CRS .9688 CST -.9991
 LSA 3624.1 MSA 145.0 SSA 12.2
 EL1 1716.1 EL2 142.7 ALF 163.13

LAUNCH DATE NOV 27 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 507.887

RL 147.60 LAL .00 LOL 64.82 VL 27.877 GAL 5.43 AZL 87.43 MCA 222.03 SMA 129.96 ECC .16499 INC 2.5701 V1 30.186
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.638 GAP 1.75 AZP 91.91 TAL 150.41 TAP 12.44 RCA 108.52 APO 151.40 V2 34.804
 RC 87.691 GL 17.97 GP 12.55 ZAL 43.13 ZAP 110.05 ETS 5.25 ZAE 146.89 ETE 161.48 ZAC 87.80 ETC 166.51 CLP -110.56

PLANETOCENTRIC CONIC

C3 16.265 VHL 4.033 CLA 26.27 RAL 15.86 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 3.075 OPA 6.93 RAP 352.84 ECC 1.2677
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 35 45 3178.42 -26.37 109.23 242.56 79.30 4 28 44 2578.4 -27.58 100.77
 90.00 0 27 1 3797.97 -12.56 149.16 237.78 64.41 1 30 19 3198.0 -15.90 142.08
 100.00 5 25 46 2823.75 -28.88 83.60 243.03 81.95 6 12 50 2223.8 -29.70 74.89
 100.00 1 19 41 3627.87 -10.29 135.50 236.60 61.78 2 20 9 3027.9 -13.98 128.65
 110.00 7 24 3 2453.63 -34.11 56.05 243.59 87.56 8 4 57 1853.6 -34.07 46.81
 110.00 1 37 53 3570.76 -5.79 128.45 233.88 56.25 2 37 24 2970.8 -10.19 122.11

DIFFERENTIAL CORRECTIONS

TOE 1.2490 TRA 1.5673 TC3-1.7696 BAU .3991
 RDE -.2219 RRA -.6198 RC3 .4863 FAU .14061
 FDE 7.4900 FRA10.4269 FC3-7.4843 BSP 10027
 BOE 1.2685 BRA 1.6854 BC3 1.8352 FSP -6108

MID-COURSE EXECUTION ACCURACY

SGT 3369.2 SGR 1103.4 SG3 1776.0
 RRT -.9570 RRF -.9675 RTF .9893
 SGB 3545.3 R23 .0444 R13 -.9909
 SG1 3532.1 SG2 305.4 THA 162.46

ORBIT DETERMINATION ACCURACY

ST 1924.9 SR 431.6 SS 3118.8
 CRT -.9380 CRS .9506 CST -.9992
 LSA 3687.2 MSA 151.1 SSA 12.1
 EL1 1967.2 EL2 146.4 ALF 168.05

LAUNCH DATE NOV 27 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 514.113

RL 147.60 LAL .00 LOL 64.82 VL 27.873 GAL 5.53 AZL 87.35 HCA 225.20 SMA 129.93 ECC .16612 INC 2.6492 V1 30.186
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.630 GAP 2.16 AZP 91.87 TAL 150.08 TAP 15.28 RCA 108.35 APO 151.52 V2 34.799
 RC 90.065 GL 18.30 GP 11.49 ZAL 42.96 ZAP 114.92 ETS 5.91 ZAE 143.97 ETE 164.66 ZAC 86.41 ETC 166.69 CLP-115.46

PLANETOCENTRIC CONIC

C3 16.684 VHL 4.085 CLA 26.69 RAL 16.03 RAD 6567.7 VEL 11.750 PTH 2.07 VHP 3.164 DPA 5.27 RAP 351.71 ECC 1.2746
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 26 12 3218.46 -25.84 112.04 243.15 77.99 4 19 51 2618.5 -27.23 103.65
 90.00 0 37 54 3769.54 -13.39 147.49 238.71 64.81 1 40 44 3169.5 -16.68 140.35
 100.00 5 19 8 2854.43 -28.57 85.82 243.72 80.81 6 6 42 2254.4 -29.54 77.15
 100.00 1 27 40 3608.81 -10.90 134.41 237.44 61.99 2 27 49 3008.8 -14.56 127.54
 110.00 7 20 11 2475.63 -34.03 57.77 244.43 86.55 8 1 27 1875.6 -34.13 48.52
 110.00 1 43 6 3560.37 -6.19 127.90 234.59 56.31 2 42 26 2960.4 -10.57 121.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4340 TRA 1.8007 TC3-1.9014 BAU .4351 SGT 3801.5 SGR 979.9 SG3 1670.4 ST 2183.5 SR 355.4 SS 3026.4
 RDE -.1691 RRA -.5614 RC3 .4362 FAU .13207 RRT -.9456 RRF -.9543 RTF .9910 CRT -.9045 CRS .9191 CST -.9993
 FDE 7.1575 FRA 9.9011 FC3-6.8535 BSP 11347 SGB 3925.8 R23 .0333 R13 -.9919 LSA 3745.5 MSA 156.8 SSA 12.1
 BDE 1.4439 BRA 1.8862 BC3 1.9508 FSP -5822 SG1 3913.6 SG2 309.6 THA 166.21 EL1 2207.1 EL2 149.9 ALF 171.59

LAUNCH DATE NOV 27 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 520.316

RL 147.60 LAL .00 LOL 64.82 VL 27.868 GAL 5.64 AZL 87.28 HCA 228.36 SMA 129.90 ECC .16749 INC 2.7200 V1 30.186
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.622 GAP 2.57 AZP 91.81 TAL 149.71 TAP 18.07 RCA 108.14 APO 151.65 V2 34.795
 RC 92.449 GL 18.53 GP 10.53 ZAL 42.72 ZAP 119.49 ETS 6.44 ZAE 141.17 ETE 167.10 ZAC 85.28 ETC 166.78 CLP-120.05

PLANETOCENTRIC CONIC

C3 17.153 VHL 4.142 CLA 27.04 RAL 16.27 RAD 6567.7 VEL 11.770 PTH 2.08 VHP 3.273 DPA 3.83 RAP 350.82 ECC 1.2823
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 38 3256.61 -25.27 114.68 243.81 76.78 4 11 55 2656.6 -26.84 106.37
 90.00 0 48 25 3744.16 -14.12 145.98 239.74 65.20 1 50 50 3144.2 -17.35 138.79
 100.00 5 13 40 2882.58 -28.25 87.85 244.50 79.79 6 1 42 2282.6 -29.37 79.23
 100.00 1 35 5 3593.42 -11.39 133.53 238.35 62.18 2 34 58 2993.4 -15.03 126.63
 110.00 7 17 18 2495.71 -33.94 59.33 245.35 85.63 7 58 54 1895.7 -34.17 50.09
 110.00 1 47 56 3553.05 -6.46 127.51 235.39 56.36 2 47 9 2953.1 -10.84 121.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6089 TRA 2.0238 TC3-2.0082 BAU .4691 SGT 4195.4 SGR 871.6 SG3 1556.9 ST 2417.8 SR 289.7 SS 2922.2
 RDE -.1195 RRA -.5101 RC3 .3907 FAU .12249 RRT -.9289 RRF -.9363 RTF .9921 CRT -.8461 CRS .8638 CST -.9994
 FDE 6.7736 FRA 9.3452 FC3-6.1826 BSP 12620 SGB 4285.0 R23 .0257 R13 -.9925 LSA 3800.3 MSA 162.1 SSA 12.0
 BDE 1.6133 BRA 2.0871 BC3 2.0458 FSP -5489 SG1 4273.2 SG2 317.0 THA 169.02 EL1 2430.2 EL2 153.6 ALF 174.19

LAUNCH DATE NOV 27 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 526.495

RL 147.60 LAL .00 LOL 64.82 VL 27.861 GAL 5.77 AZL 87.22 HCA 231.52 SMA 129.85 ECC .16910 INC 2.7842 V1 30.186
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.614 GAP 2.97 AZP 91.73 TAL 149.31 TAP 20.83 RCA 107.89 APO 151.81 V2 34.791
 RC 94.840 GL 18.68 GP 9.66 ZAL 42.43 ZAP 123.77 ETS 6.87 ZAE 138.56 ETE 168.98 ZAC 84.42 ETC 166.81 CLP-124.33

PLANETOCENTRIC CONIC

C3 17.677 VHL 4.204 CLA 27.33 RAL 16.59 RAD 6567.7 VEL 11.792 PTH 2.09 VHP 3.400 DPA 2.60 RAP 350.16 ECC 1.2909
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 9 59 3293.07 -24.68 117.19 244.55 75.65 4 4 53 2693.1 -26.41 108.95
 90.00 0 58 36 3721.65 -14.76 144.64 240.85 65.56 2 0 37 3121.6 -17.94 137.40
 100.00 5 9 18 2908.43 -27.92 89.71 245.37 78.87 5 57 47 2308.4 -29.17 81.13
 100.00 1 41 58 3581.52 -11.77 132.85 239.35 62.32 2 41 39 2981.5 -15.38 125.92
 110.00 7 15 18 2514.18 -33.83 60.76 246.36 84.79 7 57 12 1914.2 -34.18 51.53
 110.00 1 52 28 3548.54 -6.63 127.27 236.26 56.39 2 51 36 2948.5 -11.01 120.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7727 TRA 2.2374 TC3-2.0912 BAU .5011 SGT 4550.4 SGR 778.6 SG3 1441.1 ST 2626.5 SR 236.5 SS 2810.3
 RDE -.0735 RRA -.4652 RC3 .3505 FAU .11259 RRT -.9059 RRF -.9125 RTF .9926 CRT -.7449 CRS .7666 CST -.9994
 FDE 6.3619 FRA 8.7838 FC3-5.5143 BSP 13823 SGB 4616.5 R23 .0205 R13 -.9929 LSA 3850.2 MSA 167.1 SSA 12.1
 BDE 1.7742 BRA 2.2852 BC3 2.1204 FSP -5133 SG1 4605.0 SG2 325.9 THA 171.15 EL1 2632.4 EL2 157.4 ALF 176.15

LAUNCH DATE NOV 27 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 532.650

RL 147.60 LAL .00 LOL 64.82 VL 27.853 GAL 5.91 AZL 87.16 HCA 234.68 SMA 129.79 ECC .17094 INC 2.8430 V1 30.186
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.605 GAP 3.38 AZP 91.64 TAL 148.87 TAP 23.56 RCA 107.61 APO 151.98 V2 34.788
 RC 97.236 GL 18.76 GP 8.88 ZAL 42.08 ZAP 127.75 ETS 7.24 ZAE 136.15 ETE 170.44 ZAC 83.83 ETC 166.80 CLP-128.29

PLANETOCENTRIC CONIC

C3 18.263 VHL 4.274 CLA 27.56 RAL 16.97 RAD 6567.7 VEL 11.817 PTH 2.09 VHP 3.544 DPA 1.57 RAP 349.75 ECC 1.3006
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 3 14 3327.95 -24.07 119.57 245.38 74.61 3 58 42 2728.0 -25.95 111.40
 90.00 1 8 24 3701.97 -15.31 143.46 242.04 65.89 2 10 6 3102.0 -18.44 136.18
 100.00 5 6 1 2932.15 -27.60 91.39 246.33 78.04 5 54 53 2332.1 -28.97 82.86
 100.00 1 48 18 3573.00 -12.04 132.36 240.41 62.43 2 47 51 2973.0 -15.64 125.42
 110.00 7 14 6 2531.29 -33.72 62.08 247.45 84.01 7 56 18 1931.3 -34.18 52.87
 110.00 1 56 42 3546.63 -6.70 127.17 237.22 56.40 2 55 49 2946.6 -11.08 120.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9286 TRA 2.4459 TC3-2.1460 BAU .5296 SGT 4871.6 SGR 700.2 SG3 1328.4 ST 2814.3 SR 198.3 SS 2699.6
 RDE -.0312 RRA -.4267 RC3 .3140 FAU .10218 RRT -.8759 RRF -.8819 RTF .9928 CRT -.5799 CRS .6062 CST -.9994
 FDE 5.9543 FRA 8.2466 FC3-4.8436 BSP 14880 SGB 4921.7 R23 .0168 R13 -.9930 LSA 3900.9 MSA 171.9 SSA 12.2
 BDE 1.9288 BRA 2.4828 BC3 2.1689 FSP -4746 SG1 4910.2 SG2 335.2 THA 172.79 EL1 2816.6 EL2 161.4 ALF 177.65

LAUNCH DATE NOV 27 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 538.779

RL 147.60 LAL .00 LOL 64.82 VL 27.844 GAL 6.07 AZL 87.10 HCA 237.85 SMA 129.73 ECC .17304 INC 2.8973 V1 30.186
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.597 GAP 3.79 AZP 91.54 TAL 148.40 TAP 26.25 RCA 107.28 APO 152.18 V2 34.786
 RC 99.636 GL 18.77 GP 8.18 ZAL 41.69 ZAP 131.44 ETS 7.55 ZAE 133.95 ETE 171.59 ZAC 83.50 ETC 166.75 CLP-131.96

PLANETOCENTRIC CONIC

C3 18.915 VHL 4.349 OLA 27.75 RAL 17.41 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 3.702 DPA .72 RAP 349.56 ECC 1.3113
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 57 23 3361.15 -23.45 121.80 246.29 73.66 3 53 24 2761.1 -25.47 113.71
 90.00 1 17 46 3685.25 -15.77 142.45 243.31 66.17 2 19 11 3085.3 -18.86 135.13
 100.00 5 3 45 2953.82 -27.28 92.93 247.39 77.29 5 52 58 2353.8 -28.76 84.44
 100.00 1 54 5 3567.81 -12.20 132.06 241.54 62.50 2 53 33 2967.8 -15.79 125.11
 110.00 7 13 40 2547.23 -33.60 63.31 248.64 83.29 7 56 7 1947.2 -34.16 54.11
 110.00 2 0 40 3547.17 -6.68 127.20 238.24 56.40 2 59 47 2947.2 -11.06 120.84

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.0726 TRA 2.6467 TC3-2.1831 BAU .5567 SGT 5155.9 SGR 634.8 SG3 1219.5 ST 2975.8 SR 176.0 SS 2584.4
 RDE .0082 RRA -.3930 RC3 .2829 FAU .09261 RRT -.8380 RRF -.8434 RTF .9929 CRT -.3404 CRS .3708 CST -.9994
 FDE 5.5446 FRA 7.7266 FC3-4.2385 BSP 15899 SGB 5194.8 R23 .0140 R13 -.9930 LSA 3941.3 MSA 176.5 SSA 12.2
 BDE 2.0726 BRA 2.6757 BC3 2.2013 FSP -4391 SG1 5183.4 SG2 344.5 THA 174.08 EL1 2976.4 EL2 165.5 ALF 178.84

LAUNCH DATE NOV 27 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 544.883

RL 147.60 LAL .00 LOL 64.82 VL 27.834 GAL 6.25 AZL 87.05 HCA 241.01 SMA 129.66 ECC .17538 INC 2.9481 V1 30.186
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.588 GAP 4.20 AZP 91.43 TAL 147.90 TAP 28.91 RCA 106.92 APO 152.40 V2 34.784
 RC 102.038 GL 18.73 GP 7.56 ZAL 41.25 ZAP 134.86 ETS 7.83 ZAE 131.96 ETE 172.51 ZAC 83.41 ETC 166.70 CLP-135.37

PLANETOCENTRIC CONIC

C3 19.641 VHL 4.432 OLA 27.89 RAL 17.91 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 3.875 DPA .06 RAP 349.59 ECC 1.3232
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 52 33 3392.36 -22.84 123.88 247.29 72.79 3 49 5 2792.4 -24.98 115.87
 90.00 1 26 34 3671.83 -16.14 141.63 244.65 66.41 2 27 46 3071.8 -19.19 134.29
 100.00 5 2 28 2973.52 -26.98 94.31 248.53 76.62 5 52 2 2373.5 -28.55 85.86
 100.00 1 59 19 3565.91 -12.26 131.95 242.74 62.52 2 58 45 2965.9 -15.85 125.00
 110.00 7 13 54 2562.16 -33.47 64.46 249.91 82.63 7 56 37 1962.2 -34.13 55.28
 110.00 2 4 23 3550.03 -6.58 127.35 239.34 56.38 3 3 33 2950.0 -10.95 120.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2074 TRA 2.8438 TC3-2.2001 BAU .5816 SGT 5408.5 SGR 581.1 SG3 1117.2 ST 3115.3 SR 169.9 SS 2471.0
 RDE .0449 RRA -.3637 RC3 .2555 FAU .08353 RRT -.7920 RRF -.7969 RTF .9928 CRT -.0644 CRS .0969 CST -.9994
 FDE 5.1523 FRA 7.2409 FC3-3.6818 BSP 16834 SGB 5439.6 R23 .0117 R13 -.9929 LSA 3975.8 MSA 180.9 SSA 12.3
 BDE 2.2074 BRA 2.8670 BC3 2.2149 FSP -4051 SG1 5428.1 SG2 353.5 THA 175.11 EL1 3115.3 EL2 169.6 ALF 179.80

LAUNCH DATE NOV 27 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 550.959

RL 147.60 LAL .00 LOL 64.82 VL 27.823 GAL 6.44 AZL 87.00 HCA 244.17 SMA 129.58 ECC .17799 INC 2.9958 V1 30.186
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.578 GAP 4.62 AZP 91.31 TAL 147.37 TAP 31.54 RCA 106.51 APO 152.64 V2 34.783
 RC 104.441 GL 18.63 GP 7.00 ZAL 40.76 ZAP 138.04 ETS 8.09 ZAE 130.17 ETE 173.24 ZAC 83.55 ETC 166.63 CLP-138.52

PLANETOCENTRIC CONIC

C3 20.448 VHL 4.522 OLA 28.00 RAL 18.45 RAD 6567.8 VEL 11.909 PTH 2.12 VHP 4.061 DPA -.45 RAP 349.82 ECC 1.3365
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 48 53 3421.01 -22.25 125.78 248.38 72.01 3 45 54 2821.0 -24.50 117.83
 90.00 1 34 35 3662.35 -16.40 141.05 246.04 66.59 2 35 38 3062.3 -19.43 133.69
 100.00 5 2 10 2991.32 -26.69 95.56 249.78 76.02 5 52 2 2391.3 -28.35 87.15
 100.00 2 3 59 3567.27 -12.22 132.03 243.99 62.51 3 3 26 2967.3 -15.81 125.08
 110.00 7 14 48 2576.24 -33.34 65.54 251.27 82.00 7 57 44 1976.2 -34.09 56.38
 110.00 2 7 51 3555.12 -6.38 127.62 240.50 56.35 3 7 6 2955.1 -10.76 121.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3354 TRA 3.0403 TC3-2.1973 BAU .6040 SGT 5633.9 SGR 537.8 SG3 1022.6 ST 3236.2 SR 176.7 SS 2362.2
 RDE .0789 RRA -.3382 RC3 .2312 FAU .07497 RRT -.7383 RRF -.7424 RTF .9926 CRT .1836 CRS -.1513 CST -.9994
 FDE 4.7857 FRA 6.7945 FC3-3.1741 BSP 17670 SGB 5659.5 R23 .0097 R13 -.9927 LSA 4006.2 MSA 185.0 SSA 12.5
 BDE 2.3368 BRA 3.0590 BC3 2.2094 FSP -3726 SG1 5647.9 SG2 361.9 THA 175.95 EL1 3236.4 EL2 173.7 ALF .58

LAUNCH DATE NOV 27 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 557.007

RL 147.60 LAL .00 LOL 64.82 VL 27.811 GAL 6.65 AZL 86.96 HCA 247.33 SMA 129.49 ECC .18088 INC 3.0410 V1 30.186
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.569 GAP 5.05 AZP 91.17 TAL 146.81 TAP 34.14 RCA 106.07 APO 152.92 V2 34.783
 RC 106.844 GL 18.49 GP 6.51 ZAL 40.24 ZAP 140.98 ETS 8.35 ZAE 128.55 ETE 173.84 ZAC 83.90 ETC 166.57 CLP-141.44

PLANETOCENTRIC CONIC

C3 21.343 VHL 4.620 OLA 28.07 RAL 19.05 RAD 6567.9 VEL 11.947 PTH 2.13 VHP 4.259 DPA -.81 RAP 350.23 ECC 1.3513
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 46 42 3446.13 -21.71 127.42 249.58 71.36 3 44 8 2846.1 -24.06 119.54
 90.00 1 41 30 3657.79 -16.52 140.78 247.48 66.67 2 42 28 3057.8 -19.54 133.40
 100.00 5 2 49 3007.30 -26.43 96.67 251.12 75.49 5 52 56 2407.3 -28.16 88.30
 100.00 2 8 4 3571.86 -12.08 132.29 245.30 62.45 3 7 36 2971.9 -15.67 125.35
 110.00 7 16 17 2589.59 -33.21 66.56 252.72 81.41 7 59 26 1989.6 -34.04 57.42
 110.00 2 11 6 3562.33 -6.11 128.00 241.72 56.30 3 10 29 2962.3 -10.50 121.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4569 TRA 3.2376 TC3-2.1771 BAU .6241 SGT 5834.3 SGR 503.3 SG3 935.7 ST 3339.4 SR 191.6 SS 2257.6
 RDE .1110 RRA -.3157 RC3 .2095 FAU .06703 RRT -.6775 RRF -.6809 RTF .9923 CRT .3709 CRS -.3400 CST -.9994
 FDE 4.4448 FRA 6.3871 FC3-2.7189 BSP 18423 SGB 5856.0 R23 .0080 R13 -.9924 LSA 4031.0 MSA 189.0 SSA 12.5
 BDE 2.4594 BRA 3.2529 BC3 2.1871 FSP -3422 SG1 5844.3 SG2 369.6 THA 176.64 EL1 3340.2 EL2 177.9 ALF 1.22

LAUNCH DATE NOV 27 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 563.026

RL 147.60 LAL .00 LOL 64.82 VL 27.798 GAL 6.89 AZL 86.92 HCA 250.49 SMA 129.40 ECC .18405 INC 3.0841 V1 30.186
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.560 GAP 5.48 AZP 91.03 TAL 146.23 TAP 36.71 RCA 105.59 APO 153.22 V2 34.784
 RC 109.246 GL 18.31 GP 6.06 ZAL 39.68 ZAP 143.72 ETS 8.60 ZAE 127.10 ETE 174.33 ZAC 84.43 ETC 166.52 CLP-144.16

PLANETOCENTRIC CONIC

C3 22.338 VHL 4.726 DLA 28.11 RAL 19.68 RAD 6567.9 VEL 11.988 PTH 2.14 VHP 4.469 DPA -1.05 RAP 350.81 ECC 1.3676
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 46 22 3466.48 -21.26 128.75 250.91 70.84 3 44 8 2866.5 -23.68 120.91
 90.00 1 46 54 3659.46 -16.48 140.88 248.94 66.64 2 47 54 3059.5 -19.50 133.51
 100.00 5 4 22 3021.57 -26.18 97.66 252.56 75.03 5 54 43 2421.6 -27.98 89.32
 100.00 2 11 35 3579.60 -11.83 132.74 246.66 62.35 3 11 15 2979.6 -15.44 125.81
 110.00 7 18 18 2602.33 -33.08 67.53 254.25 80.85 8 1 41 2002.3 -33.99 58.41
 110.00 2 14 8 3571.60 -5.76 128.49 243.01 56.25 3 13 40 2971.6 -10.16 122.16

DIFFERENTIAL CORRECTIONS

TDE 2.5760 TRA 3.4405 TC3-2.1365 BAU .6406
 RDE .1411 RRA -.2958 RC3 .1895 FAU .05941
 FDE 4.1374 FRA 6.0231 FC3-2.3025 BSP 19044
 BDE 2.5799 BRA 3.4532 BC3 2.1449 FSP -3130

MID-COURSE EXECUTION ACCURACY

SGT 6016.0 SGR 476.1 SG3 857.2
 RRT -.6111 RRF -.6135 RTF .9920
 SGB 6034.8 R23 .0063 R13 -.9920
 SG1 6023.1 SG2 376.4 THA 177.22

ORBIT DETERMINATION ACCURACY

ST 3430.5 SR 210.2 SS 2161.1
 CRT .5005 CRS -.4715 CST -.9994
 LSA 4055.3 MSA 192.7 SSA 12.6
 EL1 3432.1 EL2 181.9 ALF 1.76

LAUNCH DATE NOV 27 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 569.013

RL 147.60 LAL .00 LOL 64.82 VL 27.784 GAL 7.14 AZL 86.87 HCA 253.65 SMA 129.30 ECC .18753 INC 3.1256 V1 30.186
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.551 GAP 5.92 AZP 90.88 TAL 145.61 TAP 39.26 RCA 105.06 APO 153.55 V2 34.785
 RC 111.645 GL 18.09 GP 5.67 ZAL 39.09 ZAP 146.27 ETS 8.87 ZAE 125.81 ETE 174.73 ZAC 85.13 ETC 166.47 CLP-146.69

PLANETOCENTRIC CONIC

C3 23.443 VHL 4.842 DLA 28.13 RAL 20.35 RAD 6568.0 VEL 12.034 PTH 2.15 VHP 4.691 DPA -1.16 RAP 351.54 ECC 1.3858
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 48 12 3480.99 -20.93 129.68 252.36 70.48 3 46 13 2881.0 -23.40 121.88
 90.00 1 50 26 3668.44 -16.23 141.43 250.41 66.47 2 51 35 3068.4 -19.28 134.07
 100.00 5 6 46 3034.22 -25.95 98.53 254.08 74.62 5 57 20 2434.2 -27.81 90.22
 100.00 2 14 33 3590.44 -11.49 133.36 248.06 62.21 3 14 23 2990.4 -15.12 126.45
 110.00 7 20 51 2614.56 -32.94 68.46 255.87 80.32 8 4 25 2014.6 -33.93 59.36
 110.00 2 16 57 3582.87 -5.34 129.08 244.36 56.19 3 16 40 2982.9 -9.74 122.76

DIFFERENTIAL CORRECTIONS

TDE 2.6872 TRA 3.6444 TC3-2.0882 BAU .6567
 RDE .1701 RRA -.2776 RC3 .1718 FAU .05280
 FDE 3.8490 FRA 5.6876 FC3-1.9498 BSP 19674
 BDE 2.6926 BRA 3.6549 BC3 2.0953 FSP -2877

MID-COURSE EXECUTION ACCURACY

SGT 6173.7 SGR 454.9 SG3 785.0
 RRT -.5404 RRF -.5419 RTF .9916
 SGB 6190.4 R23 .0047 R13 -.9916
 SG1 6178.6 SG2 382.4 THA 177.71

ORBIT DETERMINATION ACCURACY

ST 3502.6 SR 230.3 SS 2066.3
 CRT .5900 CRS -.5628 CST -.9994
 LSA 4068.4 MSA 196.2 SSA 12.7
 EL1 3505.2 EL2 185.8 ALF 2.23

LAUNCH DATE NOV 27 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 574.966

RL 147.60 LAL .00 LOL 64.82 VL 27.769 GAL 7.42 AZL 86.83 HCA 256.81 SMA 129.20 ECC .19132 INC 3.1658 V1 30.186
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.542 GAP 6.37 AZP 90.72 TAL 144.98 TAP 41.79 RCA 104.48 APO 153.92 V2 34.787
 RC 114.042 GL 17.83 GP 5.31 ZAL 38.46 ZAP 148.66 ETS 9.15 ZAE 124.64 ETE 175.08 ZAC 85.98 ETC 166.43 CLP-149.07

PLANETOCENTRIC CONIC

C3 24.670 VHL 4.967 DLA 28.11 RAL 21.06 RAD 6568.0 VEL 12.085 PTH 2.16 VHP 4.925 DPA -1.17 RAP 352.40 ECC 1.4060
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 52 12 3489.59 -20.74 130.24 253.96 70.27 3 50 22 2889.6 -23.24 122.46
 90.00 1 52 3 3684.85 -15.78 142.42 251.88 66.18 2 53 28 3084.9 -18.87 135.11
 100.00 5 9 58 3045.44 -25.75 99.30 255.70 74.27 6 0 44 2445.4 -27.66 91.02
 100.00 2 16 58 3604.24 -11.05 134.15 249.52 62.05 3 17 2 3004.2 -14.70 127.27
 110.00 7 23 51 2626.38 -32.80 69.35 257.56 79.80 8 7 38 2026.4 -33.86 60.27
 110.00 2 19 34 3596.06 -4.84 129.78 245.76 56.12 3 19 30 2996.1 -9.25 123.47

DIFFERENTIAL CORRECTIONS

TDE 2.7954 TRA 3.8549 TC3-2.0277 BAU .6707
 RDE .1980 RRA -.2607 RC3 .1555 FAU .04674
 FDE 3.8867 FRA 5.3862 FC3-1.6404 BSP 20239
 BDE 2.8024 BRA 3.8637 BC3 2.0337 FSP -2645

MID-COURSE EXECUTION ACCURACY

SGT 6314.5 SGR 438.5 SG3 719.7
 RRT -.4671 RRF -.4677 RTF .9912
 SGB 6329.7 R23 .0033 R13 -.9912
 SG1 6317.8 SG2 387.5 THA 178.13

ORBIT DETERMINATION ACCURACY

ST 3562.2 SR 250.3 SS 1977.1
 CRT .6522 CRS -.6266 CST -.9994
 LSA 4076.9 MSA 199.5 SSA 12.7
 EL1 3566.0 EL2 189.6 ALF 2.63

LAUNCH DATE NOV 27 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 580.883

RL 147.60 LAL .00 LOL 64.82 VL 27.754 GAL 7.72 AZL 86.79 HCA 259.97 SMA 129.10 ECC .19546 INC 3.2050 V1 30.186
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.534 GAP 6.83 AZP 90.56 TAL 144.32 TAP 44.29 RCA 103.86 APO 154.33 V2 34.790
 RC 116.435 GL 17.54 GP 5.00 ZAL 37.82 ZAP 150.90 ETS 9.45 ZAE 123.59 ETE 175.37 ZAC 86.96 ETC 166.39 CLP-151.29

PLANETOCENTRIC CONIC

C3 26.035 VHL 5.102 DLA 28.07 RAL 21.79 RAD 6568.1 VEL 12.141 PTH 2.18 VHP 5.172 DPA -1.09 RAP 353.38 ECC 1.4285
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 3 3493.39 -20.65 130.48 255.68 70.18 3 56 16 2893.4 -23.16 122.71
 90.00 1 52 3 3707.63 -15.15 143.80 253.35 65.79 2 53 51 3107.6 -18.30 136.53
 100.00 5 13 54 3055.38 -25.56 99.98 257.41 73.95 6 4 50 2455.4 -27.52 91.73
 100.00 2 18 53 3620.87 -10.52 135.10 251.01 61.86 3 19 14 3020.9 -14.20 128.24
 110.00 7 27 18 2637.89 -32.66 70.22 259.34 79.31 8 11 16 2037.9 -33.79 61.16
 110.00 2 21 59 3611.13 -4.26 130.57 247.22 56.05 3 22 10 3011.1 -8.69 124.28

DIFFERENTIAL CORRECTIONS

TDE 2.9014 TRA 4.0735 TC3-1.9554 BAU .6823
 RDE .2251 RRA -.2448 RC3 .1404 FAU .04117
 FDE 3.3489 FRA 5.1162 FC3-1.3689 BSP 20744
 BDE 2.9101 BRA 4.0809 BC3 1.9604 FSP -2432

MID-COURSE EXECUTION ACCURACY

SGT 6439.6 SGR 426.0 SG3 660.7
 RRT -.3928 RRF -.3924 RTF .9907
 SGB 6453.6 R23 .0019 R13 -.9907
 SG1 6441.8 SG2 391.7 THA 178.51

ORBIT DETERMINATION ACCURACY

ST 3610.6 SR 269.5 SS 1893.6
 CRT .6966 CRS -.6722 CST -.9994
 LSA 4080.9 MSA 202.5 SSA 12.8
 EL1 3615.5 EL2 193.1 ALF 2.98

LAUNCH DATE NOV 27 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 586.760

RL 147.60 LAL .00 LOL 64.82 VL 27.738 GAL 8.04 AZL 86.76 MCA 263.13 SMA 128.99 ECC .19997 INC 3.2434 V1 30.186
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.525 GAP 7.30 AZP 90.39 TAL 143.65 TAP 46.78 RCA 103.19 APO 154.78 V2 34.794
 RC 118.823 GL 17.22 GP 4.71 ZAL 37.15 ZAP 153.01 ETS 9.79 ZAE 122.65 ETE 175.62 ZAC 88.06 ETC 166.37 CLP-153.39

PLANETOCENTRIC CONIC

C3 27.555 VHL 5.249 CLA 28.00 RAL 22.55 RAD 6568.1 VEL 12.204 PTH 2.19 VHP 5.432 DPA -.92 RAP 354.47 ECC 1.4535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 5 13 3493.96 -20.64 130.52 257.52 70.17 4 3 27 2894.0 -23.15 122.75
 90.00 1 50 56 3735.23 -14.37 145.45 254.84 65.34 2 53 11 3135.2 -17.58 138.24
 100.00 5 18 30 3064.25 -25.40 100.59 259.21 73.68 6 9 35 2464.2 -27.39 92.35
 100.00 2 20 19 3640.18 -9.89 136.19 252.55 61.65 3 20 59 3040.2 -13.61 129.37
 110.00 7 31 8 2649.16 -32.52 71.07 261.20 78.83 8 15 17 2049.2 -33.72 62.04
 110.00 2 24 11 3628.02 -3.62 131.45 248.73 55.99 3 24 39 3028.0 -8.06 125.18

DIFFERENTIAL CORRECTIONS

TDE 3.0058 TRA 4.3016 TC3-1.8740 BAU .6919
 RDE .2515 RRA -.2295 RC3 .1264 FAU .03609
 FDE 3.1333 FRA 4.8740 FC3-1.1338 BSP 21195
 BDE 3.0163 BRA 4.3077 BC3 1.8783 FSP -2238

MID-COURSE EXECUTION ACCURACY

SGT 6550.7 SGR 416.6 SG3 607.4
 RRT -.3186 RRF -.3172 RTF .9903
 SGB 6564.0 R23 .0006 R13 -.9903
 SG1 6552.1 SG2 394.8 THA 178.84

ORBIT DETERMINATION ACCURACY

ST 3648.6 SR 287.5 SS 1815.4
 CRT .7291 CRS -.7058 CST -.9994
 LSA 4080.2 MSA 205.2 SSA 12.8
 EL1 3654.6 EL2 196.4 ALF 3.30

LAUNCH DATE NOV 27 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 592.595

RL 147.60 LAL .00 LOL 64.82 VL 27.722 GAL 8.39 AZL 86.72 MCA 266.30 SMA 128.87 ECC .20487 INC 3.2814 V1 30.186
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.517 GAP 7.80 AZP 90.21 TAL 142.96 TAP 49.26 RCA 102.47 APO 155.27 V2 34.798
 RC 121.206 GL 16.87 GP 4.46 ZAL 36.46 ZAP 155.00 ETS 10.17 ZAE 121.80 ETE 175.85 ZAC 89.26 ETC 166.34 CLP-155.38

PLANETOCENTRIC CONIC

C3 29.250 VHL 5.408 CLA 27.91 RAL 23.33 RAD 6568.2 VEL 12.273 PTH 2.21 VHP 5.705 DPA -.68 RAP 355.65 ECC 1.4814
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 16 3492.69 -20.67 130.44 259.45 70.20 4 11 29 2892.7 -23.18 122.67
 90.00 1 49 5 3766.31 -13.48 147.30 256.35 64.86 2 51 51 3166.3 -16.76 140.15
 100.00 5 23 41 3072.24 -25.24 101.13 261.09 73.43 6 14 54 2472.2 -27.27 92.92
 100.00 2 21 20 3661.99 -9.19 137.43 254.13 61.43 3 22 22 3062.0 -12.93 130.64
 110.00 7 35 19 2660.29 -32.37 71.90 263.13 78.35 8 19 39 2060.3 -33.63 62.89
 110.00 2 26 12 3646.70 -2.91 132.43 250.29 55.93 3 26 59 3046.7 -7.36 126.17

DIFFERENTIAL CORRECTIONS

TDE 3.1121 TRA 4.5435 TC3-1.7809 BAU .6978
 RDE .2775 RRA -.2145 RC3 .1133 FAU .03128
 FDE 2.9410 FRA 4.6602 FC3 -.9258 BSP 21538
 BDE 3.1245 BRA 4.5486 BC3 1.7845 FSP -2053

MID-COURSE EXECUTION ACCURACY

SGT 6652.1 SGR 409.4 SG3 559.4
 RRT -.2452 RRF -.2429 RTF .9898
 SGB 6664.7 R23 -.0008 R13 -.9898
 SG1 6652.8 SG2 396.8 THA 179.13

ORBIT DETERMINATION ACCURACY

ST 3680.2 SR 303.9 SS 1743.9
 CRT .7536 CRS -.7314 CST -.9994
 LSA 4078.5 MSA 207.6 SSA 12.8
 EL1 3687.3 EL2 199.4 ALF 3.57

LAUNCH DATE NOV 27 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 598.381

RL 147.60 LAL .00 LOL 64.82 VL 27.705 GAL 8.77 AZL 86.68 MCA 269.46 SMA 128.75 ECC .21020 INC 3.3190 V1 30.186
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.509 GAP 8.31 AZP 90.03 TAL 142.26 TAP 51.72 RCA 101.69 APO 155.82 V2 34.803
 RC 123.581 GL 16.50 GP 4.23 ZAL 35.75 ZAP 156.89 ETS 10.60 ZAE 121.02 ETE 176.05 ZAC 90.55 ETC 166.32 CLP-157.26

PLANETOCENTRIC CONIC

C3 31.144 VHL 5.581 CLA 27.80 RAL 24.12 RAD 6568.2 VEL 12.350 PTH 2.23 VHP 5.993 DPA -.37 RAP 356.91 ECC 1.5126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 54 3490.55 -20.71 130.30 261.47 70.25 4 20 4 2890.6 -23.22 122.52
 90.00 1 46 47 3799.91 -12.50 149.28 257.89 64.39 2 50 6 3199.9 -15.85 142.20
 100.00 5 29 24 3079.55 -25.10 101.63 263.04 73.21 6 20 43 2479.6 -27.16 93.43
 100.00 2 21 58 3686.14 -8.40 138.79 255.75 61.21 3 23 24 3086.1 -12.18 132.04
 110.00 7 39 49 2671.34 -32.21 72.72 265.13 77.89 8 24 21 2071.3 -33.54 63.75
 110.00 2 28 1 3667.11 -2.13 133.50 251.90 55.88 3 29 9 3067.1 -6.59 127.26

DIFFERENTIAL CORRECTIONS

TDE 3.2151 TRA 4.7947 TC3-1.6856 BAU .7031
 RDE .3032 RRA -.1994 RC3 .1012 FAU .02708
 FDE 2.7631 FRA 4.4654 FC3 -.7528 BSP 21917
 BDE 3.2293 BRA 4.7988 BC3 1.6886 FSP -1894

MID-COURSE EXECUTION ACCURACY

SGT 6738.1 SGR 404.0 SG3 515.6
 RRT -.1736 RRF -.1705 RTF .9894
 SGB 6750.2 R23 -.0019 R13 -.9894
 SG1 6738.5 SG2 397.8 THA 179.40

ORBIT DETERMINATION ACCURACY

ST 3699.4 SR 319.0 SS 1675.1
 CRT .7724 CRS -.7512 CST -.9994
 LSA 4068.1 MSA 209.7 SSA 12.7
 EL1 3707.6 EL2 202.1 ALF 3.82

LAUNCH DATE NOV 27 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 604.115

RL 147.60 LAL .00 LOL 64.82 VL 27.687 GAL 9.18 AZL 86.64 MCA 272.63 SMA 128.63 ECC .21600 INC 3.3566 V1 30.186
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.501 GAP 8.84 AZP 89.85 TAL 141.55 TAP 54.18 RCA 100.85 APO 156.42 V2 34.808
 RC 125.948 GL 16.11 GP 4.02 ZAL 35.04 ZAP 158.69 ETS 11.08 ZAE 120.32 ETE 176.23 ZAC 91.92 ETC 166.30 CLP-159.06

PLANETOCENTRIC CONIC

C3 33.264 VHL 5.768 CLA 27.66 RAL 24.92 RAD 6568.3 VEL 12.435 PTH 2.25 VHP 6.297 DPA -.00 RAP 358.24 ECC 1.5474
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 30 53 3488.19 -20.77 130.15 263.56 70.31 4 29 1 2888.2 -23.27 122.37
 90.00 1 44 12 3835.43 -11.45 151.35 259.47 63.92 2 48 8 3235.4 -14.86 144.34
 100.00 5 35 32 3086.37 -24.96 102.09 265.07 73.00 6 26 58 2486.4 -27.05 93.91
 100.00 2 22 15 3712.48 -7.53 140.26 257.40 60.99 3 24 7 3112.5 -11.34 133.55
 110.00 7 44 37 2682.39 -32.05 73.55 267.20 77.43 8 29 20 2082.4 -33.45 64.59
 110.00 2 29 39 3689.22 -1.28 134.65 253.55 55.84 3 31 8 3089.2 -5.76 128.42

DIFFERENTIAL CORRECTIONS

TDE 3.3190 TRA 5.0600 TC3-1.5846 BAU .7058
 RDE .3288 RRA -.1838 RC3 .0899 FAU .02323
 FDE 2.6023 FRA 4.2912 FC3 -.6046 BSP 22258
 BDE 3.3353 BRA 5.0633 BC3 1.5871 FSP -1749

MID-COURSE EXECUTION ACCURACY

SGT 6813.5 SGR 399.9 SG3 475.9
 RRT -.1038 RRF -.1001 RTF .9890
 SGB 6825.2 R23 -.0030 R13 -.9890
 SG1 6813.6 SG2 397.8 THA 179.65

ORBIT DETERMINATION ACCURACY

ST 3711.3 SR 332.4 SS 1611.2
 CRT .7874 CRS -.7669 CST -.9994
 LSA 4054.0 MSA 211.4 SSA 12.6
 EL1 3720.5 EL2 204.4 ALF 4.05

LAUNCH DATE NOV 28 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 6 1969

HELIOCENTRIC CONIC

DISTANCE 126.770

RL 147.57 LAL .00 LOL 65.83 VL 15.187 GAL 32.64 AZL 87.63 MCA 32.84 SMA 84.64 ECC .82639 INC 2.3728 V1 30.191
 RP 107.59 LAP 1.29 LOP 98.65 VP 29.984 GAP -54.20 AZP 88.01 TAL 171.90 TAP 204.74 RCA 14.69 APO 154.59 V2 35.222
 RC 91.981 GL 1.57 GP -.67 ZAL 64.02 ZAP 36.17 ETS 177.30 ZAE 130.94 ETE 185.10 ZAC 51.16 ETC 159.26 CLP 36.17

PLANETOCENTRIC CONIC

C3 375.507 VHL 19.378 DLA 2.16 RAL 1.05 RAD 6572.0 VEL 22.289 PTH 3.25 VHP 29.967 DPA -19.81 RAP 318.36 ECC 7.1799
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 41 22 2880.53 -28.32 87.71 267.32 89.86 7 29 23 2280.5 -28.04 79.06
 90.00 19 11 27 5390.58 27.95 246.89 265.02 85.25 20 41 17 4790.6 27.00 238.35
 100.00 8 3 43 2614.91 -29.89 68.18 267.32 89.98 8 47 18 2014.9 -29.58 59.39
 100.00 20 31 47 5131.43 29.52 227.68 264.87 85.06 21 57 18 4531.4 28.52 219.02
 110.00 9 14 16 2394.08 -34.18 51.40 267.31 90.31 9 54 10 1794.1 -33.76 42.18
 110.00 21 37 43 4925.03 33.79 211.55 264.41 84.50 22 59 48 4325.0 32.66 202.50

DIFFERENTIAL CORRECTIONS

TDE -.9388 TRA-2.2226 TC3 -.1083 BAU .5449
 RDE -1.3658 RRA .7180 RC3 -.0075 FAU .01083
 FDE .3839 FRA .7549 FC3 -.0250 BSP 1999
 BDE 1.6574 BRA 2.3357 BC3 .1085 FSP -47

MID-COURSE EXECUTION ACCURACY

SGT 828.0 SGR 457.2 SG3 23.2
 RRT -.0407 RRF .0361 RTF -.6196
 SGB 945.9 R23 -.0001 R13 .6197
 SG1 828.3 SG2 456.7 THA 178.15

ORBIT DETERMINATION ACCURACY

ST 340.8 SR 408.8 SS 341.3
 CRT .7144 CRS .7711 CST .9947
 LSA 591.3 MSA 223.5 SSA 14.1
 EL1 494.4 EL2 197.2 ALF 52.19

LAUNCH DATE NOV 28 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 8 1969

HELIOCENTRIC CONIC

DISTANCE 132.089

RL 147.57 LAL .00 LOL 65.83 VL 15.998 GAL 31.03 AZL 87.52 MCA 36.08 SMA 86.03 ECC .80097 INC 2.4829 V1 30.191
 RP 107.57 LAP 1.46 LOP 101.89 VP 30.411 GAP -51.80 AZP 87.99 TAL 170.97 TAP 207.05 RCA 17.12 APO 154.93 V2 35.229
 RC 89.765 GL 1.83 GP -.69 ZAL 62.63 ZAP 34.64 ETS 177.31 ZAE 130.78 ETE 185.46 ZAC 52.78 ETC 159.78 CLP 34.63

PLANETOCENTRIC CONIC

C3 345.403 VHL 18.585 DLA 2.96 RAL 2.22 RAD 6571.9 VEL 21.603 PTH 3.22 VHP 28.905 DPA -19.36 RAP 320.11 ECC 6.6845
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 40 7 2896.54 -28.31 88.88 268.24 89.28 7 28 23 2296.5 -28.11 80.22
 90.00 19 22 4 5357.01 27.74 244.45 265.11 84.05 20 51 21 4757.0 26.62 235.96
 100.00 8 2 50 2629.71 -29.89 69.28 268.26 89.40 8 46 40 2029.7 -29.65 60.48
 100.00 20 42 2 5099.07 29.31 225.30 264.92 83.82 22 7 1 4499.1 28.14 216.69
 110.00 9 14 15 2406.20 -34.18 52.35 268.30 89.75 9 54 21 1806.2 -33.84 43.12
 110.00 21 47 6 4895.34 33.57 209.26 264.35 83.16 23 8 42 4295.3 32.26 200.28

DIFFERENTIAL CORRECTIONS

TDE -.9462 TRA-2.2464 TC3 -.1158 BAU .5360
 RDE -1.3255 RRA .6984 RC3 -.0086 FAU .01083
 FDE .4000 FRA .7829 FC3 -.0271 BSP 2121
 BDE 1.6286 BRA 2.3525 BC3 .1161 FSP -52

MID-COURSE EXECUTION ACCURACY

SGT 866.7 SGR 463.1 SG3 25.0
 RRT -.0411 RRF .0368 RTF -.6383
 SGB 982.7 R23 -.0001 R13 .6384
 SG1 867.0 SG2 462.6 THA 178.24

ORBIT DETERMINATION ACCURACY

ST 358.5 SR 413.7 SS 357.4
 CRT .7130 CRS .7720 CST .9945
 LSA 612.0 MSA 229.6 SSA 14.3
 EL1 507.7 EL2 204.9 ALF 50.70

LAUNCH DATE NOV 28 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 10 1969

HELIOCENTRIC CONIC

DISTANCE 137.540

RL 147.57 LAL .00 LOL 65.83 VL 16.761 GAL 29.55 AZL 87.42 MCA 39.32 SMA 87.44 ECC .77529 INC 2.5772 V1 30.191
 RP 107.55 LAP 1.63 LOP 105.13 VP 30.826 GAP -49.53 AZP 88.01 TAL 170.04 TAP 209.37 RCA 19.65 APO 155.24 V2 35.235
 RC 87.555 GL 2.11 GP -.71 ZAL 61.29 ZAP 33.13 ETS 177.32 ZAE 130.68 ETE 185.84 ZAC 54.43 ETC 160.28 CLP 33.12

PLANETOCENTRIC CONIC

C3 317.888 VHL 17.829 DLA 3.75 RAL 3.35 RAD 6571.8 VEL 20.957 PTH 3.19 VHP 27.880 DPA -18.88 RAP 321.87 ECC 6.2316
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 38 43 2911.83 -28.29 90.00 269.08 88.72 7 27 15 2311.8 -28.17 81.34
 90.00 19 32 27 5323.19 27.47 242.01 265.13 82.85 21 1 10 4723.2 26.20 233.58
 100.00 8 1 49 2643.81 -29.87 70.33 269.11 88.85 8 45 52 2043.8 -29.71 61.53
 100.00 20 52 2 5066.45 29.04 222.91 264.90 82.59 22 16 29 4466.5 27.71 214.36
 110.00 9 14 5 2417.62 -34.18 53.24 269.20 89.22 9 54 22 1817.6 -33.91 44.01
 110.00 21 56 16 4865.40 33.31 206.97 264.22 81.82 23 17 21 4265.4 31.82 198.05

DIFFERENTIAL CORRECTIONS

TDE -.9528 TRA-2.2699 TC3 -.1234 BAU .5260
 RDE -1.2851 RRA .6779 RC3 -.0099 FAU .01085
 FDE .4165 FRA .8112 FC3 -.0296 BSP 2267
 BDE 1.5998 BRA 2.3689 BC3 .1238 FSP -57

MID-COURSE EXECUTION ACCURACY

SGT 906.5 SGR 468.4 SG3 26.9
 RRT -.0416 RRF .0374 RTF -.6565
 SGB 1020.3 R23 -.0001 R13 .6566
 SG1 906.7 SG2 467.9 THA 178.32

ORBIT DETERMINATION ACCURACY

ST 376.9 SR 418.1 SS 373.7
 CRT .7114 CRS .7729 CST .9943
 LSA 633.1 MSA 235.5 SSA 14.5
 EL1 521.3 EL2 212.4 ALF 49.16

LAUNCH DATE NOV 28 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 143.116

RL 147.57 LAL .00 LOL 65.83 VL 17.480 GAL 28.19 AZL 87.34 MCA 42.57 SMA 88.89 ECC .74952 INC 2.6593 V1 30.191
 RP 107.53 LAP 1.80 LOP 108.37 VP 31.229 GAP -47.39 AZP 88.04 TAL 169.12 TAP 211.69 RCA 22.26 APO 155.51 V2 35.240
 RC 85.353 GL 2.39 GP -.72 ZAL 60.00 ZAP 31.64 ETS 177.32 ZAE 130.65 ETE 186.24 ZAC 56.10 ETC 160.76 CLP 31.63

PLANETOCENTRIC CONIC

C3 292.703 VHL 17.109 DLA 4.53 RAL 4.43 RAD 6571.7 VEL 20.347 PTH 3.16 VHP 26.887 DPA -18.39 RAP 323.65 ECC 5.8172
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 37 10 2926.42 -28.26 91.07 269.82 88.18 7 25 57 2326.4 -28.22 82.40
 90.00 19 42 37 5289.09 27.16 239.57 265.08 81.67 21 10 46 4689.1 25.73 231.19
 100.00 8 0 38 2657.20 -29.85 71.32 269.87 88.33 8 44 56 2057.2 -29.76 62.52
 100.00 21 1 50 5033.54 28.73 220.51 264.82 81.37 22 25 43 4433.5 27.24 212.03
 110.00 9 13 45 2428.35 -34.16 54.08 270.00 88.73 9 54 14 1828.4 -33.96 44.84
 110.00 22 5 12 4835.15 32.99 204.66 264.03 80.49 23 25 47 4235.2 31.33 195.83

DIFFERENTIAL CORRECTIONS

TDE -.9602 TRA-2.2941 TC3 -.1313 BAU .5157
 RDE -1.2445 RRA .6568 RC3 -.0112 FAU .01088
 FDE .4333 FRA .8401 FC3 -.0322 BSP 2403
 BDE 1.5718 BRA 2.3862 BC3 .1318 FSP -62

MID-COURSE EXECUTION ACCURACY

SGT 948.3 SGR 473.1 SG3 29.0
 RRT -.0418 RRF .0379 RTF -.6740
 SGB 1059.8 R23 -.0003 R13 .6740
 SG1 948.6 SG2 472.6 THA 178.41

ORBIT DETERMINATION ACCURACY

ST 396.3 SR 422.0 SS 390.3
 CRT .7100 CRS .7738 CST .9940
 LSA 655.1 MSA 241.0 SSA 14.7
 EL1 535.5 EL2 219.9 ALF 47.53

LAUNCH DATE NOV 28 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 148.809

RL 147.57 LAL .00 LOL 65.83 VL 18.157 GAL 26.92 AZL 87.27 MCA 45.81 SMA 90.35 ECC .72382 INC 2.7319 V1 30.191
 RP 107.52 LAP 1.96 LOP 111.61 VP 31.618 GAP -45.35 AZP 88.10 TAL 168.20 TAP 214.02 RCA 24.95 APO 155.74 V2 35.245
 RC 83.158 GL 2.69 GP -.74 ZAL 58.76 ZAP 30.17 ETS 177.31 ZAE 130.69 ETE 186.66 ZAC 57.80 ETC 161.21 CLP 30.16

PLANETOCENTRIC CONIC

C3 269.622 VHL 16.420 DLA 5.30 RAL 5.46 RAD 6571.6 VEL 19.772 PTH 3.13 VMP 25.926 DPA -17.88 RAP 325.44 ECC 5.4373
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 35 28 2940.32 -28.23 92.08 270.46 87.67 7 24 28 2340.3 -28.25 83.42
 90.00 19 52 33 5254.65 26.80 237.11 264.98 80.49 21 20 8 4654.6 25.21 228.80
 100.00 7 59 19 2669.89 -29.82 72.27 270.53 87.83 8 43 49 2069.9 -29.80 63.46
 100.00 21 11 24 5000.30 28.37 218.11 264.68 80.15 22 34 44 4400.3 26.71 209.69
 110.00 9 13 17 2438.39 -34.14 54.86 270.71 88.26 9 53 55 1838.4 -34.01 45.62
 110.00 22 13 55 4804.57 32.62 202.35 263.77 79.17 23 33 59 4204.6 30.79 193.61

DIFFERENTIAL CORRECTIONS

TOE -.9671 TRA-2.3176 TC3 -.1394 BAU .5045
 ROE-1.2038 RRA .6350 RC3 -.0127 FAU .01093
 FDE .4504 FRA .8693 FC3 -.0351 BSP 2558
 BOE 1.5441 BRA 2.4030 BC3 .1400 FSP -68

MID-COURSE EXECUTION ACCURACY

SGT 991.5 SGR 477.2 SG3 31.2
 RRT -.0420 RRF .0382 RTF -.6909
 SGB 1100.3 R23 -.0004 R13 .6909
 SG1 991.7 SG2 476.6 TMA 178.49

ORBIT DETERMINATION ACCURACY

ST 416.4 SR 425.3 SS 407.3
 CRT .7085 CRS .7747 CST .9938
 LSA 677.7 MSA 246.3 SSA 14.9
 EL1 550.2 EL2 227.2 ALF 45.85

LAUNCH DATE NOV 28 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 154.613

RL 147.57 LAL .00 LOL 65.83 VL 18.795 GAL 25.72 AZL 87.20 MCA 49.06 SMA 91.82 ECC .69831 INC 2.7970 V1 30.191
 RP 107.51 LAP 2.11 LOP 114.86 VP 31.993 GAP -43.41 AZP 88.17 TAL 167.30 TAP 216.35 RCA 27.70 APO 155.94 V2 35.249
 RC 80.975 GL 3.00 GP -.77 ZAL 57.57 ZAP 28.73 ETS 177.28 ZAE 130.80 ETE 187.10 ZAC 59.53 ETC 161.65 CLP 28.72

PLANETOCENTRIC CONIC

C3 248.447 VHL 15.762 DLA 6.06 RAL 6.45 RAD 6571.4 VEL 19.229 PTH 3.09 VMP 24.995 DPA -17.34 RAP 327.24 ECC 5.0888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 33 36 2953.55 -28.19 93.05 271.02 87.19 7 22 50 2353.5 -28.28 84.38
 90.00 20 2 17 5219.82 26.38 234.65 264.81 79.32 21 29 17 4619.8 24.64 226.41
 100.00 7 57 49 2681.92 -29.79 73.16 271.10 87.36 8 42 31 2081.9 -29.83 64.35
 100.00 21 20 45 4966.69 27.95 215.69 264.47 78.95 22 43 32 4366.7 26.14 207.36
 110.00 9 12 39 2447.75 -34.12 55.59 271.32 87.83 9 53 26 1847.7 -34.05 46.35
 110.00 22 22 25 4773.62 32.20 200.04 263.46 77.86 23 41 59 4173.6 30.20 191.40

DIFFERENTIAL CORRECTIONS

TOE -.9737 TRA-2.3405 TC3 -.1476 BAU .4925
 ROE-1.1630 RRA .6127 RC3 -.0144 FAU .01099
 FDE .4680 FRA .8991 FC3 -.0383 BSP 2728
 BOE 1.5168 BRA 2.4194 BC3 .1483 FSP -75

MID-COURSE EXECUTION ACCURACY

SGT 1036.2 SGR 480.5 SG3 33.6
 RRT -.0420 RRF .0383 RTF -.7072
 SGB 1142.2 R23 -.0005 R13 .7072
 SG1 1036.5 SG2 480.0 TMA 178.58

ORBIT DETERMINATION ACCURACY

ST 437.4 SR 428.0 SS 424.7
 CRT .7071 CRS .7755 CST .9935
 LSA 701.2 MSA 251.2 SSA 15.1
 EL1 565.5 EL2 234.1 ALF 44.12

LAUNCH DATE NOV 28 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 160.519

RL 147.57 LAL .00 LOL 65.83 VL 19.395 GAL 24.60 AZL 87.14 MCA 52.30 SMA 93.30 ECC .67309 INC 2.8559 V1 30.191
 RP 107.50 LAP 2.26 LOP 118.10 VP 32.353 GAP -41.56 AZP 88.25 TAL 166.40 TAP 218.70 RCA 30.50 APO 156.10 V2 35.253
 RC 78.802 GL 3.33 GP -.79 ZAL 56.42 ZAP 27.30 ETS 177.25 ZAE 130.98 ETE 187.56 ZAC 61.28 ETC 162.06 CLP 27.29

PLANETOCENTRIC CONIC

C3 229.006 VHL 15.133 DLA 6.81 RAL 7.39 RAD 6571.3 VEL 18.717 PTH 3.06 VMP 24.093 DPA -16.78 RAP 329.05 ECC 4.7689
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 34 2966.13 -28.14 93.97 271.48 86.73 7 21 0 2366.1 -28.30 85.30
 90.00 20 11 50 5184.57 25.91 232.17 264.58 78.16 21 38 14 4584.6 24.02 224.01
 100.00 7 56 10 2693.28 -29.75 74.00 271.58 86.92 8 41 3 2093.3 -29.86 65.20
 100.00 21 29 55 4932.65 27.48 213.27 264.20 77.76 22 52 8 4332.7 25.52 205.02
 110.00 9 11 51 2456.44 -34.10 56.27 271.83 87.43 9 52 47 1856.4 -34.08 47.03
 110.00 22 30 44 4742.27 31.73 197.71 263.09 76.56 23 49 46 4142.3 29.56 189.18

DIFFERENTIAL CORRECTIONS

TOE -.9834 TRA-2.3659 TC3 -.1565 BAU .4816
 ROE-1.1221 RRA .5900 RC3 -.0162 FAU .01106
 FDE .4864 FRA .9299 FC3 -.0418 BSP 2828
 BOE 1.4921 BRA 2.4384 BC3 .1573 FSP -81

MID-COURSE EXECUTION ACCURACY

SGT 1084.8 SGR 483.2 SG3 36.2
 RRT -.0411 RRF .0381 RTF -.7227
 SGB 1187.5 R23 -.0011 R13 .7227
 SG1 1085.0 SG2 482.7 TMA 178.69

ORBIT DETERMINATION ACCURACY

ST 460.5 SR 430.2 SS 442.8
 CRT .7064 CRS .7766 CST .9933
 LSA 726.4 MSA 255.6 SSA 15.3
 EL1 582.4 EL2 240.8 ALF 42.24

LAUNCH DATE NOV 28 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 166.523

RL 147.57 LAL .00 LOL 65.83 VL 19.960 GAL 23.54 AZL 87.09 MCA 55.55 SMA 94.78 ECC .64825 INC 2.9099 V1 30.191
 RP 107.49 LAP 2.40 LOP 121.35 VP 32.698 GAP -39.79 AZP 88.35 TAL 165.51 TAP 221.06 RCA 33.34 APO 156.22 V2 35.255
 RC 76.644 GL 3.67 GP -.82 ZAL 55.32 ZAP 25.89 ETS 177.20 ZAE 131.24 ETE 188.04 ZAC 63.05 ETC 162.45 CLP 25.88

PLANETOCENTRIC CONIC

C3 211.143 VHL 14.531 DLA 7.56 RAL 8.28 RAD 6571.2 VEL 18.234 PTH 3.02 VMP 23.218 DPA -16.21 RAP 330.87 ECC 4.4749
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 21 2978.10 -28.09 94.84 271.84 86.30 7 18 59 2378.1 -28.31 86.18
 90.00 20 21 12 5148.85 25.39 229.69 264.29 77.02 21 47 0 4548.9 23.35 221.61
 100.00 7 54 19 2704.02 -29.71 74.80 271.96 86.50 8 39 23 2104.0 -29.87 66.00
 100.00 21 38 54 4898.16 26.96 210.84 263.88 76.58 23 0 32 4298.2 24.85 202.68
 110.00 9 10 52 2464.48 -34.07 56.90 272.25 87.06 9 51 57 1864.5 -34.10 47.65
 110.00 22 38 51 4710.47 31.20 195.38 262.66 75.28 23 57 21 4110.5 28.87 186.96

DIFFERENTIAL CORRECTIONS

TOE -.9922 TRA-2.3895 TC3 -.1654 BAU .4696
 ROE-1.0813 RRA .5669 RC3 -.0182 FAU .01114
 FDE .5053 FRA .9613 FC3 -.0457 BSP 2958
 BOE 1.4676 BRA 2.4559 BC3 .1664 FSP -88

MID-COURSE EXECUTION ACCURACY

SGT 1134.7 SGR 485.2 SG3 39.0
 RRT -.0402 RRF .0378 RTF -.7376
 SGB 1234.0 R23 -.0015 R13 .7376
 SG1 1134.9 SG2 484.7 TMA 178.80

ORBIT DETERMINATION ACCURACY

ST 484.3 SR 431.7 SS 461.3
 CRT .7057 CRS .7776 CST .9931
 LSA 752.4 MSA 259.6 SSA 15.5
 EL1 600.0 EL2 246.9 ALF 40.36

LAUNCH DATE NOV 28 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 172.630

RL 147.57 LAL .00 LOL 65.83 VL 20.492 GAL 22.54 AZL 87.04 MCA 58.80 SMA 96.26 ECC .62394 INC 2.9599 V1 30.191
 RP 107.48 LAP 2.53 LOP 124.60 VP 33.028 GAP -38.11 AZP 88.47 TAL 164.64 TAP 223.44 RCA 36.20 APO 156.32 V2 35.257
 RC 74.503 GL 4.02 GP -.85 ZAL 54.27 ZAP 24.50 ETS 177.13 ZAE 131.57 ETE 188.56 ZAC 64.84 ETC 162.82 CLP 24.49

PLANETOCENTRIC CONIC

C3 194.794 VHL 13.957 DLA 8.31 RAL 9.14 RAD 6571.1 VEL 17.780 PTH 2.99 VHP 22.371 DPA -15.62 RAP 332.70 ECC 4.2058
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 57 2989.60 -28.04 95.67 272.12 85.88 7 16 46 2389.6 -28.32 87.02
 90.00 20 30 25 5112.63 24.81 227.19 263.96 75.90 21 55 38 4512.6 22.63 219.20
 100.00 7 52 19 2714.27 -29.66 75.55 272.25 86.11 8 37 33 2114.3 -29.89 66.76
 100.00 21 47 45 4863.19 26.39 208.40 263.51 75.42 23 8 48 4263.2 24.12 200.33
 110.00 9 9 44 2471.99 -34.04 57.48 272.58 86.72 9 50 56 1872.0 -34.12 48.24
 110.00 22 46 49 4678.22 30.62 193.05 262.19 74.01 24 4 47 4078.2 28.13 184.74

DIFFERENTIAL CORRECTIONS

TDE -1.1502 TRA -2.5619 TC3 -.2050 BAU .5363
 RDE -1.0394 RRA .5452 RC3 -.0200 FAU .01040
 FDE .5435 FRA 1.0119 FC3 -.0462 BSP 475
 BOE 1.5502 BRA 2.6193 BC3 .2060 FSP -57

MID-COURSE EXECUTION ACCURACY

SGT 1296.2 SGR 486.1 SG3 42.6
 RRT -.0111 RRF .0291 RTF -.7483
 SGB 1384.3 R23 -.0194 R13 .7483
 SG1 1296.2 SG2 486.1 THA 179.72

ORBIT DETERMINATION ACCURACY

ST 570.0 SR 432.0 SS 495.3
 CRT .7303 CRS .7827 CST .9958
 LSA 830.1 MSA 259.8 SSA 16.6
 EL1 669.7 EL2 251.2 ALF 34.49

LAUNCH DATE NOV 28 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 178.792

RL 147.57 LAL .00 LOL 65.83 VL 20.993 GAL 21.57 AZL 86.99 MCA 62.05 SMA 97.73 ECC .60002 INC 3.0065 V1 30.191
 RP 107.48 LAP 2.66 LOP 127.85 VP 33.342 GAP -36.49 AZP 88.59 TAL 163.79 TAP 225.83 RCA 39.09 APO 156.38 V2 35.258
 RC 72.381 GL 4.38 GP -.88 ZAL 53.28 ZAP 23.12 ETS 177.04 ZAE 131.99 ETE 189.10 ZAC 66.64 ETC 163.18 CLP 23.11

PLANETOCENTRIC CONIC

C3 179.605 VHL 13.402 DLA 9.04 RAL 9.94 RAD 6570.9 VEL 17.347 PTH 2.95 VHP 21.544 DPA -15.01 RAP 334.53 ECC 3.9558
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 19 3000.30 -27.99 96.45 272.29 85.50 7 14 19 2400.3 -28.32 87.80
 90.00 20 39 24 5075.84 24.18 224.68 263.55 74.79 22 4 0 4475.8 21.86 216.78
 100.00 7 50 4 2723.71 -29.62 76.25 272.43 85.74 8 35 28 2123.7 -29.89 67.46
 100.00 21 56 20 4827.66 25.75 205.95 263.07 74.28 23 16 48 4227.7 23.35 197.98
 110.00 9 8 22 2478.68 -34.02 58.00 272.78 86.41 9 49 41 1878.7 -34.14 48.76
 110.00 22 54 32 4645.45 29.98 190.71 261.65 72.76 24 11 57 4045.4 27.33 182.52

DIFFERENTIAL CORRECTIONS

TDE -.9811 TRA -2.4049 TC3 -.1772 BAU .4289
 RDE -1.0003 RRA .5198 RC3 -.0227 FAU .01155
 FDE .5417 FRA 1.0229 FC3 -.0557 BSP 3926
 BOE 1.4011 BRA 2.4604 BC3 .1786 FSP -112

MID-COURSE EXECUTION ACCURACY

SGT 1218.8 SGR 487.1 SG3 45.1
 RRT -.0437 RRF .0382 RTF -.7667
 SGB 1312.5 R23 .0016 R13 .7667
 SG1 1219.0 SG2 486.5 THA 178.81

ORBIT DETERMINATION ACCURACY

ST 523.2 SR 433.0 SS 497.0
 CRT .6990 CRS .7790 CST .9919
 LSA 797.9 MSA 266.9 SSA 15.6
 EL1 628.2 EL2 257.8 ALF 37.38

LAUNCH DATE NOV 28 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 185.049

RL 147.57 LAL .00 LOL 65.83 VL 21.465 GAL 20.65 AZL 86.95 MCA 65.29 SMA 99.20 ECC .57676 INC 3.0505 V1 30.191
 RP 107.48 LAP 2.77 LOP 131.10 VP 33.641 GAP -34.94 AZP 88.72 TAL 162.95 TAP 228.25 RCA 41.98 APO 156.41 V2 35.259
 RC 70.281 GL 4.76 GP -.91 ZAL 52.33 ZAP 21.76 ETS 176.92 ZAE 132.50 ETE 189.67 ZAC 68.46 ETC 163.51 CLP 21.74

PLANETOCENTRIC CONIC

C3 165.715 VHL 12.873 DLA 9.78 RAL 10.69 RAD 6570.8 VEL 16.942 PTH 2.92 VHP 20.744 DPA -14.39 RAP 336.37 ECC 3.7273
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 21 28 3010.65 -27.93 97.20 272.37 85.12 7 11 39 2410.6 -28.31 88.56
 90.00 20 48 18 5038.46 23.49 222.16 263.10 73.71 22 12 16 4438.5 21.03 214.35
 100.00 7 47 38 2732.76 -29.57 76.92 272.53 85.39 8 33 11 2132.8 -29.89 68.13
 100.00 22 4 49 4791.58 25.06 203.49 262.58 73.16 23 24 41 4191.6 22.52 195.62
 110.00 9 6 50 2484.94 -33.99 58.49 272.91 86.12 9 48 15 1884.9 -34.15 49.25
 110.00 23 2 7 4612.17 29.29 188.37 261.07 71.53 24 18 59 4012.2 26.49 180.31

DIFFERENTIAL CORRECTIONS

TDE -.9964 TRA -2.4314 TC3 -.1874 BAU .4190
 RDE -.9599 RRA .4963 RC3 -.0253 FAU .01166
 FDE .5637 FRA 1.0576 FC3 -.0609 BSP 3920
 BOE 1.3835 BRA 2.4816 BC3 .1891 FSP -119

MID-COURSE EXECUTION ACCURACY

SGT 1278.8 SGR 486.8 SG3 48.5
 RRT -.0406 RRF .0369 RTF -.7795
 SGB 1368.4 R23 .0001 R13 .7795
 SG1 1279.0 SG2 486.4 THA 178.97

ORBIT DETERMINATION ACCURACY

ST 552.6 SR 432.5 SS 517.9
 CRT .7001 CRS .7805 CST .9919
 LSA 829.4 MSA 269.2 SSA 15.8
 EL1 651.0 EL2 262.2 ALF 35.26

LAUNCH DATE NOV 28 1968

FLIGHT TIME 92.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 191.377

RL 147.57 LAL .00 LOL 65.83 VL 21.908 GAL 19.78 AZL 86.91 MCA 68.54 SMA 100.64 ECC .55412 INC 3.0922 V1 30.191
 RP 107.48 LAP 2.88 LOP 134.35 VP 33.926 GAP -33.45 AZP 88.87 TAL 162.14 TAP 230.68 RCA 44.87 APO 156.41 V2 35.259
 RC 68.209 GL 5.16 GP -.95 ZAL 51.43 ZAP 20.41 ETS 176.76 ZAE 133.10 ETE 190.29 ZAC 70.29 ETC 163.83 CLP 20.38

PLANETOCENTRIC CONIC

C3 152.933 VHL 12.367 DLA 10.51 RAL 11.41 RAD 6570.7 VEL 16.561 PTH 2.88 VHP 19.967 DPA -13.75 RAP 338.20 ECC 3.5169
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 24 3020.54 -27.87 97.92 272.36 84.77 7 8 45 2420.5 -28.30 89.28
 90.00 20 57 3 5000.46 22.74 219.63 262.60 72.66 22 20 23 4400.5 20.15 211.91
 100.00 7 44 59 2741.34 -29.52 77.55 272.53 85.06 8 30 40 2141.3 -29.89 68.77
 100.00 22 13 9 4754.90 24.32 201.02 262.05 72.06 23 32 24 4154.9 21.64 193.25
 110.00 9 5 5 2490.65 -33.96 58.93 272.94 85.86 9 46 36 1890.7 -34.16 49.69
 110.00 23 9 32 4578.34 28.54 186.02 260.45 70.33 24 25 51 3978.3 25.59 178.09

DIFFERENTIAL CORRECTIONS

TDE -1.0051 TRA -2.4499 TC3 -.1962 BAU .4052
 RDE -.9198 RRA .4727 RC3 -.0280 FAU .01184
 FDE .5859 FRA 1.0926 FC3 -.0670 BSP 4078
 BOE 1.3625 BRA 2.4951 BC3 .1982 FSP -129

MID-COURSE EXECUTION ACCURACY

SGT 1336.0 SGR 485.8 SG3 52.3
 RRT -.0386 RRF .0357 RTF -.7920
 SGB 1421.6 R23 -.0005 R13 .7920
 SG1 1336.2 SG2 485.4 THA 179.07

ORBIT DETERMINATION ACCURACY

ST 580.5 SR 431.4 SS 538.8
 CRT .7002 CRS .7819 CST .9917
 LSA 860.0 MSA 271.1 SSA 16.0
 EL1 672.6 EL2 265.8 ALF 33.36

LAUNCH DATE NOV 28 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 197.771

RL 147.57 LAL .00 LOL 65.83 VL 22.326 GAL 18.95 AZL 86.87 MCA 71.79 SMA 102.07 ECC .53214 INC 3.1321 V1 30.191
 RP 107.48 LAP 2.98 LOP 137.60 VP 34.196 GAP -32.02 AZP 89.02 TAL 161.35 TAP 233.14 RCA 47.76 APO 156.39 V2 35.257
 RC 66.167 GL 5.57 GP -.99 ZAL 50.57 ZAP 19.06 ETS 176.56 ZAE 133.79 ETE 190.94 ZAC 72.13 ETC 164.13 CLP 19.04

PLANETOCENTRIC CONIC

C3 141.173 VHL 11.882 DLA 11.23 RAL 12.07 RAD 6570.5 VEL 16.202 PTH 2.84 VHP 19.213 DPA -13.10 RAP 340.04 ECC 3.3233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 15 5 3030.06 -27.81 98.61 272.26 84.43 7 5 35 2430.1 -28.29 89.98
 90.00 21 5 40 4961.79 21.93 217.08 262.05 71.63 22 28 22 4361.8 19.22 209.46
 100.00 7 42 5 2749.49 -29.47 78.16 272.44 84.75 8 27 54 2149.5 -29.89 69.38
 100.00 22 21 22 4717.59 23.51 198.54 261.47 70.99 23 39 59 4117.6 20.70 190.88
 110.00 9 3 8 2495.89 -33.94 59.34 272.88 85.62 9 44 43 1895.9 -34.17 50.10
 110.00 23 16 48 4543.96 27.73 183.68 259.78 69.16 24 32 32 3944.0 24.64 175.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0137 TRA -2.4666 TC3 -.2048 BAU .3909 SGT 1395.1 SGR 484.0 SG3 56.3 ST 609.5 SR 429.5 SS 560.5
 RDE -.8800 RRA .4492 RC3 -.0310 FAU .01205 RRT -.0363 RRF .0343 RTF -.8038 CRT .7004 CRS .7834 CST .9915
 FDE .6092 FRA 1.1286 FC3 -.0739 BSP 4242 SGB 1476.7 R23 -.0011 R13 .8038 LSA 892.0 MSA 272.4 SSA 16.1
 BDE 1.3424 BRA 2.5071 BC3 .2071 FSP -140 SG1 1395.2 SG2 483.7 TMA 179.18 EL1 695.6 EL2 268.6 ALF 31.49

LAUNCH DATE NOV 28 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 204.227

RL 147.57 LAL .00 LOL 65.83 VL 22.719 GAL 18.15 AZL 86.83 MCA 75.04 SMA 103.48 ECC .51085 INC 3.1705 V1 30.191
 RP 107.49 LAP 3.06 LOP 140.85 VP 34.452 GAP -30.65 AZP 89.18 TAL 160.58 TAP 235.61 RCA 50.62 APO 156.34 V2 35.256
 RC 64.161 GL 6.00 GP -1.03 ZAL 49.77 ZAP 17.73 ETS 176.30 ZAE 134.58 ETE 191.64 ZAC 73.99 ETC 164.42 CLP 17.70

PLANETOCENTRIC CONIC

C3 130.353 VHL 11.417 DLA 11.96 RAL 12.69 RAD 6570.4 VEL 15.865 PTH 2.81 VHP 18.480 DPA -12.43 RAP 341.88 ECC 3.1453
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 31 3039.26 -27.75 99.28 272.07 84.10 7 2 10 2439.3 -28.27 90.65
 90.00 21 14 11 4922.43 21.06 214.52 261.46 70.63 22 36 14 4322.4 18.23 206.99
 100.00 7 38 56 2757.29 -29.42 78.73 272.26 84.45 8 24 54 2157.3 -29.88 69.95
 100.00 22 29 27 4679.64 22.65 196.06 260.85 69.95 23 47 26 4079.6 19.71 188.49
 110.00 9 0 57 2500.70 -33.91 59.71 272.73 85.40 9 42 37 1900.7 -34.17 50.48
 110.00 23 23 56 4508.99 26.86 181.33 259.07 68.01 24 39 5 3909.0 23.63 173.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0223 TRA -2.4812 TC3 -.2132 BAU .3763 SGT 1456.1 SGR 481.5 SG3 60.7 ST 639.7 SR 426.9 SS 583.1
 RDE -.8407 RRA .4259 RC3 -.0342 FAU .01228 RRT -.0337 RRF .0327 RTF -.8150 CRT .7010 CRS .7850 CST .9913
 FDE .6337 FRA 1.1660 FC3 -.0816 BSP 4413 SGB 1533.6 R23 -.0019 R13 .8150 LSA 925.6 MSA 273.1 SSA 16.2
 BDE 1.3236 BRA 2.5175 BC3 .2159 FSP -152 SG1 1456.2 SG2 481.1 TMA 179.28 EL1 719.9 EL2 270.6 ALF 29.67

LAUNCH DATE NOV 28 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 210.737

RL 147.57 LAL .00 LOL 65.83 VL 23.088 GAL 17.39 AZL 86.79 MCA 78.28 SMA 104.86 ECC .49027 INC 3.2077 V1 30.191
 RP 107.50 LAP 3.14 LOP 144.10 VP 34.693 GAP -29.33 AZP 89.35 TAL 159.83 TAP 238.12 RCA 53.45 APO 156.27 V2 35.253
 RC 62.196 GL 6.45 GP -1.08 ZAL 49.02 ZAP 16.41 ETS 175.97 ZAE 135.48 ETE 192.40 ZAC 75.85 ETC 164.69 CLP 16.37

PLANETOCENTRIC CONIC

C3 120.399 VHL 10.973 DLA 12.68 RAL 13.26 RAD 6570.3 VEL 15.548 PTH 2.77 VHP 17.769 DPA -11.76 RAP 343.71 ECC 2.9815
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 39 3048.23 -27.68 99.93 271.78 83.78 6 58 27 2448.2 -28.25 91.31
 90.00 21 22 37 4882.35 20.14 211.94 260.83 69.66 22 43 59 4282.4 17.19 204.51
 100.00 7 35 32 2764.80 -29.37 79.28 271.99 84.17 8 21 37 2164.8 -29.87 70.51
 100.00 22 37 25 4641.01 21.73 193.56 260.19 68.95 23 54 46 4041.0 18.67 186.10
 110.00 8 58 31 2505.13 -33.89 60.06 272.48 85.20 9 40 16 1905.1 -34.18 50.82
 110.00 23 30 55 4473.45 25.93 178.98 258.33 66.90 24 45 29 3873.4 22.58 171.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0284 TRA -2.4913 TC3 -.2205 BAU .3601 SGT 1516.7 SGR 478.1 SG3 65.4 ST 669.8 SR 423.6 SS 606.3
 RDE -.8017 RRA .4028 RC3 -.0376 FAU .01256 RRT -.0314 RRF .0310 RTF -.8259 CRT .7013 CRS .7867 CST .9911
 FDE .6593 FRA 1.2044 FC3 -.0903 BSP 4652 SGB 1590.3 R23 -.0022 R13 .8259 LSA 959.5 MSA 273.2 SSA 16.3
 BDE 1.3039 BRA 2.5237 BC3 .2237 FSP -166 SG1 1516.8 SG2 477.8 TMA 179.37 EL1 744.4 EL2 271.7 ALF 27.96

LAUNCH DATE NOV 28 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 217.298

RL 147.57 LAL .00 LOL 65.83 VL 23.435 GAL 16.66 AZL 86.76 MCA 81.53 SMA 106.22 ECC .47040 INC 3.2441 V1 30.191
 RP 107.51 LAP 3.21 LOP 147.35 VP 34.922 GAP -28.05 AZP 89.52 TAL 159.12 TAP 240.65 RCA 56.25 APO 156.18 V2 35.250
 RC 60.278 GL 6.92 GP -1.14 ZAL 48.32 ZAP 15.09 ETS 175.54 ZAE 136.48 ETE 193.22 ZAC 77.72 ETC 164.94 CLP 15.04

PLANETOCENTRIC CONIC

C3 111.245 VHL 10.547 DLA 13.41 RAL 13.79 RAD 6570.1 VEL 15.251 PTH 2.73 VHP 17.078 DPA -11.08 RAP 345.54 ECC 2.8308
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 3 30 3057.06 -27.61 100.56 271.42 83.47 6 54 27 2457.1 -28.23 91.95
 90.00 21 30 58 4841.52 19.15 209.36 260.17 68.73 22 51 40 4241.5 16.09 202.02
 100.00 7 31 51 2772.12 -29.32 79.82 271.63 83.89 8 18 3 2172.1 -29.85 71.06
 100.00 22 45 18 4601.70 20.74 191.05 259.50 67.98 24 2 0 4001.7 17.57 183.69
 110.00 8 55 51 2509.27 -33.86 60.58 272.15 85.01 9 37 40 1909.3 -34.18 51.15
 110.00 23 37 47 4437.31 24.94 176.64 257.55 65.83 24 51 44 3837.3 21.47 169.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0347 TRA -2.4994 TC3 -.2273 BAU .3436 SGT 1579.3 SGR 473.9 SG3 70.5 ST 701.1 SR 419.5 SS 630.5
 RDE -.7633 RRA .3801 RC3 -.0412 FAU .01288 RRT -.0287 RRF .0290 RTF -.8362 CRT .7019 CRS .7885 CST .9909
 FDE .6866 FRA 1.2444 FC3 -.1002 BSP 4896 SGB 1648.8 R23 -.0027 R13 .8362 LSA 995.2 MSA 272.6 SSA 16.4
 BDE 1.2858 BRA 2.5282 BC3 .2310 FSP -181 SG1 1579.3 SG2 473.6 TMA 179.46 EL1 770.4 EL2 271.9 ALF 26.31

LAUNCH DATE NOV 28 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 223.903

RL 147.57 LAL .00 LOL 65.83 VL 23.761 GAL 15.96 AZL 86.72 MCA 84.78 SMA 107.54 ECC .45127 INC 3.2799 V1 30.191
 RP 107.52 LAP 3.27 LOP 150.60 VP 35.138 GAP -26.83 AZP 89.70 TAL 158.43 TAP 243.20 RCA 59.01 APO 156.08 V2 35.246
 RC 58.412 GL 7.41 GP -1.20 ZAL 47.67 ZAP 13.77 ETS 174.99 ZAE 137.60 ETE 194.12 ZAC 79.59 ETC 165.18 CLP 13.72

PLANETOCENTRIC CONIC

C3 102.830 VHL 10.141 DLA 14.13 RAL 14.27 RAD 6570.0 VEL 14.972 PTH 2.70 VHP 16.408 DPA -10.39 RAP 347.37 ECC 2.6923
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 59 1 3065.85 -27.54 101.20 270.96 83.16 6 50 7 2465.9 -28.21 92.59
 90.00 21 39 16 4799.91 18.10 206.75 259.47 67.85 22 59 16 4199.9 14.94 199.50
 100.00 7 27 52 2779.32 -29.26 80.35 271.19 83.61 8 14 11 2179.3 -29.84 71.59
 100.00 22 53 6 4561.67 19.70 188.54 258.77 67.05 24 9 8 3961.7 16.42 181.28
 110.00 8 52 55 2513.17 -33.84 60.68 271.73 84.83 9 34 48 1913.2 -34.18 51.45
 110.00 23 44 32 4400.59 23.90 174.30 256.75 64.80 24 57 52 3800.6 20.30 167.00

DIFFERENTIAL CORRECTIONS

TDE-1.0408 TRA-2.5049 TC3 -.2334 BAU .3268
 RDE -.7254 RRA .3577 RC3 -.0451 FAU .01323
 FDE .7156 FRA 1.2861 FC3 -.1114 BSP 5150
 BDE 1.2687 BRA 2.5304 BC3 .2377 FSP -197

MID-COURSE EXECUTION ACCURACY

SGT 1643.2 SGR 468.8 SG3 76.1
 RRT -.0258 RRF .0269 RTF -.8459
 SGB 1708.7 R23 -.0032 R13 .8460
 SG1 1643.2 SG2 468.6 THA 179.54

ORBIT DETERMINATION ACCURACY

ST 733.3 SR 414.6 SS 655.9
 CRT .7028 CRS .7905 CST .9907
 LSA 1032.4 MSA 271.4 SSA 16.5
 EL1 797.6 EL2 271.2 ALF 24.72

LAUNCH DATE NOV 28 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 230.549

RL 147.57 LAL .00 LOL 65.83 VL 24.067 GAL 15.29 AZL 86.68 MCA 88.02 SMA 108.84 ECC .43288 INC 3.3152 V1 30.191
 RP 107.53 LAP 3.31 LOP 153.85 VP 35.341 GAP -25.64 AZP 89.89 TAL 157.77 TAP 245.79 RCA 61.72 APO 155.95 V2 35.241
 RC 56.605 GL 7.91 GP -1.26 ZAL 47.07 ZAP 12.46 ETS 174.28 ZAE 138.84 ETE 195.10 ZAC 81.47 ETC 165.41 CLP 12.40

PLANETOCENTRIC CONIC

C3 95.098 VHL 9.752 DLA 14.86 RAL 14.70 RAD 6569.9 VEL 14.712 PTH 2.66 VHP 15.757 DPA -9.70 RAP 349.20 ECC 2.5651
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 54 11 3074.72 -27.47 101.84 270.43 82.84 6 45 26 2474.7 -28.18 93.24
 90.00 21 47 31 4757.50 16.99 204.13 258.74 67.00 23 6 48 4157.5 13.73 196.97
 100.00 7 23 33 2786.52 -29.21 80.88 270.67 83.34 8 10 0 2186.5 -29.82 72.13
 100.00 23 0 50 4520.93 18.60 186.01 258.01 66.17 24 16 11 3920.9 15.22 178.85
 110.00 8 49 43 2516.94 -33.81 60.97 271.24 84.66 9 31 40 1916.9 -34.18 51.75
 110.00 23 51 10 4363.28 22.80 171.96 255.92 63.81 25 3 53 3763.3 19.09 164.78

DIFFERENTIAL CORRECTIONS

TDE-1.0507 TRA-2.5116 TC3 -.2401 BAU .3116
 RDE -.6881 RRA .3359 RC3 -.0492 FAU .01360
 FDE .7473 FRA 1.3303 FC3 -.1238 BSP 5326
 BDE 1.2559 BRA 2.5340 BC3 .2451 FSP -214

MID-COURSE EXECUTION ACCURACY

SGT 1712.1 SGR 463.0 SG3 82.2
 RRT -.0217 RRF .0244 RTF -.8550
 SGB 1773.6 R23 -.0043 R13 .8550
 SG1 1712.1 SG2 462.8 THA 179.64

ORBIT DETERMINATION ACCURACY

ST 768.8 SR 408.9 SS 683.0
 CRT .7048 CRS .7928 CST .9906
 LSA 1073.3 MSA 269.3 SSA 16.6
 EL1 828.1 EL2 269.3 ALF 23.14

LAUNCH DATE NOV 28 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 237.230

RL 147.57 LAL .00 LOL 65.83 VL 24.355 GAL 14.64 AZL 86.65 MCA 91.27 SMA 110.09 ECC .41523 INC 3.3505 V1 30.191
 RP 107.55 LAP 3.35 LOP 157.10 VP 35.532 GAP -24.50 AZP 90.07 TAL 157.14 TAP 248.40 RCA 64.38 APO 155.81 V2 35.235
 RC 54.864 GL 8.44 GP -1.33 ZAL 46.52 ZAP 11.15 ETS 173.33 ZAE 140.20 ETE 196.18 ZAC 83.35 ETC 165.62 CLP 11.08

PLANETOCENTRIC CONIC

C3 87.994 VHL 9.381 DLA 15.59 RAL 15.08 RAD 6569.7 VEL 14.469 PTH 2.63 VHP 15.125 DPA -9.01 RAP 351.01 ECC 2.4482
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 0 3083.79 -27.39 102.49 269.82 82.53 6 40 23 2483.8 -28.14 93.90
 90.00 21 55 45 4714.26 15.82 201.50 257.99 66.21 23 14 19 4114.3 12.48 194.42
 100.00 7 18 54 2793.82 -29.15 81.41 270.07 83.07 8 5 28 2193.8 -29.80 72.67
 100.00 23 8 32 4479.45 17.44 183.48 257.23 65.33 24 23 11 3879.5 13.97 176.41
 110.00 8 46 13 2520.65 -33.79 61.26 270.66 84.49 9 28 13 1920.7 -34.18 52.04
 110.00 0 1 38 4325.39 21.64 169.63 255.07 62.87 1 13 44 3725.4 17.83 162.57

DIFFERENTIAL CORRECTIONS

TDE-1.0574 TRA-2.5125 TC3 -.2445 BAU .2945
 RDE -.6515 RRA .3146 RC3 -.0534 FAU .01404
 FDE .7807 FRA 1.3761 FC3 -.1381 BSP 5584
 BDE 1.2420 BRA 2.5321 BC3 .2503 FSP -234

MID-COURSE EXECUTION ACCURACY

SGT 1779.3 SGR 456.3 SG3 88.8
 RRT -.0183 RRF .0220 RTF -.8638
 SGB 1836.9 R23 -.0051 R13 .8638
 SG1 1779.3 SG2 456.2 THA 179.71

ORBIT DETERMINATION ACCURACY

ST 803.6 SR 402.4 SS 710.9
 CRT .7064 CRS .7951 CST .9904
 LSA 1114.3 MSA 266.8 SSA 16.6
 EL1 858.3 EL2 266.7 ALF 21.68

LAUNCH DATE NOV 28 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 243.942

RL 147.57 LAL .00 LOL 65.83 VL 24.624 GAL 14.03 AZL 86.61 MCA 94.51 SMA 111.31 ECC .39831 INC 3.3858 V1 30.191
 RP 107.57 LAP 3.38 LOP 160.35 VP 35.711 GAP -23.40 AZP 90.27 TAL 156.54 TAP 251.05 RCA 66.98 APO 155.65 V2 35.229
 RC 53.197 GL 8.99 GP -1.41 ZAL 46.03 ZAP 9.85 ETS 172.06 ZAE 141.68 ETE 197.39 ZAC 85.22 ETC 165.82 CLP 9.75

PLANETOCENTRIC CONIC

C3 81.473 VHL 9.026 DLA 16.32 RAL 15.41 RAD 6569.6 VEL 14.242 PTH 2.59 VHP 14.511 DPA -8.32 RAP 352.82 ECC 2.3408
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 24 3093.20 -27.31 103.16 269.13 82.20 6 34 57 2493.2 -28.10 94.59
 90.00 22 4 0 4670.15 14.60 198.84 257.22 65.46 23 21 50 4070.1 11.16 191.85
 100.00 7 13 54 2801.36 -29.09 81.96 269.40 82.78 8 0 35 2201.4 -29.78 73.23
 100.00 23 16 11 4437.22 16.22 180.93 256.43 64.54 24 30 9 3837.2 12.66 173.95
 110.00 8 42 25 2524.41 -33.77 61.55 270.01 84.32 9 24 29 1924.4 -34.18 52.33
 110.00 0 8 6 4286.93 20.43 167.30 254.20 61.98 1 19 33 3686.9 16.52 160.36

DIFFERENTIAL CORRECTIONS

TDE-1.0649 TRA-2.5116 TC3 -.2481 BAU .2776
 RDE -.6155 RRA .2940 RC3 -.0579 FAU .01452
 FDE .8169 FRA 1.4244 FC3 -.1543 BSP 5834
 BDE 1.2299 BRA 2.5287 BC3 .2548 FSP -255

MID-COURSE EXECUTION ACCURACY

SGT 1848.6 SGR 448.7 SG3 96.0
 RRT -.0146 RRF .0195 RTF -.8721
 SGB 1902.2 R23 -.0060 R13 .8721
 SG1 1848.6 SG2 448.7 THA 179.78

ORBIT DETERMINATION ACCURACY

ST 839.9 SR 395.0 SS 740.5
 CRT .7084 CRS .7975 CST .9903
 LSA 1157.6 MSA 263.5 SSA 16.7
 EL1 890.1 EL2 263.1 ALF 20.28

LAUNCH DATE NOV 28 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 250.680

RL 147.57 LAL .00 LOL 65.83 VL 24.877 GAL 13.44 AZL 86.58 HCA 97.75 SMA 112.49 ECC .38213 INC 3.4214 V1 30.191
 RP 107.59 LAP 3.39 LOP 163.60 VP 35.879 GAP -22.33 AZP 90.46 TAL 155.97 TAP 253.72 RCA 69.51 APO 155.48 V2 35.222
 RC 51.611 GL 9.57 GP -1.50 ZAL 45.60 ZAP 8.55 ETS 170.31 ZAE 143.29 ETE 198.74 ZAC 87.09 ETC 166.01 CLP 8.42

PLANETOCENTRIC CONIC

C3 75.491 VHL 8.689 CLA 17.05 RAL 15.69 RAD 6569.5 VEL 14.030 PTH 2.56 VHP 13.916 DPA -7.64 RAP 354.63 ECC 2.2424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 22 3103.11 -27.21 103.87 268.37 81.85 6 29 5 2503.1 -28.06 95.31
 90.00 22 12 17 4625.14 13.31 196.17 256.43 64.77 23 29 22 4025.1 9.80 189.24
 100.00 7 8 29 2809.26 -29.02 82.54 268.65 82.49 7 55 19 2209.3 -29.75 73.81
 100.00 23 23 51 4394.22 14.95 178.38 255.62 63.81 24 37 5 3794.2 11.31 171.48
 110.00 8 38 17 2528.33 -33.74 61.85 269.30 84.15 9 20 25 1928.3 -34.18 52.64
 110.00 0 14 29 4247.91 19.16 164.98 253.32 61.14 1 25 17 3647.9 15.16 158.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0731 TRA-2.5083 TC3 -.2507 BAU .2607 SGT 1919.4 SGR 440.4 SG3 103.8 ST 877.7 SR 386.8 SS 771.9
 RDE -.5802 RRA .2741 RC3 -.0626 FAU .01505 RRT -.0106 RRF .0170 RTF -.8799 CRT .7109 CRS .8002 CST .9902
 FDE .8563 FRA 1.4754 FC3 -.1726 BSP 6083 SGB 1969.3 R23 -.0071 R13 .8799 LSA 1203.4 MSA 259.6 SSA 16.7
 BDE 1.2199 BRA 2.5233 BC3 .2584 FSP -278 SG1 1919.4 SG2 440.4 THA 179.85 EL1 923.7 EL2 258.5 ALF 18.93

LAUNCH DATE NOV 28 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 257.440

RL 147.57 LAL .00 LOL 65.83 VL 25.114 GAL 12.88 AZL 86.54 HCA 100.99 SMA 113.63 ECC .36667 INC 3.4576 V1 30.191
 RP 107.61 LAP 3.39 LOP 166.84 VP 36.037 GAP -21.30 AZP 90.66 TAL 155.44 TAP 256.43 RCA 71.97 APO 155.30 V2 35.215
 RC 50.116 GL 10.16 GP -1.60 ZAL 45.21 ZAP 7.25 ETS 167.79 ZAE 145.02 ETE 200.28 ZAC 88.96 ETC 166.18 CLP 7.08

PLANETOCENTRIC CONIC

C3 70.005 VHL 8.367 CLA 17.80 RAL 15.93 RAD 6569.3 VEL 13.833 PTH 2.53 VHP 13.339 DPA -6.96 RAP 356.42 ECC 2.1521
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 52 3113.70 -27.11 104.63 267.54 81.49 6 22 46 2513.7 -28.01 96.08
 90.00 22 20 38 4579.18 11.96 193.47 255.63 64.14 23 36 57 3979.2 8.38 186.61
 100.00 7 2 40 2817.69 -28.94 83.16 267.84 82.17 7 49 38 2217.7 -29.72 74.44
 100.00 23 31 32 4350.43 13.61 175.81 254.79 63.13 24 44 2 3750.4 9.90 168.99
 110.00 8 33 49 2532.53 -33.71 62.18 268.52 83.96 9 16 1 1932.5 -34.18 52.97
 110.00 0 20 48 4208.35 17.85 162.67 252.43 60.35 1 30 57 3608.4 13.76 155.94

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0813 TRA-2.5018 TC3 -.2515 BAU .2437 SGT 1990.7 SGR 431.2 SG3 112.4 ST 916.4 SR 377.7 SS 805.0
 RDE -.5456 RRA .2550 RC3 -.0674 FAU .01564 RRT -.0068 RRF .0147 RTF -.8873 CRT .7137 CRS .8029 CST .9901
 FDE .8989 FRA 1.5292 FC3 -.1934 BSP 6345 SGB 2036.8 R23 -.0083 R13 .8873 LSA 1251.0 MSA 255.1 SSA 16.7
 BDE 1.2111 BRA 2.5148 BC3 .2603 FSP -303 SG1 1990.7 SG2 431.2 THA 179.91 EL1 958.3 EL2 253.0 ALF 17.66

LAUNCH DATE NOV 28 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 264.219

RL 147.57 LAL .00 LOL 65.83 VL 25.336 GAL 12.34 AZL 86.51 HCA 104.23 SMA 114.73 ECC .35193 INC 3.4945 V1 30.191
 RP 107.64 LAP 3.39 LOP 170.09 VP 36.184 GAP -20.31 AZP 90.86 TAL 154.95 TAP 259.18 RCA 74.36 APO 155.11 V2 35.207
 RC 48.721 GL 10.79 GP -1.71 ZAL 44.88 ZAP 5.98 ETS 164.02 ZAE 146.87 ETE 202.04 ZAC 90.82 ETC 166.35 CLP 5.73

PLANETOCENTRIC CONIC

C3 64.981 VHL 8.061 CLA 18.55 RAL 16.11 RAD 6569.2 VEL 13.650 PTH 2.49 VHP 12.779 DPA -6.29 RAP 358.20 ECC 2.0694
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 23 52 3125.18 -26.99 105.45 266.65 81.09 6 15 57 2525.2 -27.95 96.91
 90.00 22 29 6 4532.21 10.55 190.74 254.83 63.57 23 44 38 3932.2 6.91 183.94
 100.00 6 56 23 2826.81 -28.85 83.82 266.97 81.83 7 43 30 2226.8 -29.68 75.11
 100.00 23 39 16 4305.81 12.23 173.22 253.96 62.51 24 51 1 3705.8 8.45 166.47
 110.00 8 28 58 2537.13 -33.68 62.53 267.68 83.75 9 11 15 1937.1 -34.17 53.32
 110.00 0 27 6 4168.26 16.48 160.36 251.53 59.62 1 36 34 3568.3 12.32 153.72

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0903 TRA-2.4933 TC3 -.2508 BAU .2268 SGT 2063.5 SGR 421.2 SG3 121.8 ST 956.7 SR 367.6 SS 840.2
 RDE -.5117 RRA .2368 RC3 -.0724 FAU .01630 RRT -.0031 RRF .0127 RTF -.8943 CRT .7167 CRS .8058 CST .9901
 FDE .9456 FRA 1.5865 FC3 -.2171 BSP 6599 SGB 2106.1 R23 -.0098 R13 .8943 LSA 1301.4 MSA 250.0 SSA 16.7
 BDE 1.2044 BRA 2.5045 BC3 .2611 FSP -331 SG1 2063.5 SG2 421.2 THA 179.96 EL1 994.8 EL2 246.5 ALF 16.44

LAUNCH DATE NOV 28 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 271.012

RL 147.57 LAL .00 LOL 65.83 VL 25.544 GAL 11.83 AZL 86.47 HCA 107.47 SMA 115.79 ECC .33789 INC 3.5325 V1 30.191
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.321 GAP -19.35 AZP 91.06 TAL 154.49 TAP 261.95 RCA 76.67 APO 154.92 V2 35.198
 RC 47.437 GL 11.43 GP -1.83 ZAL 44.61 ZAP 4.73 ETS 157.97 ZAE 148.83 ETE 204.08 ZAC 92.66 ETC 166.51 CLP 4.36

PLANETOCENTRIC CONIC

C3 60.381 VHL 7.771 CLA 19.30 RAL 16.24 RAD 6569.1 VEL 13.481 PTH 2.46 VHP 12.235 DPA -5.64 RAP 359.97 ECC 1.9937
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 16 17 3137.76 -26.85 106.35 265.70 80.66 6 8 34 2537.8 -27.87 97.83
 90.00 22 37 43 4484.14 9.08 187.97 254.02 63.06 23 52 28 3884.1 5.39 181.23
 100.00 6 49 36 2836.81 -28.76 84.55 266.04 81.46 7 36 53 2236.8 -29.64 75.85
 100.00 23 47 5 4260.33 10.78 170.62 253.12 61.95 24 58 5 3660.3 6.95 163.93
 110.00 8 23 45 2542.27 -33.64 62.93 266.79 83.52 9 6 7 1942.3 -34.17 53.73
 110.00 0 33 21 4127.63 15.07 158.06 250.63 58.95 1 42 9 3527.6 10.84 151.51

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0996 TRA-2.4818 TC3 -.2483 BAU .2100 SGT 2136.7 SGR 410.4 SG3 132.2 ST 997.9 SR 356.6 SS 877.7
 RDE -.4785 RRA .2195 RC3 -.0776 FAU .01702 RRT -.0000 RRF .0114 RTF -.9009 CRT .7199 CRS .8086 CST .9901
 FDE .9967 FRA 1.6473 FC3 -.2441 BSP 6864 SGB 2175.8 R23 .0114 R13 -.9009 LSA 1354.0 MSA 244.4 SSA 16.7
 BDE 1.1992 BRA 2.4915 BC3 .2601 FSP -363 SG1 2136.7 SG2 410.4 THA .00 EL1 1032.4 EL2 239.2 ALF 15.27

LAUNCH DATE NOV 28 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 277.816

RL 147.57 LAL .00 LOL 65.83 VL 25.738 GAL 11.33 AZL 86.43 HCA 110.70 SMA 116.81 ECC .32454 INC 3.5718 V1 30.191
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.449 GAP -18.42 AZP 91.26 TAL 154.06 TAP 264.77 RCA 78.90 APO 154.71 V2 35.189
 RC 46.274 GL 12.11 GP -1.97 ZAL 44.40 ZAP 3.57 ETS 147.42 ZAE 150.89 ETE 206.47 ZAC 94.50 ETC 166.66 CLP 2.98

PLANETOCENTRIC CONIC

C3 56.175 VHL 7.495 DLA 20.06 RAL 16.32 RAD 6569.0 VEL 13.324 PTH 2.44 VHP 11.709 DPA -5.00 RAP 1.72 ECC 1.9245
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 8 4 3151.73 -26.70 107.34 264.69 80.19 6 0 35 2551.7 -27.78 98.84
 90.00 22 46 34 4434.86 7.55 185.16 253.22 62.63 24 0 29 3834.9 3.82 178.46
 100.00 6 42 17 2847.91 -28.64 85.35 265.05 81.05 7 29 45 2247.9 -29.58 76.67
 100.00 23 55 2 4213.91 9.29 167.98 252.29 61.46 25 5 16 3613.9 5.40 161.35
 110.00 8 18 6 2548.10 -33.59 63.38 265.85 83.26 9 0 35 1948.1 -34.16 54.18
 110.00 0 39 37 4086.49 13.61 155.77 249.73 58.34 1 47 44 3486.5 9.32 149.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1100 TRA-2.4680 TC3 -.2439 BAU .1935 SGT 2210.9 SGR 398.8 SG3 143.5 ST 1040.8 SR 344.6 SS 917.8
 RDE -.4460 RRA .2033 RC3 -.0828 FAU .01782 RRT .0026 RRF .0110 RTF -.9071 CRT .7234 CRS .8115 CST .9901
 FDE 1.0531 FRA 1.7125 FC3 -.2746 BSP 7118 SGB 2246.6 R23 .0134 R13 -.9071 LSA 1409.7 MSA 238.2 SSA 16.7
 BDE 1.1962 BRA 2.4764 BC3 .2576 FSP -396 SG1 2210.9 SG2 398.8 THA .03 EL1 1071.7 EL2 231.0 ALF 14.14

LAUNCH DATE NOV 28 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 284.627

RL 147.57 LAL .00 LOL 65.83 VL 25.919 GAL 10.87 AZL 86.39 HCA 113.94 SMA 117.78 ECC .31186 INC 3.6129 V1 30.191
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.568 GAP -17.52 AZP 91.47 TAL 153.68 TAP 267.61 RCA 81.05 APO 154.51 V2 35.179
 RC 45.244 GL 12.81 GP -2.12 ZAL 44.24 ZAP 2.65 ETS 127.67 ZAE 153.03 ETE 209.30 ZAC 96.31 ETC 166.80 CLP 1.59

PLANETOCENTRIC CONIC

C3 52.334 VHL 7.234 DLA 20.84 RAL 16.34 RAD 6568.9 VEL 13.179 PTH 2.41 VHP 11.199 DPA -4.38 RAP 3.47 ECC 1.8613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 59 8 3167.40 -26.51 108.45 263.63 79.66 5 51 55 2567.4 -27.67 99.97
 90.00 22 55 42 4384.20 5.95 182.29 252.43 62.26 24 8 46 3784.2 2.19 175.63
 100.00 6 34 21 2860.35 -28.51 86.25 264.02 80.60 7 22 2 2260.4 -29.51 77.59
 100.00 0 7 6 4166.48 7.73 165.32 251.46 61.04 1 16 32 3566.5 3.81 158.73
 110.00 8 12 1 2554.78 -33.54 63.89 264.87 82.96 8 54 36 1954.8 -34.15 54.70
 110.00 0 45 55 4044.81 12.11 153.47 248.84 57.79 1 53 20 3444.8 7.77 147.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1212 TRA-2.4516 TC3 -.2372 BAU .1770 SGT 2285.3 SGR 386.4 SG3 156.1 ST 1085.0 SR 331.5 SS 960.7
 RDE -.4142 RRA .1883 RC3 -.0881 FAU .01871 RRT .0040 RRF .0120 RTF -.9131 CRT .7270 CRS .8142 CST .9902
 FDE 1.1153 FRA 1.7824 FC3 -.3095 BSP 7363 SGB 2317.7 R23 .0158 R13 -.9131 LSA 1468.4 MSA 231.6 SSA 16.6
 BDE 1.1953 BRA 2.4588 BC3 .2530 FSP -434 SG1 2285.3 SG2 386.4 THA .04 EL1 1112.6 EL2 222.0 ALF 13.05

LAUNCH DATE NOV 28 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 291.443

RL 147.57 LAL .00 LOL 65.83 VL 26.089 GAL 10.42 AZL 86.34 HCA 117.17 SMA 118.71 ECC .29985 INC 3.6560 V1 30.191
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.678 GAP -16.65 AZP 91.67 TAL 153.33 TAP 270.49 RCA 83.11 APO 154.30 V2 35.169
 RC 44.357 GL 13.54 GP -2.30 ZAL 44.14 ZAP 2.30 ETS 95.06 ZAE 155.21 ETE 212.71 ZAC 98.11 ETC 166.94 CLP .16

PLANETOCENTRIC CONIC

C3 48.830 VHL 6.988 DLA 21.62 RAL 16.31 RAD 6568.8 VEL 13.046 PTH 2.38 VHP 10.705 DPA -3.80 RAP 5.19 ECC 1.8036
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 23 3185.16 -26.29 109.70 262.51 79.07 5 42 28 2585.2 -27.53 101.25
 90.00 23 5 14 4331.92 4.28 179.35 251.66 61.98 24 17 26 3731.9 .50 172.71
 100.00 6 25 45 2874.42 -28.34 87.27 262.94 80.09 7 13 40 2274.4 -29.42 78.63
 100.00 0 15 28 4117.89 6.12 162.61 250.65 60.68 1 24 6 3517.9 2.17 156.06
 110.00 8 5 28 2562.50 -33.47 64.48 263.85 82.61 8 48 10 1962.5 -34.13 55.30
 110.00 0 52 16 4002.58 10.57 151.17 247.96 57.30 1 58 58 3402.6 6.18 144.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1306 TRA-2.4281 TC3 -.2273 BAU .1605 SGT 2355.1 SGR 373.3 SG3 169.8 ST 1127.9 SR 317.3 SS 1006.7
 RDE -.3828 RRA .1747 RC3 -.0935 FAU .01969 RRT .0029 RRF .0155 RTF -.9187 CRT .7302 CRS .8167 CST .9903
 FDE 1.1844 FRA 1.8573 FC3 -.3491 BSP 7643 SGB 2384.5 R23 .0182 R13 -.9187 LSA 1528.3 MSA 224.7 SSA 16.5
 BDE 1.1936 BRA 2.4344 BC3 .2458 FSP -475 SG1 2355.1 SG2 373.3 THA .03 EL1 1152.3 EL2 212.2 ALF 12.02

LAUNCH DATE NOV 28 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 298.260

RL 147.57 LAL .00 LOL 65.83 VL 26.247 GAL 9.99 AZL 86.30 HCA 120.40 SMA 119.59 ECC .28847 INC 3.7017 V1 30.191
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.780 GAP -15.81 AZP 91.88 TAL 153.01 TAP 273.41 RCA 85.09 APO 154.09 V2 35.158
 RC 43.625 GL 14.30 GP -2.50 ZAL 44.10 ZAP 2.81 ETS 63.85 ZAE 157.39 ETE 216.86 ZAC 99.89 ETC 167.08 CLP -1.29

PLANETOCENTRIC CONIC

C3 45.637 VHL 6.756 DLA 22.42 RAL 16.23 RAD 6568.7 VEL 12.923 PTH 2.36 VHP 10.226 DPA -3.24 RAP 6.90 ECC 1.7511
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 41 3205.50 -26.02 111.13 261.34 78.41 5 32 7 2605.5 -27.35 102.72
 90.00 23 15 16 4277.70 2.54 176.32 250.92 61.79 24 26 34 3677.7 -1.25 169.69
 100.00 6 16 24 2890.47 -28.15 88.42 261.81 79.51 7 4 34 2290.5 -29.31 79.81
 100.00 0 24 11 4067.96 4.45 159.85 249.87 60.41 1 31 59 3468.0 .48 153.32
 110.00 7 58 22 2571.44 -33.39 65.17 262.79 82.21 8 41 14 1971.4 -34.11 56.00
 110.00 0 58 42 3959.76 8.98 148.87 247.09 56.88 2 4 42 3359.8 4.56 142.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1424 TRA-2.4073 TC3 -.2137 BAU .1437 SGT 2429.0 SGR 359.4 SG3 185.0 ST 1173.8 SR 301.9 SS 1055.3
 RDE -.3520 RRA .1622 RC3 -.0989 FAU .02083 RRT -.0011 RRF .0219 RTF -.9241 CRT .7329 CRS .8186 CST .9904
 FDE 1.2601 FRA 1.9370 FC3 -.3951 BSP 7958 SGB 2455.5 R23 -.0209 R13 .9241 LSA 1592.2 MSA 217.8 SSA 16.4
 BDE 1.1954 BRA 2.4128 BC3 .2355 FSP -523 SG1 2429.0 SG2 359.4 THA 179.99 EL1 1195.1 EL2 201.7 ALF 10.99

LAUNCH DATE NOV 28 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 305.076

RL 147.57 LAL .00 LOL 65.83 VL 26.394 GAL 9.59 AZL 86.25 HCA 123.63 SMA 120.43 ECC .27773 INC 3.7505 V1 30.191
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.875 GAP -14.99 AZP 92.08 TAL 152.74 TAP 276.36 RCA 86.98 APO 153.88 V2 35.147
 RC 43.055 GL 15.09 GP -2.73 ZAL 44.12 ZAP 3.88 ETS 45.77 ZAE 159.50 ETE 221.95 ZAC 101.64 ETC 167.22 CLP -2.77

PLANETOCENTRIC CONIC

C3 42.735 VHL 6.537 CLA 23.22 RAL 16.10 RAD 6568.6 VEL 12.810 PTH 2.33 VHP 9.763 DPA -2.73 RAP 8.58 ECC 1.7033
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 26 52 3229.09 -25.68 112.78 260.12 77.65 5 20 41 2629.1 -27.13 104.41
 90.00 23 26 1 4221.05 .72 173.15 250.22 61.69 24 36 22 3621.1 -3.07 166.52
 100.00 6 6 9 2908.94 -27.92 89.74 260.64 78.85 6 54 38 2308.9 -29.17 81.16
 100.00 0 33 21 4016.43 2.71 157.01 249.11 60.22 1 40 17 3416.4 -1.27 150.49
 110.00 7 50 42 2581.85 -33.29 65.97 261.71 81.75 8 33 44 1981.8 -34.07 56.81
 110.00 1 5 17 3916.29 7.36 146.55 246.24 56.52 2 10 33 3316.3 2.90 140.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1567 TRA -2.3832 TC3 -.1998 BAU .1288 SGT 2502.5 SGR 344.8 SG3 201.9 ST 1221.8 SR 285.1 SS 1108.7
 RDE -.3215 RRA .1514 RC3 -.1045 FAU .02203 RRT -.0080 RRF .0324 RTF -.9290 CRT .7353 CRS .8199 CST .9906
 FDE 1.3461 FRA 2.0243 FC3 -.4463 BSP 8192 SGB 2526.2 R23 -.0248 R13 .9290 LSA 1661.0 MSA 210.3 SSA 16.2
 BDE 1.2006 BRA 2.3880 BC3 .2255 FSP -573 SG1 2502.5 SG2 344.8 THA 179.94 EL1 1240.1 EL2 190.4 ALF 9.97

LAUNCH DATE NOV 28 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 311.889

RL 147.57 LAL .00 LOL 65.83 VL 26.531 GAL 9.20 AZL 86.20 HCA 126.85 SMA 121.23 ECC .26760 INC 3.8030 V1 30.191
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.962 GAP -14.20 AZP 92.28 TAL 152.50 TAP 279.35 RCA 88.79 APO 153.67 V2 35.135
 RC 42.657 GL 15.92 GP -2.99 ZAL 44.20 ZAP 5.22 ETS 36.18 ZAE 161.47 ETE 228.21 ZAC 103.36 ETC 167.36 CLP -4.28

PLANETOCENTRIC CONIC

C3 40.101 VHL 6.333 CLA 24.05 RAL 15.91 RAD 6568.5 VEL 12.707 PTH 2.31 VHP 9.315 DPA -2.26 RAP 10.25 ECC 1.6600
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 37 3256.84 -25.26 114.70 258.84 76.77 5 7 54 2656.8 -26.84 106.38
 90.00 23 37 44 4161.21 -1.21 169.82 249.57 61.71 24 47 5 3561.2 -4.99 163.17
 100.00 5 54 52 2930.38 -27.62 91.27 259.43 78.10 6 43 43 2330.4 -28.99 82.73
 100.00 0 43 6 3962.89 .90 154.07 248.39 60.12 1 49 9 3362.9 -3.08 147.55
 110.00 7 42 24 2593.99 -33.17 66.89 260.60 81.22 8 25 38 1994.0 -34.03 57.76
 110.00 1 12 4 3872.05 5.69 144.21 245.42 56.24 2 16 36 3272.1 1.21 137.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1720 TRA -2.3564 TC3 -.1831 BAU .1145 SGT 2574.7 SGR 329.7 SG3 220.6 ST 1270.8 SR 266.9 SS 1166.5
 RDE -.2912 RRA .1423 RC3 -.1101 FAU .02337 RRT -.0206 RRF .0489 RTF -.9336 CRT .7365 CRS .8200 CST .9908
 FDE 1.4427 FRA 2.1190 FC3 -.5045 BSP 8422 SGB 2595.7 R23 -.0293 R13 .9336 LSA 1733.7 MSA 202.9 SSA 15.9
 BDE 1.2076 BRA 2.3607 BC3 .2137 FSP -630 SG1 2574.7 SG2 329.7 THA 179.85 EL1 1286.3 EL2 178.4 ALF 8.96

LAUNCH DATE NOV 28 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 318.695

RL 147.57 LAL .00 LOL 65.83 VL 26.658 GAL 8.84 AZL 86.14 HCA 130.08 SMA 121.98 ECC .25805 INC 3.8602 V1 30.191
 RP 107.89 LAP 2.95 LOP 195.97 VP 37.042 GAP -13.43 AZP 92.49 TAL 152.29 TAP 282.37 RCA 90.50 APO 153.46 V2 35.123
 RC 42.436 GL 16.78 GP -3.30 ZAL 44.33 ZAP 6.71 ETS 30.76 ZAE 163.19 ETE 235.86 ZAC 105.05 ETC 167.52 CLP -5.84

PLANETOCENTRIC CONIC

C3 37.718 VHL 6.141 CLA 24.89 RAL 15.66 RAD 6568.5 VEL 12.613 PTH 2.29 VHP 8.881 DPA -1.85 RAP 11.89 ECC 1.8207
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 58 33 3290.15 -24.73 116.99 257.50 75.74 4 53 23 2690.2 -26.45 108.75
 90.00 23 50 50 4096.92 -3.28 166.23 248.39 61.86 24 59 7 3496.9 -7.02 159.54
 100.00 5 42 19 2955.57 -27.26 93.05 258.17 77.23 6 31 35 2355.6 -28.74 84.56
 100.00 0 53 40 3906.74 -1.01 150.99 247.73 60.12 1 58 47 3306.7 -4.97 144.45
 110.00 7 33 21 2608.18 -33.02 67.97 259.48 80.59 8 16 50 2008.2 -33.96 58.86
 110.00 1 19 8 3826.89 3.97 141.84 244.62 56.02 2 22 55 3226.9 -5.51 135.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1849 TRA -2.3233 TC3 -.1604 BAU .0997 SGT 2640.2 SGR 314.2 SG3 241.3 ST 1317.5 SR 246.8 SS 1227.9
 RDE -.2607 RRA .1352 RC3 -.1157 FAU .02491 RRT -.0428 RRF .0749 RTF -.9381 CRT .7349 CRS .8179 CST .9910
 FDE 1.5500 FRA 2.2201 FC3 -.5718 BSP 8726 SGB 2658.8 R23 -.0342 R13 .9381 LSA 1807.2 MSA 195.6 SSA 15.6
 BDE 1.2133 BRA 2.3273 BC3 .1978 FSP -695 SG1 2640.2 SG2 313.9 THA 179.70 EL1 1330.2 EL2 165.8 ALF 7.96

LAUNCH DATE NOV 28 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 325.493

RL 147.57 LAL .00 LOL 65.83 VL 26.776 GAL 8.49 AZL 86.08 HCA 133.30 SMA 122.69 ECC .24908 INC 3.9230 V1 30.191
 RP 107.93 LAP 2.85 LOP 199.20 VP 37.116 GAP -12.69 AZP 92.69 TAL 152.12 TAP 285.42 RCA 92.13 APO 153.25 V2 35.111
 RC 42.394 GL 17.69 GP -3.66 ZAL 44.53 ZAP 8.29 ETS 27.51 ZAE 164.55 ETE 244.96 ZAC 106.70 ETC 167.70 CLP -7.44

PLANETOCENTRIC CONIC

C3 35.569 VHL 5.964 CLA 25.76 RAL 15.35 RAD 6568.4 VEL 12.528 PTH 2.27 VHP 8.463 DPA -1.51 RAP 13.51 ECC 1.5854
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 55 3331.41 -24.00 119.80 256.06 74.51 4 36 26 2731.4 -25.90 111.64
 90.00 0 9 57 4026.02 -5.55 162.25 248.52 62.19 1 17 4 3426.0 -9.23 155.50
 100.00 5 28 10 2985.65 -26.79 95.16 256.86 76.21 6 17 55 2385.6 -28.42 86.74
 100.00 1 5 24 3847.01 -3.03 147.71 247.14 60.25 2 9 31 3247.0 -6.97 141.14
 110.00 7 23 29 2624.86 -32.82 69.24 258.33 79.87 8 7 13 2024.9 -33.87 60.16
 110.00 1 26 34 3780.57 2.21 139.42 243.87 55.88 2 29 35 3180.6 -2.28 133.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2024 TRA -2.2910 TC3 -.1386 BAU .0877 SGT 2708.1 SGR 298.6 SG3 264.4 ST 1368.1 SR 224.8 SS 1295.7
 RDE -.2299 RRA .1303 RC3 -.1216 FAU .02656 RRT -.0749 RRF .1123 RTF -.9421 CRT .7302 CRS .8127 CST .9913
 FDE 1.6729 FRA 2.3315 FC3 -.6464 BSP 8938 SGB 2724.5 R23 -.0409 R13 .9422 LSA 1888.3 MSA 188.4 SSA 15.2
 BDE 1.2242 BRA 2.2947 BC3 .1844 FSP -764 SG1 2708.2 SG2 297.7 THA 179.52 EL1 1378.1 EL2 152.5 ALF 6.93

LAUNCH DATE NOV 28 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 332.281

RL 147.57 LAL .00 LOL 65.83 VL 26.885 GAL 8.17 AZL 86.01 HCA 136.52 SMA 123.36 ECC .24067 INC 3.9927 V1 30.191
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.183 GAP -11.97 AZP 92.90 TAL 151.99 TAP 288.51 RCA 93.67 APO 153.05 V2 35.099
 RC 42.534 GL 18.63 GP -4.08 ZAL 44.79 ZAP 9.97 ETS 25.52 ZAE 165.43 ETE 255.27 ZAC 108.31 ETC 167.90 CLP -9.10

PLANETOCENTRIC CONIC

C3 33.639 VHL 5.800 CLA 26.65 RAL 14.99 RAD 6568.3 VEL 12.450 PTH 2.25 VHP 8.059 DPA -1.26 RAP 15.11 ECC 1.5536
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 19 15 3385.34 -22.98 123.42 254.47 72.98 4 15 40 2785.3 -25.09 115.39
 90.00 0 28 42 3943.93 -8.13 157.60 248.23 62.78 1 34 26 3343.9 -11.72 150.76
 100.00 5 11 50 3022.40 -26.16 97.72 255.47 75.00 6 2 12 2422.4 -27.97 89.38
 100.00 1 18 48 3782.10 -5.21 144.13 246.64 60.52 2 21 50 3182.1 -9.10 137.50
 110.00 7 12 35 2644.55 -32.58 70.72 257.17 79.02 7 56 40 2044.6 -33.75 61.68
 110.00 1 34 32 3732.71 .38 136.92 243.17 55.82 2 36 45 3132.7 -4.11 130.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2188 TRA-2.2532 TC3 -.1118 BAU .0764 SGT 2769.2 SGR 283.4 SG3 290.0 ST 1417.0 SR 200.4 SS 1368.7
 RDE -.1982 RRA .1280 RC3 -.1278 FAU .02843 RRT -.1242 RRF .1670 RTF -.9460 CRT .7185 CRS .8016 CST .9916
 FDE 1.8116 FRA 2.4515 FC3 -.7317 BSP 9198 SGB 2783.7 R23 -.0487 R13 .9461 LSA 1971.8 MSA 181.6 SSA 14.7
 BDE 1.2348 BRA 2.2569 BC3 .1698 FSP -844 SG1 2769.4 SG2 281.2 THA 179.26 EL1 1424.3 EL2 138.6 ALF 5.86

LAUNCH DATE NOV 28 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 339.056

RL 147.57 LAL .00 LOL 65.83 VL 26.987 GAL 7.86 AZL 85.93 HCA 139.73 SMA 123.99 ECC .23279 INC 4.0712 V1 30.191
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.244 GAP -11.27 AZP 93.11 TAL 151.89 TAP 291.62 RCA 95.13 APO 152.86 V2 35.086
 RC 42.893 GL 19.63 GP -4.59 ZAL 45.11 ZAP 11.74 ETS 24.34 ZAE 165.75 ETE 266.10 ZAC 109.88 ETC 168.15 CLP -10.82

PLANETOCENTRIC CONIC

C3 31.916 VHL 5.649 CLA 27.57 RAL 14.56 RAD 6568.3 VEL 12.381 PTH 2.23 VHP 7.670 DPA -1.10 RAP 16.68 ECC 1.5253
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 49 25 3465.25 -21.29 128.67 252.57 70.87 3 47 10 2865.3 -23.70 120.83
 90.00 0 55 6 3837.52 -11.39 151.48 248.28 63.90 1 59 4 3237.5 -14.81 144.47
 100.00 4 52 18 3069.07 -25.30 100.92 253.97 73.53 5 43 28 2469.1 -27.32 92.70
 100.00 1 34 53 3708.94 -7.65 140.06 246.30 61.01 2 36 42 3108.9 -11.46 133.34
 110.00 7 0 28 2668.00 -32.26 72.48 255.98 78.03 7 44 56 2068.0 -33.57 63.49
 110.00 1 43 13 3682.77 -1.53 134.32 242.54 55.85 2 44 36 3082.8 -6.00 128.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2273 TRA-2.2034 TC3 -.0708 BAU .0648 SGT 2812.5 SGR 269.7 SG3 318.0 ST 1456.5 SR 173.0 SS 1444.3
 RDE -.1648 RRA .1289 RC3 -.1343 FAU .03078 RRT -.1998 RRF .2467 RTF -.9500 CRT .6931 CRS .7791 CST .9917
 FDE 1.9640 FRA 2.5760 FC3 -.8350 BSP 9658 SGB 2825.4 R23 -.0563 R13 .9501 LSA 2050.9 MSA 175.8 SSA 13.9
 BDE 1.2384 BRA 2.2071 BC3 .1518 FSP -945 SG1 2813.0 SG2 264.2 THA 178.89 EL1 1461.4 EL2 124.3 ALF 4.74

LAUNCH DATE NOV 28 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 345.818

RL 147.57 LAL .00 LOL 65.83 VL 27.081 GAL 7.57 AZL 85.84 HCA 142.95 SMA 124.58 ECC .22543 INC 4.1608 V1 30.191
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.300 GAP -10.59 AZP 93.32 TAL 151.81 TAP 294.76 RCA 96.50 APO 152.67 V2 35.073
 RC 43.347 GL 20.69 GP -5.20 ZAL 45.50 ZAP 13.62 ETS 23.75 ZAE 165.51 ETE 276.46 ZAC 111.41 ETC 168.44 CLP -12.61

PLANETOCENTRIC CONIC

C3 30.393 VHL 5.513 CLA 28.53 RAL 14.06 RAD 6568.2 VEL 12.319 PTH 2.22 VHP 7.295 DPA -1.08 RAP 18.22 ECC 1.5002
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.36 1 19 56 3737.39 -17.15 146.89 249.50 66.85 2 22 13 3137.4 -20.14 139.47
 93.64 2 20 36 3540.81 -17.13 132.49 249.49 66.83 3 19 37 2940.8 -20.12 125.07
 100.00 4 27 16 3133.00 -24.00 105.22 252.27 71.62 5 19 29 2533.0 -26.29 97.17
 100.00 1 55 57 3620.43 -10.53 135.07 246.22 61.86 2 56 17 3020.4 -14.21 128.22
 110.00 6 46 46 2696.32 -31.84 74.58 254.77 76.85 7 31 42 2096.3 -33.32 65.66
 110.00 1 52 57 3629.87 -3.55 131.55 241.99 55.98 2 53 27 3029.9 -7.99 125.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2398 TRA-2.1524 TC3 -.0301 BAU .0589 SGT 2853.9 SGR 259.7 SG3 349.2 ST 1497.9 SR 142.5 SS 1527.8
 RDE -.1293 RRA .1334 RC3 -.1419 FAU .03333 RRT -.3017 RRF .3538 RTF -.9537 CRT .6414 CRS .7327 CST .9919
 FDE 2.1404 FRA 2.7121 FC3 -.9494 BSP 10048 SGB 2865.7 R23 -.0670 R13 .9538 LSA 2137.6 MSA 170.4 SSA 13.0
 BDE 1.2466 BRA 2.1566 BC3 .1450 FSP -1055 SG1 2854.9 SG2 247.5 THA 178.42 EL1 1500.7 EL2 109.1 ALF 3.51

LAUNCH DATE NOV 28 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 352.570

RL 147.57 LAL .00 LOL 65.83 VL 27.167 GAL 7.30 AZL 85.74 HCA 146.16 SMA 125.13 ECC .21859 INC 4.2646 V1 30.191
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.351 GAP -9.94 AZP 93.54 TAL 151.76 TAP 297.92 RCA 97.78 APO 152.49 V2 35.060
 RC 44.011 GL 21.82 GP -5.94 ZAL 45.96 ZAP 15.62 ETS 23.62 ZAE 164.78 ETE 285.48 ZAC 112.89 ETC 168.82 CLP -14.47

PLANETOCENTRIC CONIC

C3 29.069 VHL 5.392 CLA 29.54 RAL 13.49 RAD 6568.2 VEL 12.266 PTH 2.21 VHP 6.936 DPA -1.20 RAP 19.75 ECC 1.4784
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.20 0 35 58 3860.53 -18.03 156.35 248.46 66.19 1 40 19 3260.5 -21.10 148.93
 98.80 3 0 1 3395.36 -18.02 122.18 248.45 66.18 3 56 37 2795.4 -21.08 114.75
 100.00 3 47 38 3243.02 -21.45 112.40 249.97 68.67 4 41 41 2643.0 -24.16 104.65
 100.00 2 31 3 3488.10 -14.66 127.42 246.82 63.66 3 29 11 2888.1 -18.08 120.30
 110.00 6 30 57 2731.26 -31.27 77.14 253.51 75.43 7 16 28 2131.3 -32.95 68.32
 110.00 2 4 14 3572.63 -5.72 128.55 241.57 56.24 3 3 46 2972.6 -10.12 122.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3128 TRA-2.1569 TC3 -.0683 BAU .0645 SGT 2982.2 SGR 256.9 SG3 388.8 ST 1603.5 SR 109.3 SS 1650.5
 RDE -.0903 RRA .1423 RC3 -.1512 FAU .03413 RRT -.4072 RRF .4773 RTF -.9549 CRT .5288 CRS .6247 CST .9929
 FDE 2.3899 FRA 2.9056 FC3 -1.0164 BSP 9015 SGB 2993.2 R23 -.0942 R13 .9551 LSA 2298.0 MSA 163.0 SSA 12.7
 BDE 1.3159 BRA 2.1616 BC3 .1659 FSP -1089 SG1 2984.0 SG2 234.5 THA 177.98 EL1 1604.5 EL2 92.7 ALF 2.07

LAUNCH DATE NOV 28 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 359.301

RL 147.57 LAL .00 LOL 65.83 VL 27.247 GAL 7.04 AZL 85.61 MCA 149.37 SMA 125.65 ECC .21221 INC 4.3875 V1 30.191
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.396 GAP -9.30 AZP 93.78 TAL 151.74 TAP 301.11 RCA 98.98 APO 152.31 V2 35.047
 RC 44.838 GL 23.04 GP -6.85 ZAL 46.50 ZAP 17.76 ETS 23.88 ZAE 163.66 ETE 292.66 ZAC 114.31 ETC 169.29 CLP -16.42

PLANETOCENTRIC CONIC

C3 27.934 VHL 5.285 DLA 30.63 RAL 12.83 RAD 6568.1 VEL 12.219 PTH 2.20 VHP 6.593 DPA -1.53 RAP 21.27 ECC 1.4597
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.81 0 7 47 3932.02 -18.93 162.10 247.44 65.46 1 13 19 3332.0 -22.08 154.67
 102.19 3 22 56 3303.96 -18.92 115.80 247.44 65.45 4 18 0 2704.0 -22.07 108.37
 77.81 0 7 47 3932.02 -18.93 162.10 247.44 65.46 1 13 19 3332.0 -22.08 154.67
 102.19 3 22 56 3303.96 -18.92 115.80 247.44 65.45 4 18 0 2704.0 -22.07 108.37
 110.00 6 11 59 2775.68 -30.47 80.35 252.16 73.69 6 58 15 2175.7 -32.40 71.67
 110.00 2 17 55 3508.30 -8.14 125.14 241.32 56.69 3 16 23 2908.3 -12.47 118.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.3270 TRA -2.0961 TC3 -.0247 BAU .0611 SGT 3007.3 SGR 266.3 SG3 427.7 ST 1642.3 SR 77.4 SS 1752.4
 RDE -.0455 RRA .1573 RC3 -.1617 FAU .03714 RRT -.5592 RRF .6314 RTF -.9581 CRT .1877 CRS .3003 CST .9930
 FDE 2.6288 FRA 3.0646 FC3 -1.1510 BSP 9417 SGB 3019.1 R23 -.1119 R13 .9585 LSA 2397.6 MSA 159.5 SSA 11.6
 BDE 1.3278 BRA 2.1020 BC3 .1636 FSP -1222 SGI 3011.0 SG2 220.5 THA 177.15 ELI 1642.4 EL2 76.0 ALF .51

LAUNCH DATE NOV 28 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 366.014

RL 147.57 LAL .00 LOL 65.83 VL 27.320 GAL 6.81 AZL 85.46 MCA 152.58 SMA 126.12 ECC .20630 INC 4.5357 V1 30.191
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.437 GAP -8.68 AZP 94.03 TAL 151.75 TAP 304.32 RCA 100.10 APO 152.14 V2 35.033
 RC 45.818 GL 24.38 GP -8.00 ZAL 47.14 ZAP 20.07 ETS 24.54 ZAE 162.24 ETE 297.89 ZAC 115.68 ETC 169.92 CLP -18.47

PLANETOCENTRIC CONIC

C3 26.999 VHL 5.196 DLA 31.80 RAL 12.06 RAD 6568.1 VEL 12.181 PTH 2.19 VHP 6.266 DPA -2.12 RAP 22.79 ECC 1.4443
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.88 23 40 5 3988.78 -19.86 166.84 246.46 64.63 24 46 34 3388.8 -23.11 159.40
 105.12 3 40 35 3230.26 -19.85 110.70 246.45 64.62 4 34 25 2630.3 -23.10 103.26
 74.88 23 40 5 3988.78 -19.86 166.84 246.46 64.63 24 46 34 3388.8 -23.11 159.40
 105.12 3 40 35 3230.26 -19.85 110.70 246.45 64.62 4 34 25 2630.3 -23.10 103.26
 110.00 5 47 54 2835.63 -29.24 84.59 250.61 71.45 6 35 10 2235.6 -31.49 76.11
 110.00 2 35 52 3431.40 -10.99 121.00 241.37 57.43 3 33 4 2831.4 -15.21 114.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.3425 TRA -2.0294 TC3 .0216 BAU .0637 SGT 3020.8 SGR 296.0 SG3 470.5 ST 1678.0 SR 70.6 SS 1863.8
 RDE .0075 RRA .1797 RC3 -.1753 FAU .04049 RRT -.7049 RRF .7752 RTF -.9611 CRT -.5693 CRS -.4713 CST .9932
 FDE 2.9060 FRA 3.2302 FC3 -1.2984 BSP 9844 SGB 3035.3 R23 -.1331 R13 .9617 LSA 2503.9 MSA 157.3 SSA 10.2
 BDE 1.3425 BRA 2.0373 BC3 .1766 FSP -1375 SGI 3028.1 SG2 209.4 THA 176.03 ELI 1678.4 EL2 58.1 ALF 178.63

LAUNCH DATE NOV 28 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 372.710

RL 147.57 LAL .00 LOL 65.83 VL 27.387 GAL 6.58 AZL 85.28 MCA 155.78 SMA 126.56 ECC .20085 INC 4.7198 V1 30.191
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.474 GAP -8.07 AZP 94.31 TAL 151.77 TAP 307.55 RCA 101.14 APO 151.98 V2 35.020
 RC 46.944 GL 25.89 GP -9.48 ZAL 47.90 ZAP 22.61 ETS 25.63 ZAE 160.55 ETE 301.24 ZAC 117.00 ETC 170.76 CLP -20.62

PLANETOCENTRIC CONIC

C3 26.286 VHL 5.127 DLA 33.11 RAL 11.16 RAD 6568.1 VEL 12.152 PTH 2.18 VHP 5.959 DPA -3.05 RAP 24.34 ECC 1.4326
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.08 23 18 6 4039.29 -20.82 171.20 245.52 63.65 24 25 26 3439.3 -24.18 163.76
 107.92 3 55 23 3166.47 -20.80 106.31 245.51 63.64 4 48 9 2566.5 -24.17 98.88
 72.08 23 18 6 4039.29 -20.82 171.20 245.52 63.65 24 25 26 3439.3 -24.18 163.76
 107.92 3 55 23 3166.47 -20.80 106.31 245.51 63.64 4 48 9 2566.5 -24.17 98.88
 110.00 5 13 2 2928.00 -27.08 90.90 248.57 68.29 6 1 50 2328.0 -29.77 82.75
 110.00 3 3 33 3325.76 -14.79 115.18 242.05 58.83 3 58 59 2725.8 -18.81 108.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.3747 TRA -1.9700 TC3 .0481 BAU .0698 SGT 3044.8 SGR 354.8 SG3 518.7 ST 1726.8 SR 118.2 SS 1995.3
 RDE .0734 RRA .2122 RC3 -.1927 FAU .04355 RRT -.8143 RRF .8810 RTF -.9634 CRT -.9454 CRS -.9031 CST .9935
 FDE 3.2450 FRA 3.4122 FC3 -1.4342 BSP 9943 SGB 3065.4 R23 -.1602 R13 .9644 LSA 2636.8 MSA 155.9 SSA 8.9
 BDE 1.3766 BRA 1.9814 BC3 .1987 FSP -1518 SGI 3058.5 SG2 205.0 THA 174.55 ELI 1730.4 EL2 38.5 ALF 176.30

LAUNCH DATE NOV 28 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 379.387

RL 147.57 LAL .00 LOL 65.83 VL 27.448 GAL 6.38 AZL 85.04 MCA 158.98 SMA 126.97 ECC .19582 INC 4.9560 V1 30.191
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.506 GAP -7.49 AZP 94.63 TAL 151.81 TAP 310.79 RCA 102.11 APO 151.84 V2 35.007
 RC 48.205 GL 27.62 GP -11.44 ZAL 48.82 ZAP 25.45 ETS 27.20 ZAE 158.56 ETE 302.83 ZAC 118.27 ETC 171.91 CLP -22.88

PLANETOCENTRIC CONIC

C3 25.834 VHL 5.083 DLA 34.60 RAL 10.07 RAD 6568.0 VEL 12.133 PTH 2.17 VHP 5.675 DPA -4.47 RAP 25.97 ECC 1.4252
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.24 22 56 25 4088.13 -21.81 175.54 244.63 62.46 24 4 33 3488.1 -25.32 168.11
 110.76 4 8 25 3109.06 -21.80 102.39 244.62 62.44 5 0 14 2509.1 -25.31 94.97
 69.24 22 56 25 4088.13 -21.81 175.54 244.63 62.46 24 4 33 3488.1 -25.32 168.11
 110.76 4 8 25 3109.06 -21.80 102.39 244.62 62.44 5 0 14 2509.1 -25.31 94.97
 69.24 22 56 25 4088.13 -21.81 175.54 244.63 62.46 24 4 33 3488.1 -25.32 168.11
 110.76 4 8 25 3109.06 -21.80 102.39 244.62 62.44 5 0 14 2509.1 -25.31 94.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4103 TRA -1.9013 TC3 .0764 BAU .0792 SGT 3051.6 SGR 453.3 SG3 569.8 ST 1771.3 SR 208.9 SS 2138.6
 RDE .1596 RRA .2580 RC3 -.2161 FAU .04684 RRT -.8842 RRF .9445 RTF -.9655 CRT -.9967 CRS -.9822 CST .9937
 FDE 3.6414 FRA 3.5850 FC3 -1.5697 BSP 10116 SGB 3085.1 R23 -.1858 R13 .9672 LSA 2780.3 MSA 156.2 SSA 7.5
 BDE 1.4193 BRA 1.9187 BC3 .2292 FSP -1681 SGI 3077.9 SG2 209.9 THA 172.48 ELI 1783.5 EL2 16.9 ALF 173.29

LAUNCH DATE NOV 28 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 386.043

RL 147.57 LAL .00 LOL 65.83 VL 27.504 GAL 6.19 AZL 84.73 MCA 162.18 SMA 127.35 ECC .19122 INC 5.2723 V1 30.191
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.535 GAP -6.92 AZP 95.02 TAL 151.86 TAP 314.04 RCA 103.00 APO 151.70 V2 34.994
 RC 49.590 GL 29.69 GP -14.11 ZAL 49.97 ZAP 28.71 ETS 29.41 ZAE 156.10 ETE 302.76 ZAC 119.49 ETC 173.54 CLP -25.27

PLANETOCENTRIC CONIC

C3 25.730 VHL 5.073 CLA 36.36 RAL 8.72 RAD 6568.0 VEL 12.129 PTH 2.17 VHP 5.423 DPA -6.59 RAP 27.78 ECC 1.4235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.18 22 33 46 4138.79 -22.86 180.17 243.79 60.92 23 42 45 3538.8 -26.55 172.78
 113.82 4 20 13 3056.41 -22.85 98.82 243.79 60.91 5 11 10 2456.4 -26.54 91.43
 66.18 22 33 46 4138.79 -22.86 180.17 243.79 60.92 23 42 45 3538.8 -26.55 172.78
 113.82 4 20 13 3056.41 -22.85 98.82 243.79 60.91 5 11 10 2456.4 -26.54 91.43
 66.18 22 33 46 4138.79 -22.86 180.17 243.79 60.92 23 42 45 3538.8 -26.55 172.78
 113.82 4 20 13 3056.41 -22.85 98.82 243.79 60.91 5 11 10 2456.4 -26.54 91.43

DIFFERENTIAL CORRECTIONS

TOE-1.4612 TRA-1.8283 TC3 .0938 BAU .0908
 RDE .2801 RRA .3230 RC3 -.2469 FAU .04975
 FDE 4.1168 FRA 3.7353 FC3-1.6737 BSP 10207
 BDE 1.4878 BRA 1.8566 BC3 .2641 FSP -1841

MID-COURSE EXECUTION ACCURACY

SGT 3051.1 SGR 606.7 SG3 622.8
 RRT -.9226 RRF .9765 RTF -.9672
 SGB 3110.8 R23 -.2047 R13 .9701
 SG1 3102.3 SG2 230.2 THA 169.55

ORBIT DETERMINATION ACCURACY

ST 1820.9 SR 344.4 SS 2300.2
 CRT -.9993 CRS -.9968 CST .9939
 LSA 2949.6 MSA 158.3 SSA 6.1
 EL1 1853.2 EL2 12.4 ALF 169.30

LAUNCH DATE NOV 28 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 392.679

RL 147.57 LAL .00 LOL 65.83 VL 27.555 GAL 6.02 AZL 84.28 MCA 165.38 SMA 127.69 ECC .18701 INC 5.7215 V1 30.191
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.560 GAP -6.36 AZP 95.54 TAL 151.92 TAP 317.30 RCA 103.81 APO 151.57 V2 34.980
 RC 51.091 GL 32.29 GP -17.90 ZAL 51.47 ZAP 32.65 ETS 32.47 ZAE 152.79 ETE 301.14 ZAC 120.65 ETC 175.94 CLP -27.76

PLANETOCENTRIC CONIC

C3 26.156 VHL 5.114 CLA 38.54 RAL 6.92 RAD 6568.1 VEL 12.146 PTH 2.18 VHP 5.221 DPA -9.80 RAP 29.95 ECC 1.4305
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.68 22 8 40 4195.25 -23.96 185.47 243.03 58.86 23 18 36 3595.3 -27.89 178.14
 117.32 4 30 58 3008.05 -23.94 95.57 243.03 58.85 5 21 6 2408.1 -27.88 88.25
 62.68 22 8 40 4195.25 -23.96 185.47 243.03 58.86 23 18 36 3595.3 -27.89 178.14
 117.32 4 30 58 3008.05 -23.94 95.57 243.03 58.85 5 21 6 2408.1 -27.88 88.25
 62.68 22 8 40 4195.25 -23.96 185.47 243.03 58.86 23 18 36 3595.3 -27.89 178.14
 117.32 4 30 58 3008.05 -23.94 95.57 243.03 58.85 5 21 6 2408.1 -27.88 88.25

DIFFERENTIAL CORRECTIONS

TOE-1.5345 TRA-1.7460 TC3 .1035 BAU .1068
 RDE .4614 RRA .4143 RC3 -.2873 FAU .05189
 FDE 4.6742 FRA 3.8119 FC3-1.7177 BSP 10358
 BDE 1.6024 BRA 1.7945 BC3 .3054 FSP -1995

MID-COURSE EXECUTION ACCURACY

SGT 3036.7 SGR 840.0 SG3 671.0
 RRT -.9423 RRF .9906 RTF -.9686
 SGB 3150.7 R23 -.2106 R13 .9736
 SG1 3139.0 SG2 272.0 THA 165.28

ORBIT DETERMINATION ACCURACY

ST 1875.7 SR 546.7 SS 2475.1
 CRT -.9967 CRS -.9996 CST .9941
 LSA 3149.2 MSA 162.4 SSA 4.6
 EL1 1953.3 EL2 42.5 ALF 163.79

LAUNCH DATE NOV 28 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 399.292

RL 147.57 LAL .00 LOL 65.83 VL 27.601 GAL 5.86 AZL 83.59 MCA 168.57 SMA 128.00 ECC .18319 INC 6.4145 V1 30.191
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.581 GAP -5.82 AZP 96.29 TAL 151.98 TAP 320.55 RCA 104.55 APO 151.45 V2 34.967
 RC 52.697 GL 35.76 GP -23.61 ZAL 53.60 ZAP 37.73 ETS 36.72 ZAE 147.86 ETE 298.20 ZAC 121.68 ETC 179.72 CLP -30.32

PLANETOCENTRIC CONIC

C3 27.551 VHL 5.249 CLA 41.41 RAL 4.31 RAD 6568.1 VEL 12.204 PTH 2.19 VHP 5.112 DPA -14.77 RAP 32.89 ECC 1.4534
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.42 21 38 44 4263.36 -25.04 192.00 242.34 55.87 22 49 48 3663.4 -29.33 184.82
 121.58 4 40 7 2965.76 -25.03 92.76 242.33 55.86 5 29 33 2365.8 -29.32 85.58
 58.42 21 38 44 4263.36 -25.04 192.00 242.34 55.87 22 49 48 3663.4 -29.33 184.82
 121.58 4 40 7 2965.76 -25.03 92.76 242.33 55.86 5 29 33 2365.8 -29.32 85.58
 58.42 21 38 44 4263.36 -25.04 192.00 242.34 55.87 22 49 48 3663.4 -29.33 184.82
 121.58 4 40 7 2965.76 -25.03 92.76 242.33 55.86 5 29 33 2365.8 -29.32 85.58

DIFFERENTIAL CORRECTIONS

TOE-1.6599 TRA-1.6535 TC3 .0986 BAU .1287
 RDE .7622 RRA .5413 RC3 -.3352 FAU .05164
 FDE 5.3027 FRA 3.7183 FC3-1.6228 BSP 10626
 BDE 1.8265 BRA 1.7399 BC3 .3494 FSP -2093

MID-COURSE EXECUTION ACCURACY

SGT 3014.2 SGR 1198.6 SG3 700.3
 RRT -.9521 RRF .9963 RTF -.9696
 SGB 3243.8 R23 -.1994 R13 .9785
 SG1 3225.7 SG2 342.4 THA 159.01

ORBIT DETERMINATION ACCURACY

ST 1950.5 SR 865.0 SS 2655.5
 CRT -.9947 CRS -1.0000 CST .9944
 LSA 3402.3 MSA 168.9 SSA 3.2
 EL1 2132.1 EL2 81.3 ALF 156.16

LAUNCH DATE NOV 28 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 405.881

RL 147.57 LAL .00 LOL 65.83 VL 27.643 GAL 5.72 AZL 82.37 MCA 171.76 SMA 128.29 ECC .17975 INC 7.6337 V1 30.191
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.600 GAP -5.30 AZP 97.56 TAL 152.05 TAP 323.80 RCA 105.23 APO 151.35 V2 34.954
 RC 54.398 GL 40.82 GP -32.80 ZAL 56.91 ZAP 45.01 ETS 42.71 ZAE 139.64 ETE 294.61 ZAC 122.29 ETC 186.12 CLP -32.74

PLANETOCENTRIC CONIC

C3 31.237 VHL 5.589 CLA 45.45 RAL .01 RAD 6568.2 VEL 12.354 PTH 2.23 VHP 5.231 DPA -22.84 RAP 37.60 ECC 1.5141
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.84 20 59 8 4354.85 -25.80 200.81 241.60 51.19 22 11 43 3754.8 -30.63 193.98
 127.16 4 45 24 2937.11 -25.79 90.82 241.59 51.18 5 34 21 2337.1 -30.62 84.00
 52.84 20 59 8 4354.85 -25.80 200.81 241.60 51.19 22 11 43 3754.8 -30.63 193.98
 127.16 4 45 24 2937.11 -25.79 90.82 241.59 51.18 5 34 21 2337.1 -30.62 84.00
 52.84 20 59 8 4354.85 -25.80 200.81 241.60 51.19 22 11 43 3754.8 -30.63 193.98
 127.16 4 45 24 2937.11 -25.79 90.82 241.59 51.18 5 34 21 2337.1 -30.62 84.00

DIFFERENTIAL CORRECTIONS

TOE-1.9199 TRA-1.5477 TC3 .0732 BAU .1582
 RDE 1.3288 RRA .7024 RC3 -.3716 FAU .04552
 FDE 5.8684 FRA 3.2372 FC3-1.2615 BSP 11252
 BDE 2.3349 BRA 1.6996 BC3 .3788 FSP -2026

MID-COURSE EXECUTION ACCURACY

SGT 2999.2 SGR 1755.4 SG3 672.4
 RRT -.9566 RRF .9982 RTF -.9706
 SGB 3475.2 R23 -.1669 R13 .9856
 SG1 3446.5 SG2 445.3 THA 150.21

ORBIT DETERMINATION ACCURACY

ST 2081.8 SR 1396.6 SS 2793.9
 CRT -.9940 CRS -1.0000 CST .9950
 LSA 3749.5 MSA 177.6 SSA 1.9
 EL1 2503.7 EL2 127.4 ALF 146.21

LAUNCH DATE NOV 28 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 5 1969

MELIOCENTRIC CONIC
 RL 147.57 LAL .00 LOL 65.83 VL 27.680 GAL 5.59 AZL 79.63 MCA 174.93 SMA 128.54 ECC .17667 INC10.3678 V1 30.191
 RP 108.45 LAP .91 LOP 240.85 VP 37.616 GAP -4.79 AZP 100.33 TAL 152.10 TAP 327.04 RCA 105.83 APO 151.25 V2 34.942
 RC 56.186 GL 49.04 GP -48.67 ZAL 62.86 ZAP 56.76 ETS 51.69 ZAE 124.73 ETE 292.83 ZAC 121.28 ETC 198.32 CLP -33.90

PLANETOCENTRIC CONIC
 C3 43.107 VHL 6.566 CLA 51.41 RAL 351.20 RAD 6568.6 VEL 12.825 PTH 2.33 VHP 6.134 OPA -36.29 RAP 47.48 ECC 1.7094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.11 19 57 46 4500.34 -24.55 213.82 239.84 43.29 21 12 46 3900.3 -30.24 207.89
 134.89 4 36 29 2954.17 -24.54 91.21 239.82 43.28 5 25 43 2354.2 -30.23 85.29
 45.11 19 57 46 4500.34 -24.55 213.82 239.84 43.29 21 12 46 3900.3 -30.24 207.89
 134.89 4 36 29 2954.17 -24.54 91.21 239.82 43.28 5 25 43 2354.2 -30.23 85.29
 45.11 19 57 46 4500.34 -24.55 213.82 239.84 43.29 21 12 46 3900.3 -30.24 207.89
 134.89 4 36 29 2954.17 -24.54 91.21 239.82 43.28 5 25 43 2354.2 -30.23 85.29

MID-COURSE EXECUTION ACCURACY
 SGT 3078.8 SGR 2538.3 SG3 501.3
 RRT -.9579 RRF .9979 RTF -.9744
 SGB 3990.2 R23 -.1093 R13 .9940
 SG1 3949.6 SG2 567.8 THA 140.73

ORBIT DETERMINATION ACCURACY
 ST 2424.0 SR 2274.6 SS 2706.6
 CRT -.9947 CRS -.9998 CST .9965
 LSA 4282.6 MSA 186.7 SSA .7
 EL1 3319.7 EL2 171.0 ALF 136.83

DIFFERENTIAL CORRECTIONS
 TDE-2.6922 TRA-1.4220 TC3 .0146 BAU .1788
 RDE 2.5788 RRA .7871 RC3 -.3100 FAU .02637
 FDE 5.7731 FRA 1.9964 FC3 -.5296 BSP 12742
 BDE 3.7280 BRA 1.6253 BC3 .3103 FSP -1551

LAUNCH DATE NOV 28 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 7 1969

MELIOCENTRIC CONIC
 RL 147.57 LAL .00 LOL 65.83 VL 27.713 GAL 5.49 AZL 68.00 MCA 178.06 SMA 128.77 ECC .17403 INC21.9944 V1 30.191
 RP 108.49 LAP .73 LOP 244.03 VP 37.629 GAP -4.30 AZP 111.98 TAL 152.11 TAP 330.17 RCA 106.36 APO 151.18 V2 34.929
 RC 58.051 GL 62.08 GP -75.51 ZAL 75.38 ZAP 75.81 ETS 91.55 ZAE 96.52 ETE 324.57 ZAC 116.20 ETC 247.50 CLP -11.52

PLANETOCENTRIC CONIC
 C3 136.715 VHL 11.693 CLA 56.93 RAL 328.08 RAD 6570.5 VEL 16.064 PTH 2.83 VHP 12.405 OPA -53.89 RAP 80.58 ECC 3.2500
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.30 18 5 54 4805.44 -11.89 230.97 230.22 33.89 19 26 0 4205.4 -18.48 226.69
 141.70 3 23 55 3174.40 -11.87 98.86 230.20 33.89 4 16 49 2574.4 -18.47 94.59
 38.30 18 5 54 4805.44 -11.89 230.97 230.22 33.89 19 26 0 4205.4 -18.48 226.69
 141.70 3 23 55 3174.40 -11.87 98.86 230.20 33.89 4 16 49 2574.4 -18.47 94.59
 38.30 18 5 54 4805.44 -11.89 230.97 230.22 33.89 19 26 0 4205.4 -18.48 226.69
 141.70 3 23 55 3174.40 -11.87 98.86 230.20 33.89 4 16 49 2574.4 -18.47 94.59

MID-COURSE EXECUTION ACCURACY
 SGT 4606.0 SGR 953.1 SG3 164.7
 RRT -.8096 RRF .8433 RTF -.9982
 SGB 4703.6 R23 -.0398 R13 .9992
 SG1 4671.1 SG2 551.7 THA 170.35

ORBIT DETERMINATION ACCURACY
 ST 4510.9 SR 877.4 SS 2020.5
 CRT -.9819 CRS -.9853 CST .9998
 LSA 5017.3 MSA 164.6 SSA .7
 EL1 4592.5 EL2 163.1 ALF 169.17

DIFFERENTIAL CORRECTIONS
 TDE-9.1898 TRA -.9757 TC3 -.1756 BAU .3244
 RDE 1.7749 RRA -.4287 RC3 -.0261 FAU-.01074
 FDE 3.8440 FRA .2779 FC3 .0680 BSP 14270
 BDE 9.3596 BRA 1.0657 BC3 .1775 FSP -520

LAUNCH DATE NOV 28 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 9 1969

MELIOCENTRIC CONIC
 RL 147.57 LAL .00 LOL 65.83 VL 27.743 GAL 5.35 AZL 111.47 MCA 181.48 SMA 128.98 ECC .17113 INC21.4708 V1 30.191
 RP 108.53 LAP .54 LOP 247.21 VP 37.639 GAP -3.74 AZP 68.53 TAL 152.36 TAP 333.84 RCA 106.91 APO 151.05 V2 34.917
 RC 59.985 GL -62.20 GP 79.95 ZAL 75.40 ZAP 80.40 ETS 272.00 ZAE 97.03 ETE 36.24 ZAC 85.82 ETC 110.43 CLP 17.19

PLANETOCENTRIC CONIC
 C3 130.661 VHL 11.431 CLA -51.63 RAL 42.03 RAD 6570.4 VEL 15.874 PTH 2.81 VHP 16.011 OPA 75.18 RAP 286.77 ECC 3.1503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.84 11 21 33 2112.51 11.55 56.06 302.70 140.68 11 56 45 1512.5 17.69 51.17
 135.16 19 58 12 5850.09 11.56 270.95 302.71 140.68 21 35 42 5250.1 17.70 266.05
 44.84 11 21 33 2112.51 11.55 56.06 302.70 140.68 11 56 45 1512.5 17.69 51.17
 135.16 19 58 12 5850.09 11.56 270.95 302.71 140.68 21 35 42 5250.1 17.70 266.05
 44.84 11 21 33 2112.51 11.55 56.06 302.70 140.68 11 56 45 1512.5 17.69 51.17
 135.16 19 58 12 5850.09 11.56 270.95 302.71 140.68 21 35 42 5250.1 17.70 266.05

MID-COURSE EXECUTION ACCURACY
 SGT 4695.1 SGR 1430.2 SG3 129.5
 RRT .9065 RRF -.9270 RTF -.9987
 SGB 4908.1 R23 -.0180 R13 -.9998
 SG1 4873.5 SG2 581.8 THA 15.67

ORBIT DETERMINATION ACCURACY
 ST 1497.9 SR 593.1 SS 635.0
 CRT .3747 CRS .5098 CST .9886
 LSA 1643.5 MSA 545.5 SSA .3
 EL1 1516.7 EL2 543.0 ALF 9.69

DIFFERENTIAL CORRECTIONS
 TDE-1.1013 TRA-5.7480 TC3 -.1944 BAU .3397
 RDE .8563 RRA-1.6895 RC3 .0075 FAU-.00783
 FDE .2057 FRA 1.8463 FC3 .0519 BSP 12751
 BDE 1.3950 BRA 5.9911 BC3 .1945 FSP -345

LAUNCH DATE NOV 28 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 11 1969

MELIOCENTRIC CONIC
 RL 147.57 LAL .00 LOL 65.83 VL 27.769 GAL 5.28 AZL 94.47 MCA 184.57 SMA 129.16 ECC .16919 INC 4.4651 V1 30.191
 RP 108.57 LAP .36 LOP 250.39 VP 37.647 GAP -3.29 AZP 85.55 TAL 152.32 TAP 336.89 RCA 107.31 APO 151.01 V2 34.906
 RC 61.981 GL -29.06 GP 57.02 ZAL 49.94 ZAP 67.18 ETS 323.27 ZAE 125.65 ETE 77.66 ZAC 93.50 ETC 150.57 CLP -44.56

PLANETOCENTRIC CONIC
 C3 19.652 VHL 4.433 CLA -17.96 RAL 32.40 RAD 6567.8 VEL 11.876 PTH 2.11 VHP 6.102 OPA 56.64 RAP 347.79 ECC 1.3234
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 11 29 58 1614.65 -1.93 6.30 252.97 118.26 11 56 53 1014.6 1.86 359.67
 90.00 18 32 57 5449.81 28.21 251.20 259.93 87.40 20 3 46 4849.8 27.55 242.60
 100.00 12 40 42 1386.38 -3.18 348.83 252.27 119.74 13 3 49 786.4 .80 342.30
 100.00 20 4 53 5153.30 29.64 229.29 259.83 85.90 21 30 47 4553.3 28.75 220.60
 110.00 13 25 45 1245.27 -6.34 336.17 250.32 123.66 13 46 30 645.3 -1.87 329.93
 110.00 21 36 21 4867.18 33.32 207.10 259.37 81.90 22 57 28 4267.2 31.85 198.19

MID-COURSE EXECUTION ACCURACY
 SGT 2210.8 SGR 3781.5 SG3 509.1
 RRT .9568 RRF -.9997 RTF -.9602
 SGB 4380.3 R23 -.0608 R13 -.9979
 SG1 4344.5 SG2 559.2 THA 60.23

ORBIT DETERMINATION ACCURACY
 ST 941.5 SR 1191.4 SS 1008.0
 CRT .9161 CRS .9977 CST .9413
 LSA 1795.9 MSA 310.9 SSA 2.6
 EL1 1488.1 EL2 302.3 ALF 52.27

DIFFERENTIAL CORRECTIONS
 TDE -.5424 TRA-1.5419 TC3 .0964 BAU .2987
 RDE -.3823 RRA-2.6585 RC3 1.1327 FAU .04059
 FDE .7043 FRA 4.1231 FC3-1.7881 BSP 13815
 BDE .6636 BRA 3.0733 BC3 1.1368 FSP -1591

LAUNCH DATE NOV 28 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 13, 1969

HELIOCENTRIC CONIC

DISTANCE 438.595

RL 147.57 LAL .00 LOL 65.83 VL 27.792 GAL 5.22 AZL 91.25 MCA 187.74 SMA 129.32 ECC .16741 INC 1.2472 V1 30.191
 RP 108.60 LAP .17 LOP 253.57 VP 37.654 GAP -2.82 AZP 88.76 TAL 152.33 TAP 340.07 RCA 107.67 APO 150.97 V2 34.894
 RC 64.032 GL -9.04 GP 42.52 ZAL 42.54 ZAP 62.75 ETS 334.38 ZAE 140.09 ETE 79.54 ZAC 98.83 ETC 153.89 CLP -51.59

PLANETOCENTRIC CONIC

C3 14.680 VHL 3.831 CLA .93 RAL 25.61 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 4.488 OPA 43.82 RAP 359.23 ECC 1.2416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 28 31 2171.73 -18.51 38.79 242.30 111.82 9 4 43 1571.7 -15.38 31.50
 90.00 20 40 15 4758.44 17.02 204.19 241.94 67.02 21 59 34 4158.4 13.76 197.03
 100.00 9 50 17 1907.96 -19.44 18.98 241.88 113.16 10 22 5 1308.0 -16.14 11.74
 100.00 22 1 10 4497.44 17.95 184.57 241.52 65.69 23 16 7 3897.4 14.52 177.46
 110.00 10 59 31 1691.26 -21.95 1.28 240.64 116.89 11 27 42 1091.3 -18.16 354.19
 110.00 23 8 25 4286.90 20.43 167.30 240.23 61.98 24 19 52 3686.9 16.52 160.36

DIFFERENTIAL CORRECTIONS

TDE -.4548 TRA -1.1533 TC3 .0639 BAU .2690
 RDE -.5549 RRA -1.9849 RC3 1.3689 FAU .07555
 FDE 1.9462 FRA 6.2652 FC3 -4.4552 BSP 12095
 BDE .7174 BRA 2.2957 BC3 1.3704 FSP -2802

MID-COURSE EXECUTION ACCURACY

SGT 1854.7 SGR 3256.1 SG3 897.6
 RRT .9498 RRF -.9996 RTF -.9502
 SGB 3747.3 R23 -.0734 R13 -.9969
 SG1 3712.6 SG2 508.7 THA 60.99

ORBIT DETERMINATION ACCURACY

ST 854.5 SR 1217.7 SS 1569.3
 CRT .9852 CRS .9986 CST .9928
 LSA 2159.0 MSA 120.2 SSA 7.3
 EL1 1482.8 EL2 120.1 ALF 55.08

LAUNCH DATE NOV 28 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 445.051

RL 147.57 LAL .00 LOL 65.83 VL 27.811 GAL 5.16 AZL 89.89 MCA 190.91 SMA 129.45 ECC .16589 INC .1058 V1 30.191
 RP 108.64 LAP -.02 LOP 256.74 VP 37.658 GAP -2.36 AZP 90.11 TAL 152.33 TAP 343.24 RCA 107.98 APO 150.93 V2 34.883
 RC 66.131 GL .80 GP 34.00 ZAL 41.68 ZAP 63.09 ETS 342.17 ZAE 148.58 ETE 82.09 ZAC 101.24 ETC 156.32 CLP -56.92

PLANETOCENTRIC CONIC

C3 14.040 VHL 3.747 CLA 10.11 RAL 22.07 RAD 6567.6 VEL 11.637 PTH 2.04 VHP 3.860 OPA 35.69 RAP 3.20 ECC 1.2311
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 8 2452.29 -24.54 57.12 240.65 104.60 7 45 0 1852.3 -22.29 49.17
 90.00 21 36 22 4458.16 8.27 186.48 237.05 62.82 22 50 40 3858.2 4.56 179.77
 100.00 8 30 29 2173.81 -25.57 36.33 240.34 106.03 9 6 42 1573.8 -23.13 28.38
 100.00 22 52 42 4211.87 9.22 167.87 236.54 61.44 24 2 54 3611.9 5.34 161.24
 110.00 9 50 5 1924.68 -28.31 16.41 239.34 110.00 10 22 10 1324.7 -25.33 8.51
 110.00 23 49 34 4033.77 11.71 152.87 235.05 57.65 24 56 48 3433.8 7.35 146.48

DIFFERENTIAL CORRECTIONS

TDE -.3961 TRA -.9048 TC3 -.0503 BAU .2326
 RDE -.6041 RRA -1.6174 RC3 1.2381 FAU .09954
 FDE 3.2643 FRA 7.7873 FC3 -6.1377 BSP 10468
 BDE .7224 BRA 1.8533 BC3 1.2391 FSP -3713

MID-COURSE EXECUTION ACCURACY

SGT 1530.8 SGR 2832.9 SG3 1198.3
 RRT .9351 RRF -.9993 RTF -.9348
 SGB 3220.0 R23 -.0775 R13 -.9963
 SG1 3183.7 SG2 482.7 THA 62.51

ORBIT DETERMINATION ACCURACY

ST 737.9 SR 1192.5 SS 2058.5
 CRT .9968 CRS .9984 CST .9995
 LSA 2489.9 MSA 62.9 SSA 15.1
 EL1 1401.5 EL2 50.3 ALF 58.29

LAUNCH DATE NOV 28 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 451.489

RL 147.57 LAL .00 LOL 65.83 VL 27.828 GAL 5.12 AZL 89.14 MCA 194.08 SMA 129.57 ECC .16465 INC .8563 V1 30.191
 RP 108.67 LAP -.21 LOP 259.91 VP 37.660 GAP -1.91 AZP 90.83 TAL 152.30 TAP 346.39 RCA 108.24 APO 150.91 V2 34.873
 RC 68.274 GL 6.35 GP 28.54 ZAL 42.08 ZAP 65.76 ETS 347.79 ZAE 154.01 ETE 86.99 ZAC 101.94 ETC 158.33 CLP -62.14

PLANETOCENTRIC CONIC

C3 14.031 VHL 3.746 CLA 15.26 RAL 19.93 RAD 6567.6 VEL 11.637 PTH 2.04 VHP 3.515 OPA 30.07 RAP 4.52 ECC 1.2309
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 22 2628.17 -26.99 69.41 240.44 98.92 6 55 10 2028.2 -25.48 61.06
 90.00 22 12 7 4281.99 2.68 176.56 235.35 61.80 23 23 29 3682.0 -1.11 169.93
 100.00 7 41 2 2339.01 -28.16 47.91 240.22 100.47 8 20 1 1739.0 -26.43 39.54
 100.00 23 25 8 4046.39 3.72 158.66 234.77 60.32 24 32 35 3446.4 -.26 152.13
 110.00 9 7 49 2067.45 -31.22 26.50 239.43 104.68 9 42 17 1467.4 -28.89 18.08
 110.00 0 18 46 3890.71 6.39 145.20 233.12 56.35 1 23 37 3290.7 1.93 138.96

DIFFERENTIAL CORRECTIONS

TDE -.3074 TRA -.6724 TC3 -.1908 BAU .2094
 RDE -.5997 RRA -1.3843 RC3 1.0999 FAU .11770
 FDE 4.4390 FRA 8.9176 FC3 -7.2625 BSP 9095
 BDE .6739 BRA 1.5389 BC3 1.1163 FSP -4453

MID-COURSE EXECUTION ACCURACY

SGT 1173.9 SGR 2517.5 SG3 1434.4
 RRT .8979 RRF -.9988 RTF -.8974
 SGB 2777.7 R23 -.0738 R13 -.9961
 SG1 2736.7 SG2 475.4 THA 66.53

ORBIT DETERMINATION ACCURACY

ST 568.6 SR 1129.5 SS 2431.6
 CRT .9993 CRS .9979 CST .9989
 LSA 2739.9 MSA 67.5 SSA 15.6
 EL1 1264.4 EL2 19.7 ALF 63.29

LAUNCH DATE NOV 28 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 457.907

RL 147.57 LAL .00 LOL 65.83 VL 27.842 GAL 5.09 AZL 88.67 MCA 197.26 SMA 129.67 ECC .16368 INC 1.3341 V1 30.191
 RP 108.70 LAP -.40 LOP 263.08 VP 37.661 GAP -1.47 AZP 91.27 TAL 152.25 TAP 349.51 RCA 108.44 APO 150.89 V2 34.862
 RC 70.456 GL 9.88 GP 24.75 ZAL 42.64 ZAP 69.68 ETS 351.95 ZAE 157.54 ETE 94.75 ZAC 101.59 ETC 160.02 CLP -67.52

PLANETOCENTRIC CONIC

C3 14.157 VHL 3.763 CLA 18.53 RAL 18.53 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 3.291 OPA 25.80 RAP 4.53 ECC 1.2330
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 44 2752.78 -27.98 78.39 240.51 94.52 6 19 37 2152.8 -27.06 69.84
 90.00 22 38 34 4161.33 -1.21 169.82 234.74 61.71 23 47 56 3561.3 -4.98 163.18
 100.00 7 6 14 2454.48 -29.30 56.30 240.37 96.20 7 47 9 1854.5 -28.13 47.69
 100.00 23 48 45 3934.86 -.05 152.53 234.10 60.11 24 54 20 3334.9 -4.03 146.00
 110.00 8 38 47 2164.92 -32.68 33.73 239.78 100.64 9 14 52 1564.9 -30.87 24.98
 110.00 0 36 37 3797.19 2.84 140.29 232.29 55.92 1 39 55 3197.2 -1.65 134.08

DIFFERENTIAL CORRECTIONS

TDE -.1873 TRA -.4350 TC3 -.3517 BAU .1987
 RDE -.5739 RRA -1.2205 RC3 .9891 FAU .13225
 FDE 5.4545 FRA 9.7991 FC3 -8.0870 BSP 7879
 BDE .6037 BRA 1.2957 BC3 1.0498 FSP -5081

MID-COURSE EXECUTION ACCURACY

SGT 799.6 SGR 2271.5 SG3 1624.9
 RRT .7826 RRF -.9980 RTF -.7814
 SGB 2408.1 R23 -.0577 R13 -.9964
 SG1 2360.0 SG2 479.1 THA 73.92

ORBIT DETERMINATION ACCURACY

ST 354.0 SR 1053.5 SS 2717.1
 CRT .9982 CRS .9972 CST .9923
 LSA 2934.5 MSA 83.1 SSA 14.0
 EL1 1111.2 EL2 20.2 ALF 71.45

LAUNCH DATE NOV 28 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

RL 147.57 LAL .00 LOL 65.83 VL 27.853 GAL 5.08 AZL 88.33 HCA 200.43 SMA 129.75 ECC .16297 INC 1.6667 V1 30.191
 RP 108.73 LAP -.58 LOP 266.25 VP 37.661 GAP -1.03 AZP 91.56 TAL 152.18 TAP 352.61 RCA 108.60 APO 150.89 V2 34.853
 RC 72.672 GL 12.31 GP 21.93 ZAL 43.12 ZAP 74.33 ETS 355.13 ZAE 159.58 ETE 105.24 ZAC 100.55 ETC 161.47 CLP -73.07

PLANETOCENTRIC CONIC

C3 14.324 VHL 3.785 CLA 20.78 RAL 17.57 RAD 6567.6 VEL 11.649 PTH 2.05 VHP 3.137 OPA 22.29 RAP 3.79 ECC 1.2357
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 42 2848.73 -28.30 85.38 240.63 91.03 5 52 11 2248.7 -27.86 76.75
 90.00 22 59 54 4070.53 -4.13 164.75 234.63 61.96 24 7 45 3470.5 -7.85 158.04
 100.00 6 39 51 2541.93 -29.77 62.76 240.57 92.83 7 22 13 1941.9 -29.06 54.03
 100.00 0 11 22 3852.56 -2.84 148.02 233.92 60.23 1 15 35 3252.6 -6.78 141.45
 110.00 8 17 23 2236.81 -33.45 39.19 240.18 97.49 8 54 39 1636.8 -32.05 30.24
 110.00 0 50 20 3730.45 .29 136.80 231.96 55.82 1 52 31 3130.5 -4.19 130.59

DIFFERENTIAL CORRECTIONS

TOE -.0397 TRA -.1877 TC3 -.5313 BAU .1998
 RDE -.5377 RRA-1.0947 RC3 .8981 FAU .14370
 FDE 6.3142 FRA10.4824 FC3-8.6855 BSP 6812
 BDE .5392 BRA 1.1107 BC3 1.0435 FSP -5604

MID-COURSE EXECUTION ACCURACY

SGT 307.7 SGR 2065.7 SG3 1776.3
 RRT .2997 RRF -.9969 RTF -.2960
 SGB 2127.1 R23 -.0210 R13 -.9967
 SG1 2071.6 SG2 483.0 THA 85.54

ORBIT DETERMINATION ACCURACY

ST 109.9 SR 972.6 SS 2935.8
 CRT .9092 CRS .9960 CST .8707
 LSA 3093.1 MSA 97.1 SSA 13.1
 EL1 977.7 EL2 45.5 ALF 84.12

LAUNCH DATE NOV 28 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

RL 147.57 LAL .00 LOL 65.83 VL 27.862 GAL 5.08 AZL 88.09 HCA 203.60 SMA 129.81 ECC .16252 INC 1.9131 V1 30.191
 RP 108.76 LAP -.77 LOP 269.42 VP 37.659 GAP -.60 AZP 91.75 TAL 152.07 TAP 355.67 RCA 108.72 APO 150.91 V2 34.844
 RC 74.919 GL 14.08 GP 19.69 ZAL 43.50 ZAP 79.44 ETS 357.63 ZAE 160.21 ETE 117.43 ZAC 99.06 ETC 162.71 CLP -78.78

PLANETOCENTRIC CONIC

C3 14.511 VHL 3.809 CLA 22.43 RAL 16.89 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 3.031 OPA 19.24 RAP 2.57 ECC 1.2388
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 7 2927.14 -28.26 91.12 240.78 88.16 5 29 54 2327.1 -28.22 82.45
 90.00 23 18 6 3997.88 -6.44 160.66 234.81 62.37 24 24 44 3397.9 -10.09 153.88
 100.00 6 18 51 2612.02 -29.89 67.96 240.81 90.09 7 2 23 2012.0 -29.56 59.18
 100.00 0 26 59 3788.23 -5.01 144.47 234.02 60.49 1 30 8 3188.2 -8.90 137.85
 110.00 8 0 52 2292.84 -33.86 43.52 240.60 94.97 8 39 5 1692.8 -32.81 34.44
 110.00 1 1 28 3680.17 -1.63 134.18 231.92 55.85 2 2 48 3080.2 -6.10 127.95

DIFFERENTIAL CORRECTIONS

TOE .1303 TRA .0686 TC3 -.7266 BAU .2122
 RDE -.4954 RRA -.9910 RC3 .8178 FAU .15187
 FDE 7.0138 FRA10.9803 FC3-9.0608 BSP 5992
 BDE .5123 BRA .9934 BC3 1.0940 FSP -6003

MID-COURSE EXECUTION ACCURACY

SGT 597.8 SGR 1882.6 SG3 1889.3
 RRT -.5963 RRF -.9954 RTF .6031
 SGB 1975.2 R23 .0373 R13 -.9947
 SG1 1918.2 SG2 471.0 THA 101.42

ORBIT DETERMINATION ACCURACY

ST 199.5 SR 888.6 SS 3099.5
 CRT -.9168 CRS .9944 CST -.9531
 LSA 3228.7 MSA 108.6 SSA 12.7
 EL1 907.4 EL2 78.0 ALF 101.72

LAUNCH DATE NOV 28 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

RL 147.57 LAL .00 LOL 65.83 VL 27.868 GAL 5.09 AZL 87.90 HCA 206.77 SMA 129.86 ECC .16231 INC 2.1039 V1 30.191
 RP 108.78 LAP -.95 LOP 272.59 VP 37.656 GAP -.18 AZP 91.88 TAL 151.93 TAP 358.71 RCA 108.78 APO 150.94 V2 34.835
 RC 77.194 GL 15.40 GP 17.83 ZAL 43.76 ZAP 84.84 ETS 359.63 ZAE 159.54 ETE 129.58 ZAC 97.28 ETC 163.76 CLP -84.58

PLANETOCENTRIC CONIC

C3 14.719 VHL 3.837 CLA 23.69 RAL 16.43 RAD 6567.6 VEL 11.666 PTH 2.05 VHP 2.965 OPA 16.48 RAP 1.06 ECC 1.2422
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 21 14 2994.11 -28.02 96.00 240.96 85.72 5 11 8 2394.1 -28.32 87.35
 90.00 23 34 17 3937.24 -8.34 157.22 235.16 62.84 24 39 54 3337.2 -11.92 150.36
 100.00 6 1 35 2670.55 -29.82 72.31 241.08 87.81 6 46 6 2070.6 -29.80 63.51
 100.00 0 40 32 3736.03 -6.75 141.57 234.30 60.81 1 42 48 3136.0 -10.59 134.89
 110.00 7 47 47 2338.34 -34.08 47.05 241.05 92.88 8 26 45 1738.3 -33.30 37.90
 110.00 1 10 50 3641.01 -3.13 132.13 232.06 55.94 2 11 31 3041.0 -7.57 125.87

DIFFERENTIAL CORRECTIONS

TOE .3182 TRA .3317 TC3 -.9283 BAU .2345
 RDE -.4468 RRA -.8990 RC3 .7475 FAU .15746
 FDE 7.5181 FRA11.2667 FC3-9.2615 BSP 5642
 BDE .5485 BRA .9583 BC3 1.1919 FSP -6312

MID-COURSE EXECUTION ACCURACY

SGT 1012.9 SGR 1709.9 SG3 1959.2
 RRT -.8770 RRF -.9931 RTF .8855
 SGB 1987.4 R23 .0907 R13 -.9895
 SG1 1940.6 SG2 428.9 THA 119.00

ORBIT DETERMINATION ACCURACY

ST 502.6 SR 799.4 SS 3204.4
 CRT -.9678 CRS .9920 CST -.9916
 LSA 3338.5 MSA 118.4 SSA 12.4
 EL1 938.1 EL2 107.8 ALF 121.79

LAUNCH DATE NOV 28 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

RL 147.57 LAL .00 LOL 65.83 VL 27.873 GAL 5.12 AZL 87.74 HCA 209.94 SMA 129.89 ECC .16234 INC 2.2569 V1 30.191
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.652 GAP .24 AZP 91.96 TAL 151.76 TAP 358.71 RCA 108.80 APO 150.98 V2 34.827
 RC 79.493 GL 16.42 GP 16.22 ZAL 43.93 ZAP 90.37 ETS 359.63 ZAE 157.83 ETE 140.19 ZAC 95.34 ETC 164.62 CLP -90.39

PLANETOCENTRIC CONIC

C3 14.952 VHL 3.867 CLA 24.68 RAL 16.13 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 2.932 OPA 13.95 RAP 359.42 ECC 1.2461
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 2 3053.33 -27.64 100.29 241.18 83.60 4 54 55 2453.3 -28.24 91.68
 90.00 23 49 5 3885.03 -9.95 154.23 235.67 63.35 24 53 50 3285.0 -13.45 147.30
 100.00 5 47 7 2720.95 -29.63 76.05 241.39 85.85 6 32 28 2120.9 -29.89 67.25
 100.00 0 52 37 3692.64 -8.18 139.15 234.72 61.15 1 54 9 3092.6 -11.97 132.41
 110.00 7 37 14 2376.43 -34.17 50.02 241.53 91.13 8 16 51 1776.4 -33.63 40.82
 110.00 1 18 59 3609.92 -4.31 130.51 232.35 56.06 2 19 9 3009.9 -8.74 124.22

DIFFERENTIAL CORRECTIONS

TOE .5172 TRA .5966 TC3-1.1326 BAU .2642
 RDE -.3944 RRA -.8154 RC3 .6815 FAU .15990
 FDE 7.8299 FRA11.3505 FC3-9.2582 BSP 5863
 BDE .6504 BRA 1.0103 BC3 1.3219 FSP -6497

MID-COURSE EXECUTION ACCURACY

SGT 1516.9 SGR 1545.1 SG3 1986.2
 RRT -.9400 RRF -.9900 RTF .9512
 SGB 2165.3 R23 .1087 R13 -.9859
 SG1 2132.6 SG2 375.0 THA 134.44

ORBIT DETERMINATION ACCURACY

ST 820.4 SR 707.7 SS 3259.1
 CRT -.9725 CRS .9884 CST -.9965
 LSA 3432.1 MSA 126.9 SSA 12.3
 EL1 1076.2 EL2 125.7 ALF 139.34

LAUNCH DATE NOV 28 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 489.669

RL 147.57 LAL .00 LOL 65.83 VL 27.875 GAL 5.16 AZL 87.62 HCA 213.11 SMA 129.91 ECC .16261 INC 2.3830 V1 30.191
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.647 GAP .65 AZP 92.00 TAL 151.56 TAP 4.67 RCA 108.78 APO 151.03 V2 34.820
 RC 81.813 GL 17.21 GP 14.80 ZAL 44.01 ZAP 95.92 ETS 2.55 ZAE 155.39 ETE 148.67 ZAC 93.36 ETC 165.31 CLP -96.12

PLANETOCENTRIC CONIC

C3 15.214 VHL 3.901 OLA 25.48 RAL 15.96 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 2.930 OPA 11.61 RAP 357.74 ECC 1.2504
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 48 49 3107.13 -27.17 104.16 241.46 81.71 4 40 36 2507.1 -28.04 95.60
 90.00 0 6 54 3839.02 -11.34 151.56 236.29 63.88 1 10 53 3239.0 -14.76 144.56
 100.00 5 34 50 2765.33 -29.37 79.32 241.77 84.15 6 20 55 2165.3 -29.87 70.55
 100.00 1 3 34 3656.04 -9.38 137.09 235.26 61.49 2 4 30 3056.0 -13.12 130.30
 110.00 7 28 42 2409.08 -34.18 52.57 242.08 89.62 8 8 51 1809.1 -33.86 43.34
 110.00 1 26 12 3585.06 -5.25 129.20 232.74 56.17 2 25 57 2985.1 -9.66 122.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7210 TRA .8589 TC3-1.3325 BAU .2988 SGT 2038.5 SGR 1388.0 SG3 1972.8 ST 1139.6 SR 615.8 SS 3269.2
 RDE -.3397 RRA -.7386 RC3 .6189 FAU .15918 RRT -.9578 RRF -.9856 RTF .9732 CRT -.9692 CRS .9827 CST -.9980
 FDE 7.9545 FRA11.2464 FC3-9.0578 BSP 6615 SGB 2466.2 R23 .0970 R13 -.9861 LSA 3513.8 MSA 134.3 SSA 12.1
 BDE .7971 BRA 1.1328 BC3 1.4692 FSP -6553 SG1 2443.6 SG2 332.8 THA 146.18 EL1 1288.4 EL2 134.1 ALF 152.03

LAUNCH DATE NOV 28 1968

FLIGHT TIME 184.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 495.956

RL 147.57 LAL .00 LOL 65.83 VL 27.876 GAL 5.22 AZL 87.51 HCA 216.27 SMA 129.91 ECC .16312 INC 2.4893 V1 30.191
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.641 GAP 1.06 AZP 92.01 TAL 151.32 TAP 7.59 RCA 108.72 APO 151.10 V2 34.813
 RC 84.153 GL 17.83 GP 13.51 ZAL 44.00 ZAP 101.37 ETS 3.61 ZAE 152.54 ETE 155.16 ZAC 91.44 ETC 165.83 CLP -101.70

PLANETOCENTRIC CONIC

C3 15.510 VHL 3.938 OLA 26.13 RAL 15.91 RAD 6567.6 VEL 11.700 PTH 2.06 VHP 2.957 OPA 9.46 RAP 356.12 ECC 1.2553
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 35 9 3157.13 -26.63 107.72 241.80 80.01 4 27 46 2557.1 -27.74 99.23
 90.00 0 20 10 3797.69 -12.57 149.15 237.03 64.42 1 23 28 3197.7 -15.91 142.07
 100.00 5 24 20 2805.09 -29.05 82.24 242.22 82.64 6 11 6 2205.1 -29.77 73.50
 100.00 1 13 39 3624.96 -10.38 135.33 235.90 61.81 2 14 4 3025.0 -14.07 128.48
 110.00 7 21 47 2437.60 -34.15 54.80 242.69 88.30 8 2 25 1837.6 -34.00 45.56
 110.00 1 32 42 3565.22 -6.00 128.15 233.24 56.28 2 32 7 2965.2 -10.39 121.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9247 TRA 1.1150 TC3-1.5206 BAU .3360 SGT 2551.2 SGR 1240.3 SG3 1924.1 ST 1450.8 SR 526.4 SS 3241.5
 RDE -.2846 RRA -.6683 RC3 .5592 FAU .15545 RRT -.9611 RRF -.9794 RTF .9826 CRT -.9604 CRS .9734 CST -.9986
 FDE 7.9109 FRA10.9831 FC3-8.6768 BSP 7719 SGB 2836.7 R23 .0753 R13 -.9878 LSA 3587.3 MSA 141.0 SSA 12.0
 BDE .9675 BRA 1.3000 BC3 1.6202 FSP -6485 SG1 2819.8 SG2 309.8 THA 154.63 EL1 1537.1 EL2 138.4 ALF 160.62

LAUNCH DATE NOV 28 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 502.220

RL 147.57 LAL .00 LOL 65.83 VL 27.875 GAL 5.29 AZL 87.42 HCA 219.44 SMA 129.90 ECC .16386 INC 2.5807 V1 30.191
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.634 GAP 1.47 AZP 91.99 TAL 151.04 TAP 10.48 RCA 108.62 APO 151.19 V2 34.807
 RC 86.508 GL 18.30 GP 12.35 ZAL 43.92 ZAP 106.66 ETS 4.46 ZAE 149.51 ETE 160.03 ZAC 89.66 ETC 166.21 CLP -107.06

PLANETOCENTRIC CONIC

C3 15.845 VHL 3.981 OLA 26.66 RAL 15.96 RAD 6567.6 VEL 11.714 PTH 2.06 VHP 3.008 OPA 7.52 RAP 354.64 ECC 1.2608
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 39 3204.53 -26.03 111.06 242.21 78.44 4 16 4 2604.5 -27.36 102.65
 90.00 0 33 3 3759.94 -13.67 146.92 237.87 64.96 1 35 43 3159.9 -16.93 139.76
 100.00 5 15 23 2841.12 -28.71 84.86 242.75 81.30 6 2 44 2241.1 -29.62 76.17
 100.00 1 23 1 3598.58 -11.23 133.83 236.63 62.11 2 22 59 2998.6 -14.87 126.93
 110.00 7 16 16 2462.88 -34.08 56.77 243.38 87.13 7 57 19 1862.9 -34.10 47.53
 110.00 1 38 37 3549.59 -6.59 127.33 233.84 56.38 2 37 46 2949.6 -10.97 120.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1244 TRA 1.3631 TC3-1.6902 BAU .3735 SGT 3041.4 SGR 1104.4 SG3 1848.0 ST 1747.8 SR 442.7 SS 3186.5
 RDE -.2308 RRA -.6050 RC3 .5020 FAU .14874 RRT -.9571 RRF -.9706 RTF .9872 CRT -.9444 CRS .9581 CST -.9990
 FDE 7.7362 FRA10.6023 FC3-8.1267 BSP 8985 SGB 3235.8 R23 .0561 R13 -.9896 LSA 3658.3 MSA 147.1 SSA 12.0
 BDE 1.1478 BRA 1.4914 BC3 1.7632 FSP -6290 SG1 3221.6 SG2 302.0 THA 160.66 EL1 1797.4 EL2 141.5 ALF 166.46

LAUNCH DATE NOV 28 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 508.460

RL 147.57 LAL .00 LOL 65.83 VL 27.872 GAL 5.38 AZL 87.34 HCA 222.60 SMA 129.88 ECC .16483 INC 2.6606 V1 30.191
 RP 108.89 LAP -1.80 LOP 288.40 VP 37.627 GAP 1.88 AZP 91.96 TAL 150.73 TAP 13.34 RCA 108.47 APO 151.29 V2 34.802
 RC 88.877 GL 18.65 GP 11.29 ZAL 43.77 ZAP 111.71 ETS 5.15 ZAE 146.47 ETE 163.69 ZAC 88.10 ETC 166.46 CLP -112.16

PLANETOCENTRIC CONIC

C3 16.222 VHL 4.028 OLA 27.10 RAL 16.10 RAD 6567.7 VEL 11.731 PTH 2.07 VHP 3.084 OPA 5.77 RAP 353.35 ECC 1.2670
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 11 4 3250.28 -25.37 114.25 242.68 76.97 4 5 14 2650.3 -26.91 105.92
 90.00 0 45 45 3724.89 -14.67 144.83 238.82 65.50 1 47 50 3124.9 -17.85 137.60
 100.00 5 7 46 2874.04 -28.35 87.24 243.36 80.10 5 55 40 2274.0 -29.43 78.60
 100.00 1 31 43 3576.36 -11.93 132.55 237.45 62.39 2 31 20 2976.4 -15.54 125.62
 110.00 7 11 56 2485.53 -33.99 58.54 244.16 86.09 7 53 21 1885.5 -34.15 49.29
 110.00 1 44 3 3537.63 -7.04 126.70 234.52 56.46 2 43 1 2937.6 -11.40 120.32

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.3148 TRA 1.5995 TC3-1.8406 BAU .4110 SGT 3497.2 SGR 981.0 SG3 1749.8 ST 2021.9 SR 365.3 SS 3102.3
 RDE -.1784 RRA -.5476 RC3 .4513 FAU .14081 RRT -.9475 RRF -.9582 RTF .9898 CRT -.9158 CRS .9313 CST -.9992
 FDE 7.4399 FRA10.1191 FC3-7.5149 BSP 10330 SGB 3632.1 R23 .0416 R13 -.9910 LSA 3717.8 MSA 152.9 SSA 11.9
 BDE 1.3268 BRA 1.6906 BC3 1.8951 FSP -6039 SG1 3619.5 SG2 303.2 THA 165.01 EL1 2049.6 EL2 144.7 ALF 170.56

LAUNCH DATE NOV 28 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

RL 147.57 LAL .00 LOL 65.83 VL 27.867 GAL 5.48 AZL 87.27 HCA 225.77 SMA 129.85 ECC .16603 INC 2.7313 V1 30.191
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.620 GAP 2.28 AZP 91.91 TAL 150.38 TAP 16.15 RCA 108.29 APO 151.41 V2 34.797
 RC 91.256 GL 18.91 GP 10.33 ZAL 43.55 ZAP 116.48 ETS 5.70 ZAE 143.52 ETE 166.45 ZAC 86.77 ETC 166.61 CLP-116.95

PLANETOCENTRIC CONIC

C3 16.646 VHL 4.080 CLA 27.47 RAL 16.32 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 3.180 DPA 4.24 RAP 352.27 ECC 1.2739
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 0 6 3295.29 -24.64 117.34 243.22 75.59 3 55 1 2695.3 -26.38 109.11
 90.00 0 58 28 3691.67 -15.60 142.83 239.87 66.06 2 0 0 3091.7 -18.70 135.53
 100.00 5 1 25 2904.23 -27.98 89.41 244.06 79.02 5 49 49 2304.2 -29.21 80.82
 100.00 1 39 51 3557.96 -12.51 131.49 238.35 62.63 2 39 9 2958.0 -16.08 124.52
 110.00 7 8 39 2506.05 -33.88 60.13 245.01 85.16 7 50 25 1906.0 -34.18 50.90
 110.00 1 49 6 3528.91 -7.37 126.23 235.28 56.53 2 47 55 2928.9 -11.72 119.84

DIFFERENTIAL CORRECTIONS

TDE 1.4952 TRA 1.8253 TC3-1.9675 BAU .4470
 RDE -.1289 RRA -.4969 RC3 .4054 FAU .13162
 FDE 7.0728 FRA 9.5861 FC3-6.8455 BSP 11656
 BDE 1.5008 BRA 1.8918 BC3 2.0088 FSP -5730

MID-COURSE EXECUTION ACCURACY

SGT 3915.8 SGR 872.2 SG3 1639.5
 RRT -.9321 RRF -.9413 RTF .9913
 SGB 4011.7 R23 .0317 R13 -.9920
 SG1 3999.8 SG2 309.2 THA 168.20

ORBIT DETERMINATION ACCURACY

ST 2272.1 SR 297.6 SS 3002.2
 CRT -.8655 CRS .8839 CST -.9993
 LSA 3773.5 MSA 158.3 SSA 11.9
 EL1 2286.7 EL2 148.1 ALF 173.51

LAUNCH DATE NOV 28 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

RL 147.57 LAL .00 LOL 65.83 VL 27.862 GAL 5.59 AZL 87.21 HCA 228.93 SMA 129.81 ECC .16747 INC 2.7948 V1 30.191
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.612 GAP 2.69 AZP 91.84 TAL 150.00 TAP 18.93 RCA 108.07 APO 151.55 V2 34.793
 RC 93.644 GL 19.07 GP 9.46 ZAL 43.28 ZAP 120.96 ETS 6.15 ZAE 140.74 ETE 168.56 ZAC 85.72 ETC 166.68 CLP-121.43

PLANETOCENTRIC CONIC

C3 17.121 VHL 4.138 CLA 27.77 RAL 16.61 RAD 6567.7 VEL 11.769 PTH 2.08 VHP 3.295 DPA 2.93 RAP 351.43 ECC 1.2818
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 49 27 3340.64 -23.84 120.42 243.82 74.24 3 45 7 2740.6 -25.77 112.29
 90.00 1 11 29 3659.27 -16.48 140.87 241.03 66.64 2 12 29 3059.3 -19.50 133.49
 100.00 4 56 13 2931.96 -27.60 91.38 244.85 78.04 5 45 5 2332.0 -28.97 82.85
 100.00 1 47 24 3543.18 -12.97 130.64 239.32 62.83 2 46 27 2943.2 -16.51 123.64
 110.00 7 6 20 2524.77 -33.76 61.58 245.96 84.31 7 48 24 1924.8 -34.18 52.36
 110.00 1 53 47 3523.14 -7.59 125.93 236.13 56.57 2 52 30 2923.1 -11.93 119.53

DIFFERENTIAL CORRECTIONS

TDE 1.6649 TRA 2.0413 TC3-2.0700 BAU .4811
 RDE -.0829 RRA -.4525 RC3 .3644 FAU .12169
 FDE 6.6663 FRA 9.0340 FC3-6.1535 BSP 12919
 BDE 1.6669 BRA 2.0909 BC3 2.1018 FSP -5382

MID-COURSE EXECUTION ACCURACY

SGT 4295.8 SGR 778.2 SG3 1523.7
 RRT -.9104 RRF -.9186 RTF .9922
 SGB 4365.7 R23 .0251 R13 -.9926
 SG1 4354.2 SG2 317.6 THA 170.58

ORBIT DETERMINATION ACCURACY

ST 2497.1 SR 241.7 SS 2892.7
 CRT -.7768 CRS .7993 CST -.9993
 LSA 3825.6 MSA 163.4 SSA 11.9
 EL1 2504.2 EL2 151.7 ALF 175.68

LAUNCH DATE NOV 28 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

RL 147.57 LAL .00 LOL 65.83 VL 27.854 GAL 5.72 AZL 87.15 HCA 232.09 SMA 129.76 ECC .16914 INC 2.8525 V1 30.191
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.603 GAP 3.09 AZP 91.75 TAL 149.58 TAP 21.68 RCA 107.81 APO 151.71 V2 34.789
 RC 96.038 GL 19.16 GP 8.68 ZAL 42.95 ZAP 125.13 ETS 6.52 ZAE 138.16 ETE 170.17 ZAC 84.94 ETC 166.70 CLP-125.60

PLANETOCENTRIC CONIC

C3 17.653 VHL 4.202 CLA 28.01 RAL 16.98 RAD 6567.7 VEL 11.791 PTH 2.08 VHP 3.428 DPA 1.81 RAP 350.83 ECC 1.2905
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 38 33 3388.08 -22.92 123.60 244.46 72.90 3 35 1 2788.1 -25.05 115.57
 90.00 1 25 18 3625.99 -17.37 138.83 242.32 67.28 2 25 44 3026.0 -20.30 131.38
 100.00 4 52 9 2957.36 -27.23 93.18 245.73 77.17 5 41 26 2357.4 -28.72 84.69
 100.00 1 54 23 3531.94 -13.32 129.99 240.37 62.99 2 53 15 2931.9 -16.84 122.96
 110.00 7 4 52 2541.97 -33.64 62.91 246.99 83.53 7 47 14 1942.0 -34.17 53.70
 110.00 1 58 9 3520.10 -7.70 125.77 237.05 56.59 2 56 49 2920.1 -12.04 119.36

DIFFERENTIAL CORRECTIONS

TDE 1.8234 TRA 2.2488 TC3-2.1483 BAU .5129
 RDE -.0403 RRA -.4139 RC3 .3281 FAU .11155
 FDE 6.2413 FRA 8.4838 FC3-5.4706 BSP 14100
 BDE 1.8239 BRA 2.2866 BC3 2.1732 FSP -5018

MID-COURSE EXECUTION ACCURACY

SGT 4637.7 SGR 698.4 SG3 1407.3
 RRT -.8814 RRF -.8890 RTF .9926
 SGB 4690.0 R23 .0204 R13 -.9929
 SG1 4678.5 SG2 327.0 THA 172.40

ORBIT DETERMINATION ACCURACY

ST 2696.7 SR 199.7 SS 2777.2
 CRT -.6255 CRS .6529 CST -.9993
 LSA 3872.5 MSA 168.2 SSA 12.0
 EL1 2699.6 EL2 155.6 ALF 177.34

LAUNCH DATE NOV 28 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

RL 147.57 LAL .00 LOL 65.83 VL 27.846 GAL 5.87 AZL 87.09 HCA 235.25 SMA 129.70 ECC .17105 INC 2.9054 V1 30.191
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.595 GAP 3.50 AZP 91.66 TAL 149.13 TAP 24.39 RCA 107.52 APO 151.89 V2 34.787
 RC 98.436 GL 19.19 GP 7.98 ZAL 42.57 ZAP 129.01 ETS 6.83 ZAE 135.79 ETE 171.43 ZAC 84.43 ETC 166.68 CLP-129.47

PLANETOCENTRIC CONIC

C3 18.246 VHL 4.272 CLA 28.20 RAL 17.41 RAD 6567.7 VEL 11.816 PTH 2.09 VHP 3.577 DPA .89 RAP 350.48 ECC 1.3003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 25 54 3442.49 -21.79 127.19 245.10 71.45 3 23 17 2842.5 -24.12 119.29
 90.00 1 41 21 3586.99 -18.38 136.41 243.76 68.07 2 41 8 2987.0 -21.19 128.87
 100.00 4 49 11 2980.52 -26.87 94.80 246.71 76.38 5 38 52 2380.5 -28.48 86.37
 100.00 2 0 46 3524.19 -13.56 129.53 241.49 63.10 2 59 30 2924.2 -17.06 122.49
 110.00 7 4 13 2557.88 -33.51 64.13 248.12 82.82 7 46 51 1957.9 -34.14 54.94
 110.00 2 2 13 3519.60 -7.72 125.74 238.04 56.60 3 0 53 2919.6 -12.06 119.33

DIFFERENTIAL CORRECTIONS

TDE 1.9743 TRA 2.4525 TC3-2.1978 BAU .5409
 RDE -.0012 RRA -.3809 RC3 .2952 FAU .10100
 FDE 5.8276 FRA 7.9630 FC3-4.7923 BSP 15135
 BDE 1.9743 BRA 2.4819 BC3 2.2175 FSP -4633

MID-COURSE EXECUTION ACCURACY

SGT 4946.9 SGR 632.3 SG3 1295.3
 RRT -.8446 RRF -.8515 RTF .9928
 SGB 4987.1 R23 .0170 R13 -.9929
 SG1 4975.8 SG2 336.5 THA 173.81

ORBIT DETERMINATION ACCURACY

ST 2875.8 SR 174.1 SS 2664.4
 CRT -.3981 CRS .4300 CST -.9994
 LSA 3920.4 MSA 172.8 SSA 12.1
 EL1 2876.6 EL2 159.7 ALF 178.62

LAUNCH DATE NOV 28 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 539.312

RL 147.57 LAL .00 LOL 65.83 VL 27.837 GAL 6.04 AZL 87.05 HCA 238.41 SMA 129.63 ECC .17320 INC 2.9544 V1 30.191
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.586 GAP 3.91 AZP 91.55 TAL 148.65 TAP 27.06 RCA 107.18 APO 152.09 V2 34.785
 RC 100.837 GL 19.16 GP 7.35 ZAL 42.13 ZAP 132.61 ETS 7.10 ZAE 133.65 ETE 172.42 ZAC 84.17 ETC 166.64 CLP-133.05

PLANETOCENTRIC CONIC

C3 18.907 VHL 4.348 CLA 28.35 RAL 17.89 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 3.740 DPA .15 RAP 350.34 ECC 1.3112
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.49 1 53 0 3563.86 -19.98 135.38 245.55 69.46 2 52 24 2963.9 -22.60 127.68
 91.51 2 18 9 3482.33 -19.97 129.41 245.55 69.44 3 16 11 2882.3 -22.59 121.71
 100.00 4 47 18 3001.45 -26.53 96.26 247.79 75.69 5 37 20 2401.4 -28.23 87.88
 100.00 2 6 31 3519.97 -13.69 129.29 242.67 63.17 3 5 11 2920.0 -17.18 122.24
 110.00 7 4 17 2572.67 -33.38 65.26 249.33 82.16 7 47 10 1972.7 -34.10 56.10
 110.00 2 6 2 3521.51 -7.65 125.84 239.11 56.58 3 4 43 2921.5 -11.99 119.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.1131 TRA 2.6490 TC3-2.2302 BAU .5678 SGT 5219.8 SGR 577.9 SG3 1187.9 ST 3028.5 SR 165.0 SS 2548.0
 RDE .0354 RRA -1.3520 RC3 .2672 FAU .09143 RRT -.7993 RRF -.8057 RTF .9928 CRT -.1171 CRS .1517 CST -.9994
 FDE 5.4166 FRA 7.4618 FC3-4.1866 BSP 16127 SGB 5251.7 R23 .0143 R13 -.9929 LSA 3957.2 MSA 177.3 SSA 12.1
 BDE 2.1134 BRA 2.6723 BC3 2.2462 FSP -4280 SGI 5240.3 SG2 345.9 THA 174.92 EL1 3028.6 EL2 163.9 ALF 179.63

LAUNCH DATE NOV 28 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 545.407

RL 147.57 LAL .00 LOL 65.83 VL 27.826 GAL 6.22 AZL 87.00 HCA 241.58 SMA 129.56 ECC .17562 INC 3.0002 V1 30.191
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.577 GAP 4.32 AZP 91.43 TAL 148.13 TAP 29.71 RCA 106.81 APO 152.31 V2 34.784
 RC 103.240 GL 19.07 GP 6.79 ZAL 41.66 ZAP 135.94 ETS 7.35 ZAE 131.70 ETE 173.21 ZAC 84.16 ETC 166.59 CLP-136.36

PLANETOCENTRIC CONIC

C3 19.642 VHL 4.432 CLA 28.47 RAL 18.43 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 3.916 DPA -.42 RAP 350.43 ECC 1.3233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.97 1 42 25 3614.11 -19.84 139.00 246.73 69.16 2 42 39 3014.1 -22.50 131.32
 93.03 2 33 2 3450.11 -19.83 126.99 246.73 69.15 3 30 32 2850.1 -22.49 119.32
 100.00 4 46 31 3020.17 -26.20 97.56 248.96 75.08 5 36 51 2420.2 -28.00 89.22
 100.00 2 11 38 3519.28 -13.71 129.25 243.91 63.18 3 10 17 2919.3 -17.20 122.20
 110.00 7 5 3 2586.50 -33.24 66.32 250.64 81.54 7 48 9 1986.5 -34.06 57.18
 110.00 2 9 35 3525.71 -7.49 126.06 240.24 56.55 3 8 21 2925.7 -11.84 119.67

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2433 TRA 2.8433 TC3-2.2422 BAU .5922 SGT 5462.9 SGR 534.2 SG3 1087.7 ST 3160.4 SR 170.0 SS 2434.6
 RDE .0695 RRA -1.3269 RC3 .2423 FAU .08237 RRT -.7459 RRF -.7516 RTF .9927 CRT .1474 CRS -.1128 CST -.9994
 FDE 5.0274 FRA 6.9972 FC3-3.6306 BSP 17028 SGB 5489.0 R23 .0121 R13 -.9928 LSA 3988.9 MSA 181.5 SSA 12.4
 BDE 2.2444 BRA 2.8620 BC3 2.2553 FSP -3943 SGI 5477.5 SG2 354.9 THA 175.81 EL1 3160.5 EL2 168.2 ALF .46

LAUNCH DATE NOV 28 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 551.475

RL 147.57 LAL .00 LOL 65.83 VL 27.814 GAL 6.42 AZL 86.96 HCA 244.74 SMA 129.48 ECC .17829 INC 3.0433 V1 30.191
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.568 GAP 4.74 AZP 91.30 TAL 147.58 TAP 32.32 RCA 106.39 APO 152.56 V2 34.783
 RC 105.643 GL 18.93 GP 6.29 ZAL 41.14 ZAP 139.03 ETS 7.58 ZAE 129.96 ETE 173.84 ZAC 84.36 ETC 166.54 CLP-139.43

PLANETOCENTRIC CONIC

C3 20.459 VHL 4.523 CLA 28.54 RAL 19.02 RAD 6567.8 VEL 11.910 PTH 2.12 VHP 4.105 DPA -.84 RAP 350.71 ECC 1.3367
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.27 1 38 57 3642.63 -19.65 141.01 248.00 68.88 2 39 40 3042.6 -22.35 133.36
 93.73 2 41 12 3440.99 -19.64 126.25 247.99 68.87 3 38 33 2841.0 -22.34 118.60
 100.00 4 46 47 3036.71 -25.91 98.70 250.24 74.54 5 37 23 2436.7 -27.78 90.40
 100.00 2 16 4 3522.15 -13.62 129.42 245.20 63.13 3 14 46 2922.1 -17.12 122.37
 110.00 7 6 26 2599.52 -33.11 67.31 252.03 80.97 7 49 45 1999.5 -34.00 58.19
 110.00 2 12 54 3532.10 -7.25 126.40 241.43 56.50 3 11 46 2932.1 -11.61 120.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3667 TRA 3.0374 TC3-2.2349 BAU .6143 SGT 5679.7 SGR 499.5 SG3 995.3 ST 3273.8 SR 184.2 SS 2325.8
 RDE .1013 RRA -.3049 RC3 .2202 FAU .07389 RRT -.6851 RRF -.6902 RTF .9925 CRT .3502 CRS -.3172 CST -.9994
 FDE 4.6650 FRA 6.5713 FC3-3.1268 BSP 17837 SGB 5701.6 R23 .0102 R13 -.9925 LSA 4015.8 MSA 185.6 SSA 12.4
 BDE 2.3689 BRA 3.0527 BC3 2.2457 FSP -3625 SGI 5690.0 SG2 363.2 THA 176.54 EL1 3274.5 EL2 172.5 ALF 1.13

LAUNCH DATE NOV 28 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 557.515

RL 147.57 LAL .00 LOL 65.83 VL 27.802 GAL 6.64 AZL 86.92 HCA 247.90 SMA 129.39 ECC .18124 INC 3.0843 V1 30.191
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.559 GAP 5.16 AZP 91.16 TAL 147.01 TAP 34.91 RCA 105.94 APO 152.84 V2 34.783
 RC 108.045 GL 18.75 GP 5.85 ZAL 40.58 ZAP 141.90 ETS 7.81 ZAE 128.39 ETE 174.36 ZAC 84.77 ETC 166.49 CLP-142.28

PLANETOCENTRIC CONIC

C3 21.367 VHL 4.622 CLA 28.58 RAL 19.66 RAD 6567.9 VEL 11.948 PTH 2.13 VHP 4.306 DPA -1.13 RAP 351.17 ECC 1.3516
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.92 1 38 37 3662.34 -19.43 142.37 249.35 68.61 2 39 39 3062.3 -22.16 134.74
 94.08 2 46 36 3442.11 -19.41 126.24 249.34 68.60 3 43 58 2842.1 -22.15 118.61
 100.00 4 48 5 3051.13 -25.64 99.69 251.62 74.09 5 38 56 2451.1 -27.58 91.43
 100.00 2 19 49 3528.55 -13.43 129.79 246.54 63.04 3 18 38 2928.6 -16.94 122.76
 110.00 7 8 24 2611.84 -32.97 68.25 253.52 80.43 7 51 56 2011.8 -33.94 59.15
 110.00 2 15 59 3540.61 -6.93 126.85 242.69 56.44 3 15 0 2940.6 -11.30 120.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4839 TRA 3.2332 TC3-2.2110 BAU .6342 SGT 5872.5 SGR 472.4 SG3 910.8 ST 3370.1 SR 202.9 SS 2221.9
 RDE .1314 RRA -.2855 RC3 .2002 FAU .06608 RRT -.6185 RRF -.6227 RTF .9922 CRT .4909 CRS -.4599 CST -.9994
 FDE 4.3302 FRA 6.1835 FC3-2.6773 BSP 18578 SGB 5891.5 R23 .0084 R13 -.9922 LSA 4037.3 MSA 189.5 SSA 12.5
 BDE 2.4874 BRA 3.2458 BC3 2.2200 FSP -3332 SGI 5879.8 SG2 370.8 THA 177.14 EL1 3371.6 EL2 176.7 ALF 1.70

LAUNCH DATE NOV 28 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 563.525

RL 147.57 LAL .00 LOL 65.83 VL 27.788 GAL 6.88 AZL 86.88 MCA 251.06 SMA 129.30 ECC .18448 INC 3.1234 V1 30.191
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.550 GAP 5.59 AZP 91.01 TAL 146.41 TAP 37.46 RCA 105.44 APO 153.15 V2 34.784
 RC 110.446 GL 18.53 GP 5.45 ZAL 39.99 ZAP 144.57 ETS 8.04 ZAE 126.98 ETE 174.78 ZAC 85.35 ETC 166.45 CLP-144.94

PLANETOCENTRIC CONIC

C3 22.375 VHL 4.730 CLA 28.60 RAL 20.33 RAD 6567.9 VEL 11.990 PTH 2.14 VHP 4.519 DPA -1.29 RAP 351.79 ECC 1.3682
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.82 1 40 27 3676.25 -19.16 143.27 250.77 68.35 2 41 43 3076.2 -21.93 135.68
 94.18 2 50 9 3450.49 -19.14 126.74 250.76 68.34 3 47 39 2850.5 -21.92 119.14
 100.00 4 50 23 3063.55 -25.41 100.54 253.09 73.70 5 41 26 2463.5 -27.40 92.31
 100.00 2 22 54 3538.42 -13.12 130.36 247.93 62.90 3 21 52 2938.4 -16.65 123.35
 110.00 7 10 55 2623.59 -32.84 69.14 255.08 79.92 7 54 39 2023.6 -33.88 60.06
 110.00 2 18 51 3551.15 -6.53 127.41 244.01 56.37 3 18 2 2951.1 -10.91 121.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.5985 TRA 3.4352 TC3-2.1669 BAU .6505 SGT 6047.3 SGR 451.6 SG3 834.5 ST 3454.3 SR 223.3 SS 2125.9
 RDE .1599 RRA -.2681 RC3 .1818 FAU .05859 RRT -.5477 RRF -.5509 RTF .9918 CRT .5855 CRS -.5566 CST -.9994
 FDE 4.0284 FRA 5.8380 FC3-2.2669 BSP 19180 SGB 6064.1 R23 .0066 R13 -.9918 LSA 4057.6 MSA 193.1 SSA 12.6
 BDE 2.6034 BRA 3.4457 BC3 2.1745 FSP -3048 SG1 6052.3 SG2 377.5 THA 177.65 EL1 3456.8 EL2 180.9 ALF 2.17

LAUNCH DATE NOV 28 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 569.503

RL 147.57 LAL .00 LOL 65.83 VL 27.774 GAL 7.14 AZL 86.84 MCA 254.22 SMA 129.20 ECC .18803 INC 3.1611 V1 30.191
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.541 GAP 6.03 AZP 90.86 TAL 145.78 TAP 40.00 RCA 104.90 APO 153.49 V2 34.786
 RC 112.844 GL 18.27 GP 5.10 ZAL 39.37 ZAP 147.06 ETS 8.29 ZAE 125.72 ETE 175.13 ZAC 86.10 ETC 166.41 CLP-147.41

PLANETOCENTRIC CONIC

C3 23.495 VHL 4.847 CLA 28.58 RAL 21.04 RAD 6568.0 VEL 12.036 PTH 2.15 VHP 4.743 DPA -1.34 RAP 352.55 ECC 1.3867
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.93 1 44 8 3685.36 -18.85 143.81 252.27 68.10 2 45 33 3085.4 -21.65 136.24
 94.07 2 52 7 3465.16 -18.83 127.68 252.27 68.09 3 49 52 2865.2 -21.64 120.12
 100.00 4 53 37 3074.12 -25.20 101.26 254.67 73.37 5 44 51 2474.1 -27.24 93.05
 100.00 2 25 19 3551.63 -12.71 131.13 249.35 62.71 3 24 31 2951.6 -16.27 124.14
 110.00 7 13 56 2634.85 -32.70 69.99 256.74 79.44 7 57 51 2034.9 -33.81 60.93
 110.00 2 21 30 3563.66 -6.06 128.07 245.39 56.29 3 20 53 2963.7 -10.45 121.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.7063 TRA 3.6393 TC3-2.1143 BAU .6661 SGT 6199.6 SGR 435.8 SG3 764.5 ST 3521.0 SR 243.9 SS 2032.4
 RDE .1875 RRA -.2521 RC3 .1652 FAU .05204 RRT -.4743 RRF -.4765 RTF .9914 CRT .6510 CRS -.6237 CST -.9993
 FDE 3.7473 FRA 5.5204 FC3-1.9177 BSP 19784 SGB 6214.9 R23 .0050 R13 -.9914 LSA 4068.0 MSA 196.6 SSA 12.7
 BDE 2.7128 BRA 3.6480 BC3 2.1207 FSP -2801 SG1 6203.0 SG2 383.4 THA 178.08 EL1 3524.6 EL2 185.0 ALF 2.59

LAUNCH DATE NOV 28 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 575.447

RL 147.57 LAL .00 LOL 65.83 VL 27.759 GAL 7.42 AZL 86.80 MCA 257.38 SMA 129.09 ECC .19190 INC 3.1976 V1 30.191
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.532 GAP 6.48 AZP 90.70 TAL 145.13 TAP 42.51 RCA 104.32 APO 153.86 V2 34.789
 RC 115.239 GL 17.98 GP 4.79 ZAL 38.72 ZAP 149.39 ETS 8.56 ZAE 124.59 ETE 175.44 ZAC 86.99 ETC 166.38 CLP-149.74

PLANETOCENTRIC CONIC

C3 24.740 VHL 4.974 CLA 28.54 RAL 21.78 RAD 6568.0 VEL 12.088 PTH 2.16 VHP 4.980 DPA -1.29 RAP 353.45 ECC 1.4072
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.25 1 49 46 3689.35 -18.50 143.95 253.85 67.87 2 51 16 3089.3 -21.34 136.42
 93.75 2 52 24 3486.49 -18.49 129.10 253.84 67.86 3 50 30 2886.5 -21.33 121.56
 100.00 4 57 42 3083.06 -25.03 101.87 256.34 73.10 5 49 5 2483.1 -27.10 93.68
 100.00 2 27 9 3568.00 -12.20 132.07 250.83 62.50 3 26 37 2968.0 -15.78 125.12
 110.00 7 17 24 2645.74 -32.56 70.81 258.47 78.97 8 1 30 2045.7 -33.74 61.77
 110.00 2 23 56 3578.09 -5.52 128.83 246.82 56.21 3 23 34 2978.1 -9.92 122.51

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.8107 TRA 3.8505 TC3-2.0495 BAU .6797 SGT 6335.1 SGR 423.9 SG3 701.3 ST 3575.1 SR 263.8 SS 1944.3
 RDE .2142 RRA -.2370 RC3 .1499 FAU .04606 RRT -.4001 RRF -.4012 RTF .9910 CRT .6970 CRS -.6712 CST -.9993
 FDE 3.4915 FRA 5.2352 FC3-1.6118 BSP 20329 SGB 6349.3 R23 .0035 R13 -.9910 LSA 4073.2 MSA 199.9 SSA 12.7
 BDE 2.8189 BRA 3.8577 BC3 2.0550 FSP -2575 SG1 6337.4 SG2 388.4 THA 178.46 EL1 3579.8 EL2 188.9 ALF 2.95

LAUNCH DATE NOV 28 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 581.354

RL 147.57 LAL .00 LOL 65.83 VL 27.744 GAL 7.72 AZL 86.77 MCA 260.54 SMA 128.98 ECC .19611 INC 3.2333 V1 30.191
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.523 GAP 6.94 AZP 90.53 TAL 144.46 TAP 45.00 RCA 103.69 APO 154.28 V2 34.792
 RC 117.630 GL 17.66 GP 4.50 ZAL 38.04 ZAP 151.59 ETS 8.85 ZAE 123.58 ETE 175.69 ZAC 88.01 ETC 166.36 CLP-151.92

PLANETOCENTRIC CONIC

C3 26.125 VHL 5.111 CLA 28.48 RAL 22.55 RAD 6568.1 VEL 12.145 PTH 2.18 VHP 5.229 DPA -1.16 RAP 354.46 ECC 1.4300
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.83 1 57 41 3687.10 -18.11 143.62 255.49 67.64 2 59 8 3087.1 -20.99 136.12
 93.17 2 50 36 3515.63 -18.10 131.07 255.48 67.63 3 49 12 2915.6 -20.98 123.56
 100.00 5 2 33 3090.64 -24.88 102.38 258.10 72.87 5 54 4 2490.6 -26.99 94.21
 100.00 2 28 25 3587.32 -11.59 133.18 252.33 62.25 3 28 12 2987.3 -15.21 126.27
 110.00 7 21 17 2656.35 -32.42 71.60 260.29 78.52 8 5 34 2056.4 -33.66 62.59
 110.00 2 26 10 3594.37 -4.90 129.69 248.31 56.13 3 26 5 2994.4 -9.31 123.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.9132 TRA 4.0698 TC3-1.9743 BAU .6912 SGT 6455.6 SGR 415.1 SG3 644.0 ST 3618.3 SR 282.5 SS 1861.8
 RDE .2402 RRA -.2227 RC3 .1356 FAU .04060 RRT -.3262 RRF -.3263 RTF .9905 CRT .7304 CRS -.7058 CST -.9993
 FDE 3.2597 FRA 4.9790 FC3-1.3454 BSP 20818 SGB 6468.9 R23 .0021 R13 -.9905 LSA 4073.9 MSA 202.9 SSA 12.8
 BDE 2.9231 BRA 4.0758 BC3 1.9790 FSP -2369 SG1 6457.0 SG2 392.4 THA 178.79 EL1 3624.2 EL2 192.6 ALF 3.27

LAUNCH DATE NOV 28 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 587.221

RL 147.57 LAL .00 LOL 65.83 VL 27.727 GAL 8.05 AZL 86.73 MCA 263.71 SMA 128.87 ECC .20070 INC 3.2683 V1 30.191
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.515 GAP 7.42 AZP 90.36 TAL 143.78 TAP 47.48 RCA 103.01 APO 154.73 V2 34.796
 RC 120.015 GL 17.31 GP 4.25 ZAL 37.34 ZAP 153.65 ETS 9.17 ZAE 122.66 ETE 175.92 ZAC 89.14 ETC 166.34 CLP-153.97

PLANETOCENTRIC CONIC

C3 27.668 VHL 5.260 DLA 28.39 RAL 23.34 RAD 6568.1 VEL 12.208 PTH 2.19 VHP 5.491 DPA -.94 RAP 355.57 ECC 1.4554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.87 2 9 31 3673.23 -17.69 142.42 257.20 67.43 3 10 44 3073.2 -20.60 134.95
 92.13 2 45 4 3558.00 -17.68 133.99 257.19 67.42 3 44 22 2958.0 -20.58 126.51
 100.00 5 8 5 3097.11 -24.75 102.82 259.94 72.68 5 59 42 2497.1 -26.88 94.67
 100.00 2 29 12 3609.36 -10.88 134.44 253.88 61.99 3 29 21 3009.4 -14.55 127.57
 110.00 7 25 33 2666.76 -32.28 72.38 262.18 78.08 8 10 0 2066.8 -33.58 63.39
 110.00 2 28 13 3612.46 -4.21 130.64 249.84 56.05 3 28 25 3012.5 -8.64 124.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 3.0141 TRA 4.2993 TC3-1.8895 BAU .7004 SGT 6562.5 SGR 408.7 SG3 592.3 ST 3651.4 SR 299.7 SS 1784.7
 RDE .2658 RRA -.2086 RC3 .1222 FAU .03559 RRT -.2536 RRF -.2527 RTF .9901 CRT .7552 CRS -.7317 CST -.9993
 FDE 3.0499 FRA 4.7498 FC3-1.1136 BSP 21261 SGB 6575.3 R23 .0007 R13 -.9901 LSA 4070.0 MSA 205.6 SSA 12.8
 BDE 3.0258 BRA 4.3043 BC3 1.8935 FSP -2181 SGI 6563.4 SG2 395.3 THA 179.09 EL1 3658.4 EL2 196.1 ALF 3.56

LAUNCH DATE NOV 28 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 593.044

RL 147.57 LAL .00 LOL 65.83 VL 27.711 GAL 8.41 AZL 86.70 MCA 266.87 SMA 128.75 ECC .20568 INC 3.3028 V1 30.191
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.507 GAP 7.92 AZP 90.18 TAL 143.07 TAP 49.94 RCA 102.27 APO 155.24 V2 34.800
 RC 122.394 GL 16.94 GP 4.02 ZAL 36.63 ZAP 155.61 ETS 9.53 ZAE 121.83 ETE 176.12 ZAC 90.37 ETC 166.32 CLP-155.92

PLANETOCENTRIC CONIC

C3 29.390 VHL 5.421 DLA 28.28 RAL 24.15 RAD 6568.2 VEL 12.279 PTH 2.21 VHP 5.767 DPA -.66 RAP 356.77 ECC 1.4837
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 43 23 3589.01 -18.32 136.53 259.44 68.03 3 43 12 2989.0 -21.15 129.00
 90.00 2 17 40 3672.38 -16.12 141.66 258.48 66.40 3 18 52 3072.4 -19.18 134.32
 100.00 5 14 10 3102.74 -24.63 103.19 261.87 72.51 6 5 53 2502.7 -26.79 95.06
 100.00 2 29 33 3633.88 -10.10 135.84 255.47 61.72 3 30 7 3033.9 -13.80 129.00
 110.00 7 30 10 2677.07 -32.13 73.15 264.14 77.65 8 14 47 2077.1 -33.50 64.19
 110.00 2 30 3 3632.32 -3.46 131.68 251.43 55.97 3 30 35 3032.3 -7.90 125.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 3.1174 TRA 4.5433 TC3-1.7933 BAU .7059 SGT 6660.6 SGR 404.0 SG3 545.9 ST 3678.8 SR 315.4 SS 1714.4
 RDE .2909 RRA -.1946 RC3 .1096 FAU .03086 RRT -.1826 RRF -.1808 RTF .9896 CRT .7742 CRS -.7516 CST -.9994
 FDE 2.8632 FRA 4.5479 FC3 -.9090 BSP 21585 SGB 6672.9 R23 -.0006 R13 -.9896 LSA 4065.6 MSA 208.0 SSA 12.8
 BDE 3.1309 BRA 4.5475 BC3 1.7966 FSP -2002 SGI 6661.0 SG2 397.2 THA 179.36 EL1 3686.9 EL2 199.2 ALF 3.81

LAUNCH DATE NOV 28 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 598.819

RL 147.57 LAL .00 LOL 65.83 VL 27.693 GAL 8.80 AZL 86.66 MCA 270.03 SMA 128.64 ECC .21110 INC 3.3372 V1 30.191
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.499 GAP 8.43 AZP 90.00 TAL 142.36 TAP 52.39 RCA 101.48 APO 155.79 V2 34.805
 RC 124.766 GL 16.54 GP 3.82 ZAL 35.90 ZAP 157.46 ETS 9.94 ZAE 121.08 ETE 176.30 ZAC 91.69 ETC 166.31 CLP-157.77

PLANETOCENTRIC CONIC

C3 31.315 VHL 5.596 DLA 28.15 RAL 24.97 RAD 6568.2 VEL 12.357 PTH 2.23 VHP 6.058 DPA -.31 RAP 358.05 ECC 1.5154
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 1 4 3558.11 -19.10 134.60 261.82 68.69 4 0 23 2958.1 -21.83 126.99
 90.00 2 6 32 3735.10 -14.38 145.44 259.73 65.34 3 8 47 3135.1 -17.59 138.24
 100.00 5 20 45 3107.78 -24.53 103.53 263.88 72.36 6 12 33 2507.8 -26.71 95.41
 100.00 2 29 32 3660.67 -9.23 137.35 257.09 61.44 3 30 33 3060.7 -12.97 130.56
 110.00 7 35 5 2687.33 -31.98 73.91 266.18 77.22 8 19 52 2087.3 -33.40 64.97
 110.00 2 31 42 3653.88 -2.63 132.81 253.06 55.91 3 32 36 3053.9 -7.09 126.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 3.2171 TRA 4.7969 TC3-1.6949 BAU .7108 SGT 6743.4 SGR 400.6 SG3 503.4 ST 3693.9 SR 329.6 SS 1646.7
 RDE .3160 RRA -.1803 RC3 .0979 FAU .02671 RRT -.1141 RRF -.1114 RTF .9892 CRT .7890 CRS -.7673 CST -.9994
 FDE 2.6903 FRA 4.3636 FC3 -.7385 BSP 21955 SGB 6755.3 R23 -.0018 R13 -.9892 LSA 4052.3 MSA 210.1 SSA 12.7
 BDE 3.2325 BRA 4.8002 BC3 1.6977 FSP -1847 SGI 6743.5 SG2 398.0 THA 179.61 EL1 3703.1 EL2 202.0 ALF 4.04

LAUNCH DATE NOV 28 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 604.540

RL 147.57 LAL .00 LOL 65.83 VL 27.676 GAL 9.22 AZL 86.63 MCA 273.20 SMA 128.51 ECC .21700 INC 3.3716 V1 30.191
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.491 GAP 8.96 AZP 89.81 TAL 141.64 TAP 54.84 RCA 100.63 APO 156.40 V2 34.811
 RC 127.128 GL 16.12 GP 3.63 ZAL 35.16 ZAP 159.23 ETS 10.41 ZAE 120.39 ETE 176.47 ZAC 93.08 ETC 166.29 CLP-159.54

PLANETOCENTRIC CONIC

C3 33.471 VHL 5.785 DLA 27.99 RAL 25.80 RAD 6568.3 VEL 12.444 PTH 2.25 VHP 6.365 DPA .09 RAP 359.39 ECC 1.5509
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 14 42 3541.32 -19.51 133.54 264.10 69.06 4 13 43 2941.3 -22.19 125.89
 90.00 1 59 33 3785.43 -12.93 148.43 261.17 64.59 3 2 38 3185.4 -16.25 141.32
 100.00 5 27 44 3112.45 -24.43 103.85 265.97 72.22 6 19 36 2512.4 -26.63 95.74
 100.00 2 29 12 3689.53 -8.29 138.98 258.75 61.18 3 30 42 3089.5 -12.07 132.23
 110.00 7 40 16 2697.63 -31.82 74.67 268.29 76.80 8 25 14 2097.6 -33.31 65.76
 110.00 2 33 9 3677.12 -1.75 134.02 254.74 55.86 3 34 26 3077.1 -6.22 127.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 3.3178 TRA 5.0647 TC3-1.5911 BAU .7131 SGT 6815.6 SGR 398.2 SG3 464.8 ST 3701.8 SR 342.2 SS 1583.8
 RDE .3410 RRA -.1654 RC3 .0870 FAU .02291 RRT -.0478 RRF -.0445 RTF .9888 CRT .8008 CRS -.7799 CST -.9994
 FDE 2.5340 FRA 4.1990 FC3 -.5926 BSP 22283 SGB 6827.3 R23 -.0029 R13 -.9888 LSA 4035.3 MSA 211.9 SSA 12.6
 BDE 3.3352 BRA 5.0674 BC3 1.5935 FSP -1707 SGI 6815.7 SG2 397.8 THA 179.84 EL1 3711.9 EL2 204.4 ALF 4.25

LAUNCH DATE NOV 29 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 7 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 15.325 GAL 31.92 AZL 87.51 MCA 33.45 SMA 84.85 ECC .82030 INC 2.4947 V1 30.196
 RP 107.58 LAP 1.37 LOP 100.27 VP 30.053 GAP -53.59 AZP 87.92 TAL 171.79 TAP 205.24 RCA 15.25 APO 154.45 V2 35.225
 RC 90.872 GL 1.69 GP -.61 ZAL 64.00 ZAP 35.86 ETS 177.44 ZAE 131.31 ETE 185.30 ZAC 52.38 ETC 159.71 CLP 35.85

DISTANCE 127.258

PLANETOCENTRIC CONIC
 C3 366.575 VHL 19.146 CLA 2.69 RAL 1.94 RAD 6572.0 VEL 22.088 PTH 3.24 VHP 29.689 DPA -19.40 RAP 319.68 ECC 7.0329
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 37 5 2894.48 -28.31 88.73 268.31 89.35 7 25 19 2294.5 -28.10 80.07
 90.00 19 15 2 5371.68 27.83 245.52 265.45 84.57 20 44 33 4771.7 26.79 237.00
 100.00 7 59 40 2628.06 -29.89 69.16 268.33 89.47 8 43 29 2028.1 -29.64 60.36
 100.00 20 35 7 5113.33 29.41 226.34 265.28 84.37 22 0 20 4513.3 28.31 217.71
 110.00 9 10 48 2405.46 -34.18 52.29 268.36 89.78 9 50 53 1805.5 -33.83 43.06
 110.00 21 40 29 4908.70 33.68 210.29 264.75 83.76 23 2 18 4308.7 32.45 201.27

MID-COURSE EXECUTION ACCURACY
 SGT 828.5 SGR 456.8 SG3 23.4
 RRT -.0392 RRF .0348 RTF -.6203
 SGB 946.1 R23 .0001 R13 .6204
 SG1 828.8 SG2 456.3 THA 178.22

ORBIT DETERMINATION ACCURACY
 ST 341.5 SR 408.7 SS 341.5
 CRT .7141 CRS .7722 CST .9945
 LSA 591.7 MSA 223.4 SSA 14.0
 EL1 494.6 EL2 197.6 ALF 52.10

DIFFERENTIAL CORRECTIONS
 TOE -.9288 TRA-2.2034 TC3 -.1087 BAU .5343
 ROE-1.3491 RRA .7062 RC3 -.0079 FAU .01091
 FDE .3832 FRA .7515 FC3 -.0258 BSP 2002
 BOE 1.6380 BRA 2.3138 BC3 .1090 FSP -48

LAUNCH DATE NOV 29 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 9 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 16.131 GAL 30.36 AZL 87.41 MCA 36.69 SMA 86.25 ECC .79468 INC 2.5915 V1 30.196
 RP 107.56 LAP 1.55 LOP 103.51 VP 30.479 GAP -51.21 AZP 87.92 TAL 170.87 TAP 207.56 RCA 17.71 APO 154.79 V2 35.232
 RC 88.659 GL 1.96 GP -.63 ZAL 62.62 ZAP 34.32 ETS 177.45 ZAE 131.17 ETE 185.67 ZAC 54.00 ETC 160.21 CLP 34.32

DISTANCE 132.609

PLANETOCENTRIC CONIC
 C3 337.031 VHL 18.358 CLA 3.49 RAL 3.11 RAD 6571.9 VEL 21.409 PTH 3.21 VHP 28.632 DPA -18.93 RAP 321.41 ECC 6.5467
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 35 46 2910.35 -28.29 89.89 269.21 88.77 7 24 16 2310.3 -28.16 81.23
 90.00 19 25 38 5337.84 27.59 243.07 265.52 83.37 20 54 36 4737.8 26.39 234.61
 100.00 7 58 44 2642.72 -29.87 70.25 269.25 88.89 8 42 47 2042.7 -29.71 61.45
 100.00 20 45 21 5080.70 29.16 223.95 265.31 83.13 22 10 1 4480.7 27.91 215.37
 110.00 9 10 44 2417.41 -34.18 53.23 269.33 89.23 9 51 1 1817.4 -33.90 43.99
 110.00 21 49 51 4878.77 33.43 207.99 264.68 82.42 23 11 10 4278.8 32.02 199.04

MID-COURSE EXECUTION ACCURACY
 SGT 867.1 SGR 462.7 SG3 25.3
 RRT -.0396 RRF .0354 RTF -.6390
 SGB 982.8 R23 .0000 R13 .6391
 SG1 867.3 SG2 462.2 THA 178.31

ORBIT DETERMINATION ACCURACY
 ST 359.2 SR 413.6 SS 357.5
 CRT .7125 CRS .7731 CST .9943
 LSA 612.3 MSA 229.6 SSA 14.3
 EL1 507.9 EL2 205.2 ALF 50.62

DIFFERENTIAL CORRECTIONS
 TOE -.9354 TRA-2.2263 TC3 -.1162 BAU .5252
 ROE-1.3091 RRA .6862 RC3 -.0091 FAU .01092
 FDE .3993 FRA .7793 FC3 -.0281 BSP 2132
 BOE 1.6089 BRA 2.3296 BC3 .1166 FSP -52

LAUNCH DATE NOV 29 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 11 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 16.890 GAL 28.92 AZL 87.33 MCA 39.93 SMA 87.68 ECC .76885 INC 2.6745 V1 30.196
 RP 107.54 LAP 1.72 LOP 106.75 VP 30.894 GAP -48.97 AZP 87.95 TAL 169.94 TAP 209.88 RCA 20.27 APO 155.09 V2 35.238
 RC 86.453 GL 2.25 GP -.65 ZAL 61.29 ZAP 32.81 ETS 177.47 ZAE 131.09 ETE 186.06 ZAC 55.65 ETC 160.69 CLP 32.80

DISTANCE 138.090

PLANETOCENTRIC CONIC
 C3 310.039 VHL 17.608 CLA 4.28 RAL 4.23 RAD 6571.8 VEL 20.769 PTH 3.18 VHP 27.611 DPA -18.45 RAP 323.17 ECC 6.1025
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 19 2925.49 -28.27 91.00 270.01 88.22 7 23 4 2325.5 -28.21 82.33
 90.00 19 36 0 5303.74 27.30 240.62 265.53 82.17 21 4 24 4703.7 25.94 232.21
 100.00 7 57 40 2656.65 -29.85 71.28 270.07 88.35 8 41 56 2056.7 -29.76 62.48
 100.00 20 55 21 5047.81 28.87 221.55 265.28 81.90 22 19 28 4447.8 27.45 213.03
 110.00 9 10 31 2428.66 -34.16 54.10 270.20 88.71 9 50 59 1828.7 -33.96 44.86
 110.00 21 58 59 4848.57 33.14 205.68 264.53 81.08 23 19 48 4248.6 31.55 196.81

MID-COURSE EXECUTION ACCURACY
 SGT 907.2 SGR 467.9 SG3 27.2
 RRT -.0399 RRF .0358 RTF -.6572
 SGB 1020.8 R23 -.0001 R13 .6573
 SG1 907.5 SG2 467.4 THA 178.40

ORBIT DETERMINATION ACCURACY
 ST 377.6 SR 418.0 SS 373.8
 CRT .7110 CRS .7740 CST .9941
 LSA 633.6 MSA 235.4 SSA 14.5
 EL1 521.6 EL2 212.8 ALF 49.07

DIFFERENTIAL CORRECTIONS
 TOE -.9420 TRA-2.2493 TC3 -.1239 BAU .5153
 ROE-1.2688 RRA .6654 RC3 -.0103 FAU .01095
 FDE .4157 FRA .8075 FC3 -.0306 BSP 2266
 BOE 1.5803 BRA 2.3457 BC3 .1243 FSP -58

LAUNCH DATE NOV 29 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 17.604 GAL 27.59 AZL 87.25 MCA 43.18 SMA 89.13 ECC .74297 INC 2.7470 V1 30.196
 RP 107.53 LAP 1.88 LOP 109.99 VP 31.296 GAP -46.84 AZP 88.00 TAL 169.03 TAP 212.20 RCA 22.91 APO 155.35 V2 35.243
 RC 84.254 GL 2.54 GP -.66 ZAL 60.01 ZAP 31.32 ETS 177.47 ZAE 131.09 ETE 186.46 ZAC 57.33 ETC 161.14 CLP 31.32

DISTANCE 143.695

PLANETOCENTRIC CONIC
 C3 285.343 VHL 16.892 CLA 5.06 RAL 5.30 RAD 6571.7 VEL 20.166 PTH 3.15 VHP 26.623 DPA -17.94 RAP 324.94 ECC 5.6960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 43 2939.92 -28.23 92.05 270.73 87.69 7 21 43 2339.9 -28.25 83.39
 90.00 19 46 9 5269.34 26.96 238.16 265.47 80.99 21 13 59 4669.3 25.43 229.82
 100.00 7 56 26 2669.87 -29.82 72.26 270.80 87.83 8 40 56 2069.9 -29.80 63.46
 100.00 21 5 7 5014.62 28.53 219.14 265.18 80.67 22 28 42 4414.6 26.95 210.70
 110.00 9 10 8 2439.20 -34.14 54.93 270.97 88.23 9 50 48 1839.2 -34.01 45.68
 110.00 22 7 54 4818.05 32.79 203.37 264.33 79.75 23 28 12 4218.1 31.03 194.59

MID-COURSE EXECUTION ACCURACY
 SGT 949.0 SGR 472.5 SG3 29.3
 RRT -.0400 RRF .0361 RTF -.6747
 SGB 1060.1 R23 -.0003 R13 .6748
 SG1 949.2 SG2 472.0 THA 178.49

ORBIT DETERMINATION ACCURACY
 ST 397.0 SR 421.8 SS 390.5
 CRT .7096 CRS .7748 CST .9938
 LSA 655.6 MSA 241.0 SSA 14.7
 EL1 535.8 EL2 220.3 ALF 47.44

DIFFERENTIAL CORRECTIONS
 TOE -.9488 TRA-2.2723 TC3 -.1318 BAU .5048
 ROE-1.2285 RRA .6439 RC3 -.0117 FAU .01098
 FDE .4324 FRA .8362 FC3 -.0333 BSP 2409
 BOE 1.5522 BRA 2.3618 BC3 .1323 FSP -63

LAUNCH DATE NOV 29 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

DISTANCE 149.414

RL 147.55 LAL .00 LOL 66.85 VL 18.276 GAL 26.35 AZL 87.19 MCA 46.42 SMA 90.59 ECC .71719 INC 2.8114 VI 30.196
 RP 107.51 LAP 2.04 LOP 113.23 VP 31.684 GAP -44.82 AZP 88.06 TAL 168.11 TAP 214.54 RCA 25.62 APO 155.57 V2 35.247
 RC 82.065 GL 2.84 GP -.68 ZAL 58.78 ZAP 29.86 ETS 177.47 ZAE 131.15 ETE 186.89 ZAC 59.04 ETC 161.58 CLP 29.85

PLANETOCENTRIC CONIC

C3 262.721 VHL 16.209 DLA 5.83 RAL 6.32 RAD 6571.5 VEL 19.597 PTH 3.12 VHP 25.667 DPA -17.41 RAP 326.72 ECC 5.3237
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 30 57 2953.66 -28.19 93.06 271.34 87.19 7 20 10 2353.7 -28.28 84.39
 90.00 19 56 5 5234.58 26.56 235.69 265.34 79.81 21 23 20 4634.6 24.89 227.42
 100.00 7 55 3 2682.40 -29.79 73.19 271.43 87.34 8 39 45 2082.4 -29.84 64.39
 100.00 21 14 40 4981.08 28.14 216.72 265.02 79.46 22 37 41 4381.1 26.39 208.36
 110.00 9 9 37 2449.04 -34.12 55.69 271.65 87.77 9 50 26 1849.0 -34.05 46.45
 110.00 22 16 36 4787.20 32.39 201.05 264.06 78.43 23 36 23 4187.2 30.46 192.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9554 TRA-2.2951 TC3 -.1399 BAU .4935 SGT 992.3 SGR 476.5 SG3 31.6 ST 417.2 SR 425.1 SS 407.5
 RDE -1.1880 RRA .6219 RC3 -.0133 FAU .01104 RRT -.0399 RRF .0362 RTF -.6916 CRT .7082 CRS .7757 CST .9936
 FDE .4494 FRA .8654 FC3 -.0364 BSP 2563 SGB 1100.8 R23 -.0004 R13 .6917 LSA 678.2 MSA 246.2 SSA 14.9
 BDE 1.5245 BRA 2.3779 BC3 .1405 FSP -69 SG1 992.6 SG2 476.0 THA 178.57 EL1 550.5 EL2 227.5 ALF 45.76

LAUNCH DATE NOV 29 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

DISTANCE 155.243

RL 147.55 LAL .00 LOL 66.85 VL 18.909 GAL 25.19 AZL 87.13 MCA 49.67 SMA 92.07 ECC .69163 INC 2.8691 VI 30.196
 RP 107.50 LAP 2.19 LOP 116.48 VP 32.058 GAP -42.89 AZP 88.14 TAL 167.21 TAP 216.88 RCA 28.39 APO 155.75 V2 35.251
 RC 79.887 GL 3.16 GP -.70 ZAL 57.59 ZAP 28.41 ETS 177.46 ZAE 131.29 ETE 187.34 ZAC 60.76 ETC 161.99 CLP 28.40

PLANETOCENTRIC CONIC

C3 241.978 VHL 15.556 DLA 6.59 RAL 7.30 RAD 6571.4 VEL 19.060 PTH 3.08 VHP 24.740 DPA -16.86 RAP 328.52 ECC 4.9823
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 1 2966.73 -28.14 94.01 271.87 86.71 7 18 28 2366.7 -28.30 85.35
 90.00 20 5 49 5199.43 26.12 233.21 265.16 78.65 21 32 29 4599.4 24.29 225.02
 100.00 7 53 30 2694.24 -29.74 74.07 271.97 86.88 8 38 24 2094.2 -29.86 65.27
 100.00 21 24 2 4947.15 27.69 214.30 264.80 78.26 22 46 29 4347.1 25.79 206.02
 110.00 9 8 55 2458.20 -34.09 56.41 272.23 87.35 9 49 54 1858.2 -34.08 47.16
 110.00 22 25 5 4755.96 31.94 198.72 263.73 77.13 23 44 21 4156.0 29.84 190.14

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9650 TRA-2.3205 TC3 -.1486 BAU .4832 SGT 1039.4 SGR 479.8 SG3 34.0 ST 439.5 SR 427.9 SS 425.1
 RDE -1.1474 RRA .5995 RC3 -.0150 FAU .01109 RRT -.0390 RRF .0360 RTF -.7078 CRT .7074 CRS .7767 CST .9934
 FDE .4673 FRA .8954 FC3 -.0397 BSP 2650 SGB 1144.8 R23 -.0009 R13 .7079 LSA 702.6 MSA 251.1 SSA 15.1
 BDE 1.4993 BRA 2.3967 BC3 .1494 FSP -75 SG1 1039.6 SG2 479.3 THA 178.69 EL1 566.8 EL2 234.5 ALF 43.91

LAUNCH DATE NOV 29 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 161.173

RL 147.55 LAL .00 LOL 66.85 VL 19.505 GAL 24.09 AZL 87.08 MCA 52.92 SMA 93.56 ECC .66640 INC 2.9215 VI 30.196
 RP 107.49 LAP 2.33 LOP 119.73 VP 32.416 GAP -41.06 AZP 88.24 TAL 166.32 TAP 219.24 RCA 31.21 APO 155.91 V2 35.254
 RC 77.721 GL 3.48 GP -.72 ZAL 56.46 ZAP 26.98 ETS 177.43 ZAE 131.50 ETE 187.81 ZAC 62.51 ETC 162.38 CLP 26.98

PLANETOCENTRIC CONIC

C3 222.942 VHL 14.931 DLA 7.34 RAL 8.23 RAD 6571.3 VEL 18.554 PTH 3.05 VHP 23.842 DPA -16.30 RAP 330.32 ECC 4.6691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 34 2979.15 -28.09 94.91 272.30 86.26 7 16 34 2379.1 -28.31 86.26
 90.00 20 15 22 5163.84 25.61 230.73 264.92 77.50 21 41 26 4563.8 23.64 222.61
 100.00 7 51 46 2705.43 -29.70 74.90 272.41 86.45 8 36 52 2105.4 -29.88 66.10
 100.00 21 33 11 4912.79 27.19 211.87 264.52 77.07 22 55 4 4312.8 25.14 203.67
 110.00 9 8 4 2466.68 -34.06 57.07 272.71 86.96 9 49 11 1866.7 -34.11 47.82
 110.00 22 33 23 4724.30 31.44 196.39 263.35 75.83 23 52 7 4124.3 29.17 187.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9762 TRA-2.3467 TC3 -.1578 BAU .4731 SGT 1089.4 SGR 482.4 SG3 36.7 ST 463.4 SR 430.0 SS 443.4
 RDE -1.1068 RRA .5766 RC3 -.0168 FAU .01115 RRT -.0376 RRF .0356 RTF -.7233 CRT .7072 CRS .7778 CST .9933
 FDE .4859 FRA .9263 FC3 -.0433 BSP 2708 SGB 1191.5 R23 -.0018 R13 .7234 LSA 728.5 MSA 255.5 SSA 15.3
 BDE 1.4758 BRA 2.4165 BC3 .1587 FSP -81 SG1 1089.6 SG2 482.0 THA 178.81 EL1 584.4 EL2 241.1 ALF 41.98

LAUNCH DATE NOV 29 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 167.200

RL 147.55 LAL .00 LOL 66.85 VL 20.065 GAL 23.05 AZL 87.03 MCA 56.16 SMA 95.05 ECC .64159 INC 2.9697 VI 30.196
 RP 107.48 LAP 2.47 LOP 122.97 VP 32.759 GAP -39.31 AZP 88.35 TAL 165.44 TAP 221.61 RCA 34.07 APO 156.03 V2 35.256
 RC 75.571 GL 3.83 GP -.75 ZAL 55.37 ZAP 25.58 ETS 177.39 ZAE 131.79 ETE 188.31 ZAC 64.28 ETC 162.76 CLP 25.57

PLANETOCENTRIC CONIC

C3 205.471 VHL 14.334 DLA 8.09 RAL 9.12 RAD 6571.2 VEL 18.077 PTH 3.01 VHP 22.972 DPA -15.71 RAP 332.13 ECC 4.3815
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 37 2990.97 -28.03 95.77 272.63 85.83 7 14 28 2391.0 -28.32 87.12
 90.00 20 24 44 5127.76 25.06 228.23 264.62 76.36 21 50 12 4527.8 22.94 220.20
 100.00 7 49 52 2716.01 -29.65 75.68 272.76 86.04 8 35 8 2116.0 -29.89 66.89
 100.00 21 42 10 4877.95 26.64 209.43 264.19 75.90 23 3 28 4278.0 24.43 201.32
 110.00 9 7 2 2474.52 -34.03 57.68 273.09 86.60 9 48 16 1874.5 -34.13 48.44
 110.00 22 41 29 4692.20 30.88 194.06 262.91 74.55 23 59 42 4092.2 28.45 185.70

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0108 TRA-2.3956 TC3 -.1719 BAU .4749 SGT 1158.2 SGR 484.2 SG3 39.6 ST 497.7 SR 431.4 SS 464.5
 RDE -1.0661 RRA .5537 RC3 -.0188 FAU .01110 RRT -.0312 RRF .0336 RTF -.7375 CRT .7115 CRS .7796 CST .9937
 FDE .5079 FRA .9607 FC3 -.0468 BSP 2211 SGB 1255.4 R23 -.0057 R13 .7375 LSA 763.1 MSA 258.9 SSA 15.7
 BDE 1.4691 BRA 2.4588 BC3 .1729 FSP -81 SG1 1158.3 SG2 483.9 THA 179.10 EL1 610.5 EL2 247.1 ALF 39.30

LAUNCH DATE NOV 29 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 20.593 GAL 22.06 AZL 86.99 HCA 59.41 SMA 96.53 ECC .61723 INC 3.0143 V1 30.196
 RP 107.48 LAP 2.59 LOP 126.22 VP 33.086 GAP -37.64 AZP 88.47 TAL 164.58 TAP 223.99 RCA 36.95 APO 156.11 V2 35.258
 RC 73.439 GL 4.18 GP -.78 ZAL 54.34 ZAP 24.18 ETS 177.34 ZAE 132.16 ETE 188.83 ZAC 66.07 ETC 163.11 CLP 24.17

DISTANCE 173.308

PLANETOCENTRIC CONIC
 C3 189.374 VHL 13.761 CLA 8.83 RAL 9.96 RAD 6571.0 VEL 17.627 PTH 2.98 VHP 22.126 DPA -15.11 RAP 333.95 ECC 4.1166
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 22 7 3002.14 -27.98 96.59 272.86 85.43 7 12 9 2402.1 -28.32 87.94
 90.00 20 33 55 5091.15 24.45 225.72 264.26 75.25 21 58 46 4491.2 22.18 217.78
 100.00 7 47 46 2725.91 -29.60 76.42 273.01 85.66 8 33 12 2125.9 -29.89 67.62
 100.00 21 50 57 4842.61 26.03 206.98 263.79 74.75 23 11 40 4242.6 23.68 198.97
 110.00 9 5 49 2481.67 -34.00 58.24 273.37 86.27 9 47 10 1881.7 -34.15 48.99
 110.00 22 49 24 4659.62 30.27 191.72 262.42 73.30 24 7 3 4059.6 27.68 183.48

DIFFERENTIAL CORRECTIONS
 TOE -.9559 TRA-2.3537 TC3 -.1680 BAU .4288 SGT 1164.4 SGR 485.6 SG3 42.4 ST 497.1 SR 432.5 SS 477.3
 ROE -1.0262 RRA .5296 RC3 -.0212 FAU .01158 RRT -.0430 RRF .0364 RTF -.7539 CRT .6984 CRS .7789 CST .9918
 FDE .5197 FRA .9850 FC3 -.0529 BSP 3863 SGB 1261.6 R23 .0028 R13 .7540 LSA 769.5 MSA 263.8 SSA 15.4
 BOE 1.4025 BRA 2.4126 BC3 .1694 FSP -105 SG1 1164.6 SG2 485.0 THA 178.76 EL1 608.5 EL2 252.9 ALF 39.34

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 29 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 21.090 GAL 21.12 AZL 86.94 HCA 62.66 SMA 98.00 ECC .59345 INC 3.0560 V1 30.196
 RP 107.48 LAP 2.71 LOP 129.47 VP 33.399 GAP -36.03 AZP 88.60 TAL 163.74 TAP 226.40 RCA 39.84 APO 156.16 V2 35.259
 RC 71.328 GL 4.55 GP -.80 ZAL 53.35 ZAP 22.80 ETS 177.26 ZAE 132.61 ETE 189.39 ZAC 67.88 ETC 163.45 CLP 22.79

DISTANCE 179.506

PLANETOCENTRIC CONIC
 C3 174.613 VHL 13.214 CLA 9.57 RAL 10.75 RAD 6570.9 VEL 17.203 PTH 2.94 VHP 21.306 DPA -14.49 RAP 335.77 ECC 3.8737
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 25 3012.82 -27.92 97.36 273.01 85.04 7 9 38 2412.8 -28.31 88.72
 90.00 20 42 57 5053.98 23.78 223.20 263.85 74.16 22 7 11 4454.0 21.38 215.35
 100.00 7 45 28 2735.31 -29.55 77.11 273.16 85.30 8 31 3 2135.3 -29.89 68.32
 100.00 21 59 35 4806.73 25.36 204.52 263.35 73.62 23 19 42 4206.7 22.87 196.61
 110.00 9 4 24 2488.26 -33.97 58.75 273.56 85.97 9 45 52 1888.3 -34.16 49.51
 110.00 22 57 8 4626.53 29.60 189.38 261.88 72.06 24 14 15 4026.5 26.86 181.26

DIFFERENTIAL CORRECTIONS
 TOE -.9773 TRA-2.3870 TC3 -.1795 BAU .4226 SGT 1227.3 SGR 486.0 SG3 45.7 ST 528.1 SR 432.7 SS 498.2
 ROE -.9859 RRA .5062 RC3 -.0236 FAU .01164 RRT -.0385 RRF .0347 RTF -.7671 CRT .7008 CRS .7805 CST .9920
 FDE .5416 FRA 1.0195 FC3 -.0577 BSP 3696 SGB 1320.0 R23 .0003 R13 .7671 LSA 801.9 MSA 266.5 SSA 15.7
 BOE 1.3882 BRA 2.4401 BC3 .1810 FSP -110 SG1 1227.5 SG2 485.5 THA 178.97 EL1 632.2 EL2 257.8 ALF 37.01

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 29 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 21.557 GAL 20.22 AZL 86.90 HCA 65.91 SMA 99.47 ECC .57026 INC 3.0954 V1 30.196
 RP 107.48 LAP 2.83 LOP 132.72 VP 33.696 GAP -34.50 AZP 88.74 TAL 162.91 TAP 228.82 RCA 42.75 APO 156.19 V2 35.259
 RC 69.241 GL 4.94 GP -.84 ZAL 52.41 ZAP 21.44 ETS 177.15 ZAE 133.16 ETE 189.98 ZAC 69.69 ETC 163.77 CLP 21.42

DISTANCE 185.778

PLANETOCENTRIC CONIC
 C3 161.036 VHL 12.690 CLA 10.30 RAL 11.50 RAD 6570.8 VEL 16.804 PTH 2.90 VHP 20.511 DPA -13.85 RAP 337.60 ECC 3.6502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 16 29 3023.01 -27.85 98.10 273.05 84.68 7 6 52 2423.0 -28.30 89.46
 90.00 20 51 50 5016.20 23.05 220.67 263.39 73.09 22 15 27 4416.2 20.52 212.92
 100.00 7 42 56 2744.17 -29.50 77.76 273.22 84.96 8 28 41 2144.2 -29.89 68.98
 100.00 22 8 4 4770.27 24.64 202.05 262.86 72.51 23 27 34 4170.3 22.01 194.24
 110.00 9 2 48 2494.28 -33.94 59.22 273.65 85.69 9 44 22 1894.3 -34.17 49.98
 110.00 23 4 42 4592.92 28.87 187.03 261.29 70.84 24 21 15 3992.9 25.98 179.04

DIFFERENTIAL CORRECTIONS
 TOE -.9847 TRA-2.4050 TC3 -.1880 BAU .4086 SGT 1281.9 SGR 485.6 SG3 49.2 ST 554.5 SR 432.2 SS 518.4
 ROE -.9458 RRA .4827 RC3 -.0262 FAU .01182 RRT -.0368 RRF .0336 RTF -.7802 CRT .7005 CRS .7818 CST .9917
 FDE .5626 FRA 1.0531 FC3 -.0635 BSP 3871 SGB 1370.8 R23 -.0001 R13 .7802 LSA 830.9 MSA 268.9 SSA 15.8
 BOE 1.3654 BRA 2.4529 BC3 .1898 FSP -120 SG1 1282.1 SG2 485.3 THA 179.07 EL1 652.3 EL2 262.2 ALF 35.11

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 29 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 21.997 GAL 19.37 AZL 86.87 HCA 69.15 SMA 100.92 ECC .54771 INC 3.1328 V1 30.196
 RP 107.48 LAP 2.93 LOP 135.97 VP 33.978 GAP -33.02 AZP 88.88 TAL 162.11 TAP 231.26 RCA 45.64 APO 156.19 V2 35.258
 RC 67.184 GL 5.34 GP -.87 ZAL 51.52 ZAP 20.08 ETS 177.01 ZAE 133.80 ETE 190.61 ZAC 71.53 ETC 164.07 CLP 20.07

DISTANCE 192.122

PLANETOCENTRIC CONIC
 C3 148.550 VHL 12.188 CLA 11.03 RAL 12.20 RAD 6570.6 VEL 16.428 PTH 2.87 VHP 19.738 DPA -13.20 RAP 339.42 ECC 3.4448
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 19 3032.75 -27.79 98.81 273.01 84.33 7 3 52 2432.8 -28.28 90.18
 90.00 21 0 36 4977.78 22.27 218.13 262.88 72.05 22 23 34 4377.8 19.61 210.47
 100.00 7 40 12 2752.56 -29.45 78.38 273.19 84.63 8 26 4 2152.6 -29.88 69.60
 100.00 22 16 25 4733.20 23.86 199.58 262.31 71.43 23 35 18 4133.2 21.10 191.87
 110.00 9 0 59 2499.77 -33.91 59.64 273.65 85.44 9 42 39 1899.8 -34.17 50.41
 110.00 23 12 7 4558.76 28.08 184.68 260.65 69.66 24 28 6 3958.8 25.05 176.82

DIFFERENTIAL CORRECTIONS
 TOE -.9932 TRA-2.4222 TC3 -.1966 BAU .3947 SGT 1339.3 SGR 484.5 SG3 53.0 ST 582.5 SR 431.0 SS 539.4
 ROE -.9061 RRA .4591 RC3 -.0290 FAU .01201 RRT -.0345 RRF .0321 RTF -.7927 CRT .7007 CRS .7832 CST .9915
 FDE .5848 FRA 1.0880 FC3 -.0700 BSP 4027 SGB 1424.2 R23 -.0007 R13 .7927 LSA 861.7 MSA 270.8 SSA 16.0
 BOE 1.3444 BRA 2.4654 BC3 .1988 FSP -130 SG1 1339.4 SG2 484.2 THA 179.18 EL1 674.2 EL2 265.7 ALF 33.21

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE NOV 29 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 198.530

RL 147.55 LAL .00 LOL 66.85 VL 22.410 GAL 18.55 AZL 86.83 HCA 72.40 SMA 102.34 ECC .52584 INC 3.1686 VI 30.196
 RP 107.48 LAP 3.02 LOP 139.22 VP 34.245 GAP -31.61 AZP 89.04 TAL 161.33 TAP 233.73 RCA 48.53 APO 156.16 V2 35.257
 RC 65.159 GL 5.76 GP -.91 ZAL 50.68 ZAP 18.74 ETS 176.82 ZAE 134.54 ETE 191.28 ZAC 73.37 ETC 164.36 CLP 18.72

PLANETOCENTRIC CONIC

C3 137.069 VHL 11.708 CLA 11.76 RAL 12.85 RAD 6570.5 VEL 16.075 PTH 2.83 VHP 18.988 DPA -12.54 RAP 341.25 ECC 3.2558
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 9 54 3042.13 -27.72 99.49 272.87 84.00 7 0 36 2442.1 -28.27 90.86
 90.00 21 9 14 4938.69 21.43 215.57 262.33 71.03 22 31 33 4338.7 18.64 208.01
 100.00 7 37 13 2760.55 -29.40 78.97 273.06 84.33 8 23 13 2160.5 -29.87 70.20
 100.00 22 24 37 4695.51 23.02 197.09 261.73 70.38 23 42 52 4095.5 20.13 189.48
 110.00 8 58 57 2504.78 -33.89 60.03 273.55 85.22 9 40 42 1904.8 -34.18 50.80
 110.00 23 19 22 4524.03 27.24 182.33 259.98 68.50 24 34 46 3924.0 24.07 174.60

DIFFERENTIAL CORRECTIONS

TDE-1.0011 TRA-2.4373 TC3 -.2050 BAU .3803
 RDE -.8667 RRA .4357 RC3 -.0320 FAU .01223
 FDE .6081 FRA 1.1239 FC3 -.0772 BSP 4203
 BDE 1.3241 BRA 2.4759 BC3 .2075 FSP -141

MID-COURSE EXECUTION ACCURACY

SGT 1398.2 SGR 482.7 SG3 57.1
 RRT -.0319 RRF .0304 RTF -.8045
 SGB 1479.1 R23 -.0013 R13 .8045
 SGI 1398.3 SG2 482.4 THA 179.28

ORBIT DETERMINATION ACCURACY

ST 611.4 SR 429.2 SS 561.1
 CRT .7010 CRS .7848 CST .9913
 LSA 893.7 MSA 272.0 SSA 16.1
 EL1 697.1 EL2 268.4 ALF 31.36

LAUNCH DATE NOV 29 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 204.998

RL 147.55 LAL .00 LOL 66.85 VL 22.799 GAL 17.76 AZL 86.80 HCA 75.65 SMA 103.75 ECC .50467 INC 3.2031 VI 30.196
 RP 107.49 LAP 3.10 LOP 142.47 VP 34.499 GAP -30.25 AZP 89.21 TAL 160.57 TAP 236.22 RCA 51.39 APO 156.11 V2 35.254
 RC 63.173 GL 6.19 GP -.95 ZAL 49.90 ZAP 17.40 ETS 176.58 ZAE 135.38 ETE 192.01 ZAC 75.22 ETC 164.63 CLP 17.38

PLANETOCENTRIC CONIC

C3 126.511 VHL 11.248 CLA 12.48 RAL 13.46 RAD 6570.3 VEL 15.743 PTH 2.79 VHP 18.260 DPA -11.87 RAP 343.08 ECC 3.0820
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 13 3051.20 -27.66 100.14 272.64 83.67 6 57 4 2451.2 -28.25 91.52
 90.00 21 17 47 4898.90 20.53 213.00 261.73 70.05 22 39 25 4298.9 17.62 205.53
 100.00 7 33 58 2768.18 -29.35 79.53 272.84 84.04 8 20 7 2168.2 -29.86 70.76
 100.00 22 32 42 4657.15 22.12 194.60 261.10 69.36 23 50 19 4057.2 19.11 187.09
 110.00 8 56 41 2509.37 -33.86 60.39 273.35 85.01 9 38 30 1909.4 -34.18 51.16
 110.00 23 26 29 4488.73 26.33 179.99 259.27 67.37 24 41 18 3888.7 23.03 172.38

DIFFERENTIAL CORRECTIONS

TDE-1.0067 TRA-2.4481 TC3 -.2124 BAU .3642
 RDE -.8277 RRA .4125 RC3 -.0353 FAU .01249
 FDE .6323 FRA 1.1608 FC3 -.0855 BSP 4437
 BDE 1.3033 BRA 2.4826 BC3 .2153 FSP -154

MID-COURSE EXECUTION ACCURACY

SGT 1456.9 SGR 480.0 SG3 61.6
 RRT -.0296 RRF .0286 RTF -.8159
 SGB 1534.0 R23 -.0015 R13 .8159
 SGI 1457.0 SG2 479.7 THA 179.37

ORBIT DETERMINATION ACCURACY

ST 640.3 SR 426.5 SS 583.5
 CRT .7012 CRS .7864 CST .9911
 LSA 926.2 MSA 272.7 SSA 16.2
 EL1 720.3 EL2 270.3 ALF 29.61

LAUNCH DATE NOV 29 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 211.519

RL 147.55 LAL .00 LOL 66.85 VL 23.164 GAL 17.01 AZL 86.76 HCA 78.90 SMA 105.13 ECC .48421 INC 3.2367 VI 30.196
 RP 107.50 LAP 3.18 LOP 145.72 VP 34.738 GAP -28.93 AZP 89.38 TAL 159.84 TAP 238.73 RCA 54.23 APO 156.04 V2 35.251
 RC 61.231 GL 6.65 GP -1.00 ZAL 49.16 ZAP 16.08 ETS 176.27 ZAE 136.32 ETE 192.79 ZAC 77.08 ETC 164.89 CLP 16.05

PLANETOCENTRIC CONIC

C3 116.804 VHL 10.808 CLA 13.20 RAL 14.02 RAD 6570.2 VEL 15.432 PTH 2.76 VHP 17.553 DPA -11.19 RAP 344.90 ECC 2.9223
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 2 15 3060.06 -27.59 100.78 272.32 83.36 6 53 15 2460.1 -28.22 92.17
 90.00 21 26 13 4858.37 19.56 210.42 261.10 69.11 22 47 12 4258.4 16.55 203.04
 100.00 7 30 28 2775.54 -29.29 80.07 272.54 83.76 8 16 43 2175.5 -29.85 71.31
 100.00 22 40 41 4618.12 21.16 192.09 260.44 68.38 23 57 39 4018.1 18.04 184.69
 110.00 8 54 11 2513.59 -33.83 60.71 273.07 84.81 9 36 4 1913.6 -34.18 51.49
 110.00 23 33 27 4452.84 25.37 177.64 258.52 66.28 24 47 40 3852.8 21.95 170.16

DIFFERENTIAL CORRECTIONS

TDE-1.0128 TRA-2.4573 TC3 -.2195 BAU .3480
 RDE -.7892 RRA .3895 RC3 -.0387 FAU .01279
 FDE .6580 FRA 1.1992 FC3 -.0948 BSP 4673
 BDE 1.2840 BRA 2.4879 BC3 .2229 FSP -168

MID-COURSE EXECUTION ACCURACY

SGT 1517.8 SGR 476.5 SG3 66.4
 RRT -.0269 RRF .0266 RTF -.8267
 SGB 1590.9 R23 -.0019 R13 .8267
 SGI 1517.9 SG2 476.3 THA 179.46

ORBIT DETERMINATION ACCURACY

ST 670.6 SR 423.2 SS 606.8
 CRT .7017 CRS .7882 CST .9909
 LSA 960.4 MSA 272.7 SSA 16.3
 EL1 745.1 EL2 271.4 ALF 27.90

LAUNCH DATE NOV 29 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 218.090

RL 147.55 LAL .00 LOL 66.85 VL 23.508 GAL 16.30 AZL 86.73 HCA 82.14 SMA 106.48 ECC .46449 INC 3.2695 VI 30.196
 RP 107.51 LAP 3.24 LOP 148.97 VP 34.964 GAP -27.67 AZP 89.55 TAL 159.13 TAP 241.27 RCA 57.02 APO 155.94 V2 35.248
 RC 59.338 GL 7.12 GP -1.04 ZAL 48.47 ZAP 14.75 ETS 175.87 ZAE 137.38 ETE 193.65 ZAC 78.95 ETC 165.13 CLP 14.72

PLANETOCENTRIC CONIC

C3 107.882 VHL 10.387 CLA 13.93 RAL 14.54 RAD 6570.1 VEL 15.140 PTH 2.72 VHP 16.867 DPA -10.50 RAP 346.73 ECC 2.7755
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 58 3068.80 -27.52 101.41 271.91 83.05 6 49 6 2468.8 -28.20 92.81
 90.00 21 34 36 4817.09 18.54 207.82 260.43 68.21 22 54 53 4217.1 15.42 200.54
 100.00 7 26 40 2782.72 -29.24 80.60 272.14 83.49 8 13 3 2182.7 -29.83 71.84
 100.00 22 48 34 4578.40 20.14 189.58 259.74 67.43 24 4 53 3978.4 16.91 182.28
 110.00 8 51 26 2517.51 -33.81 61.02 272.70 84.64 9 33 23 1917.5 -34.18 51.79
 110.00 23 40 18 4416.37 24.35 175.30 257.74 65.24 24 53 55 3816.4 20.81 167.95

DIFFERENTIAL CORRECTIONS

TDE-1.0186 TRA-2.4638 TC3 -.2258 BAU .3314
 RDE -.7511 RRA .3670 RC3 -.0424 FAU .01312
 FDE .6853 FRA 1.2391 FC3 -.1053 BSP 4919
 BDE 1.2656 BRA 2.4910 BC3 .2298 FSP -184

MID-COURSE EXECUTION ACCURACY

SGT 1580.0 SGR 472.2 SG3 71.6
 RRT -.0239 RRF .0243 RTF -.8370
 SGB 1649.1 R23 -.0023 R13 .8370
 SGI 1580.1 SG2 472.0 THA 179.55

ORBIT DETERMINATION ACCURACY

ST 701.7 SR 419.1 SS 631.2
 CRT .7025 CRS .7901 CST .9906
 LSA 996.1 MSA 272.1 SSA 16.4
 EL1 770.9 EL2 271.5 ALF 26.26

LAUNCH DATE NOV 29 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 23.830 GAL 15.61 AZL 86.70 HCA 85.39 SMA 107.80 ECC .44550 INC 3.3018 V1 30.196
 RP 107.52 LAP 3.29 LOP 152.23 VP 35.178 GAP -26.46 AZP 89.73 TAL 158.45 TAP 243.84 RCA 59.78 APO 155.83 V2 35.243
 RC 57.501 GL 7.61 GP -1.10 ZAL 47.84 ZAP 13.43 ETS 175.35 ZAE 138.56 ETE 194.58 ZAC 80.82 ETC 165.36 CLP 13.39

DISTANCE 224.704

PLANETOCENTRIC CONIC
 C3 99.686 VHL 9.984 DLA 14.65 RAL 15.00 RAD 6569.9 VEL 14.867 PTH 2.68 VHP 16.200 DPA -9.80 RAP 348.54 ECC 2.6406
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 53 21 3077.52 -27.45 102.04 271.42 82.75 6 44 39 2477.5 -28.17 93.45
 90.00 21 42 55 4775.02 17.46 205.21 259.73 67.34 23 2 30 4175.0 14.24 198.01
 100.00 7 22 34 2789.81 -29.18 81.12 271.66 83.22 8 9 4 2189.8 -29.81 72.37
 100.00 22 56 23 4537.97 19.07 187.06 259.00 66.53 24 12 1 3938.0 15.73 179.86
 110.00 8 48 24 2521.22 -33.79 61.30 272.24 84.47 9 30 26 1921.2 -34.18 52.08
 110.00 23 47 2 4379.32 23.28 172.96 256.94 64.23 25 0 1 3779.3 19.62 165.73

MID-COURSE EXECUTION ACCURACY
 SGT 1646.9 SGR 467.0 SG3 77.3
 RRT -.0198 RRF .0215 RTF -.8466
 SGB 1711.8 R23 -.0032 R13 .8466
 SGI 1646.9 SG2 466.9 THA 179.65

ORBIT DETERMINATION ACCURACY
 ST 735.8 SR 414.1 SS 657.1
 CRT .7043 CRS .7923 CST .9905
 LSA 1035.0 MSA 270.6 SSA 16.5
 EL1 799.8 EL2 270.5 ALF 24.62

DIFFERENTIAL CORRECTIONS
 TDE-1.0277 TRA-2.4712 TC3 -.2327 BAU .3162
 RDE -.7137 RRA .3448 RC3 -.0463 FAU .01347
 FDE .7150 FRA 1.2812 FC3 -.1170 BSP 5102
 BDE 1.2512 BRA 2.4951 BC3 .2372 FSP -199

LAUNCH DATE NOV 29 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 24.133 GAL 14.95 AZL 86.67 HCA 88.63 SMA 109.09 ECC .42727 INC 3.3337 V1 30.196
 RP 107.54 LAP 3.33 LOP 155.48 VP 35.378 GAP -25.28 AZP 89.92 TAL 157.81 TAP 246.44 RCA 62.48 APO 155.70 V2 35.238
 RC 55.726 GL 8.12 GP -1.16 ZAL 47.26 ZAP 12.12 ETS 174.66 ZAE 139.85 ETE 195.60 ZAC 82.69 ETC 165.57 CLP 12.06

DISTANCE 231.357

PLANETOCENTRIC CONIC
 C3 92.157 VHL 9.600 DLA 15.57 RAL 15.42 RAD 6569.8 VEL 14.612 PTH 2.65 VHP 15.554 DPA -9.11 RAP 350.36 ECC 2.5167
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 23 3086.35 -27.37 102.67 270.85 82.44 6 39 50 2486.3 -28.13 94.09
 90.00 21 51 12 4732.14 16.31 202.58 259.00 66.53 23 10 4 4132.1 13.00 195.47
 100.00 7 18 8 2796.91 -29.12 81.64 271.10 82.95 8 4 45 2196.9 -29.79 72.90
 100.00 23 4 8 4496.82 17.93 184.53 258.25 65.67 24 19 5 3896.8 14.50 177.42
 110.00 8 45 6 2524.80 -33.76 61.58 271.71 84.31 9 27 11 1924.8 -34.18 52.36
 110.00 23 53 40 4341.89 22.14 170.63 256.11 63.27 25 6 1 3741.7 18.58 163.52

MID-COURSE EXECUTION ACCURACY
 SGT 1712.9 SGR 461.1 SG3 83.5
 RRT -.0161 RRF .0187 RTF -.8558
 SGB 1775.9 R23 -.0039 R13 .8558
 SGI 1712.9 SG2 461.0 THA 179.73

ORBIT DETERMINATION ACCURACY
 ST 769.6 SR 408.4 SS 684.0
 CRT .7058 CRS .7946 CST .9904
 LSA 1074.4 MSA 268.7 SSA 16.5
 EL1 828.8 EL2 268.6 ALF 23.10

DIFFERENTIAL CORRECTIONS
 TDE-1.0343 TRA-2.4738 TC3 -.2377 BAU .2994
 RDE -.6768 RRA .3232 RC3 -.0504 FAU .01388
 FDE .7464 FRA 1.3249 FC3 -.1304 BSP 5346
 BDE 1.2361 BRA 2.4948 BC3 .2430 FSP -218

LAUNCH DATE NOV 29 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 24.417 GAL 14.32 AZL 86.63 HCA 91.88 SMA 110.34 ECC .40977 INC 3.3656 V1 30.196
 RP 107.56 LAP 3.36 LOP 158.72 VP 35.567 GAP -24.15 AZP 90.11 TAL 157.19 TAP 249.07 RCA 65.13 APO 155.56 V2 35.232
 RC 54.021 GL 8.65 GP -1.23 ZAL 46.73 ZAP 10.80 ETS 173.74 ZAE 141.27 ETE 196.74 ZAC 84.56 ETC 165.77 CLP 10.74

DISTANCE 238.044

PLANETOCENTRIC CONIC
 C3 85.245 VHL 9.233 DLA 16.10 RAL 15.79 RAD 6569.7 VEL 14.373 PTH 2.61 VHP 14.926 DPA -8.41 RAP 352.16 ECC 2.4029
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 3 3095.40 -27.29 103.32 270.19 82.12 6 34 38 2495.4 -28.09 94.75
 90.00 21 59 29 4688.43 15.11 199.94 258.24 65.76 23 17 37 4088.4 11.71 192.91
 100.00 7 13 22 2804.14 -29.06 82.17 270.46 82.68 8 0 6 2204.1 -29.77 73.43
 100.00 23 11 51 4454.93 16.74 182.00 257.47 64.87 24 26 6 3854.9 13.21 174.98
 110.00 8 41 31 2528.33 -33.74 61.85 271.10 84.15 9 23 39 1928.3 -34.18 52.64
 110.00 0 4 7 4303.49 20.95 168.30 255.26 62.35 1 15 50 3703.5 17.09 161.31

MID-COURSE EXECUTION ACCURACY
 SGT 1780.5 SGR 454.3 SG3 90.2
 RRT -.0120 RRF .0157 RTF -.8646
 SGB 1837.6 R23 -.0046 R13 .8646
 SGI 1780.5 SG2 454.2 THA 179.81

ORBIT DETERMINATION ACCURACY
 ST 804.8 SR 401.9 SS 712.3
 CRT .7078 CRS .7971 CST .9902
 LSA 1116.0 MSA 266.0 SSA 16.6
 EL1 859.3 EL2 265.8 ALF 21.64

DIFFERENTIAL CORRECTIONS
 TDE-1.0414 TRA-2.4739 TC3 -.2418 BAU .2825
 RDE -.6407 RRA .3021 RC3 -.0548 FAU .01434
 FDE .7802 FRA 1.3707 FC3 -.1456 BSP 5594
 BDE 1.2227 BRA 2.4923 BC3 .2479 FSP -237

LAUNCH DATE NOV 29 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 24.683 GAL 13.72 AZL 86.60 HCA 95.12 SMA 111.55 ECC .39302 INC 3.3976 V1 30.196
 RP 107.58 LAP 3.58 LOP 161.97 VP 35.744 GAP -23.06 AZP 90.30 TAL 156.61 TAP 251.73 RCA 67.71 APO 155.40 V2 35.226
 RC 52.393 GL 9.21 GP -1.30 ZAL 46.25 ZAP 9.49 ETS 172.49 ZAE 142.82 ETE 198.01 ZAC 86.43 ETC 165.96 CLP 9.40

DISTANCE 244.761

PLANETOCENTRIC CONIC
 C3 78.904 VHL 8.883 DLA 16.83 RAL 16.10 RAD 6569.5 VEL 14.151 PTH 2.58 VHP 14.317 DPA -7.71 RAP 353.96 ECC 2.2986
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 18 3104.83 -27.20 104.00 269.47 81.79 6 29 2 2504.8 -28.05 95.44
 90.00 22 7 46 4643.85 13.85 197.28 257.47 65.05 23 25 10 4043.8 10.37 190.32
 100.00 7 8 13 2811.62 -29.00 82.71 269.75 82.40 7 55 5 2211.6 -29.74 73.99
 100.00 23 19 32 4412.30 15.49 179.45 256.67 64.11 24 33 4 3812.3 11.88 172.51
 110.00 8 37 36 2531.94 -33.71 62.13 270.41 83.98 9 19 48 1931.9 -34.18 52.92
 110.00 0 10 33 4264.75 19.71 165.98 254.39 61.49 1 21 38 3664.7 15.75 159.10

MID-COURSE EXECUTION ACCURACY
 SGT 1849.8 SGR 446.6 SG3 97.6
 RRT -.0077 RRF .0126 RTF -.8728
 SGB 1902.7 R23 -.0055 R13 .8728
 SGI 1849.6 SG2 446.6 THA 179.89

ORBIT DETERMINATION ACCURACY
 ST 841.1 SR 394.5 SS 742.1
 CRT .7102 CRS .7998 CST .9901
 LSA 1159.6 MSA 262.6 SSA 16.6
 EL1 891.3 EL2 262.1 ALF 20.25

DIFFERENTIAL CORRECTIONS
 TDE-1.0488 TRA-2.4716 TC3 -.2448 BAU .2657
 RDE -.6051 RRA .2817 RC3 -.0593 FAU .01484
 FDE .8167 FRA 1.4190 FC3 -.1628 BSP 5847
 BDE 1.2109 BRA 2.4876 BC3 .2519 FSP -239

LAUNCH DATE NOV 29 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 251.503

RL 147.55 LAL .00 LOL 66.85 VL 24.933 GAL 13.14 AZL 86.57 HCA 98.36 SMA 112.73 ECC .37701 INC 3.4299 V1 30.196
 RP 107.60 LAP 3.39 LOP 165.22 VP 35.910 GAP -22.00 AZP 90.50 TAL 156.06 TAP 254.42 RCA 70.23 APO 155.23 V2 35.219
 RC 50.852 GL 9.78 GP -1.38 ZAL 45.83 ZAP 8.18 ETS 170.75 ZAE 144.49 ETE 199.44 ZAC 88.30 ETC 166.13 CLP 8.07

PLANETOCENTRIC CONIC

C3 73.089 VHL 8.549 DLA 17.56 RAL 16.37 RAD 6569.4 VEL 13.944 PTH 2.54 VHP 13.726 DPA -7.02 RAP 355.75 ECC 2.2029
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 31 6 3114.81 -27.10 104.71 268.67 81.45 6 23 1 2514.8 -28.00 96.16
 90.00 22 16 6 4598.36 12.52 194.59 256.68 64.39 23 32 44 3998.4 8.98 187.71
 100.00 7 2 40 2819.50 -28.92 83.29 268.97 82.10 7 49 40 2219.5 -29.71 74.57
 100.00 23 27 13 4368.90 14.18 176.89 255.85 63.41 24 40 2 3768.9 10.50 170.03
 110.00 8 33 23 2535.71 -33.69 62.42 269.66 83.81 9 15 38 1935.7 -34.17 53.21
 110.00 0 16 56 4225.46 18.42 163.67 253.51 60.68 1 27 21 3625.5 14.37 156.89

DIFFERENTIAL CORRECTIONS

TDE-1.0567 TRA-2.4669 TC3 -.2464 BAU .2487
 RDE -.5703 RRA .2621 RC3 -.0640 FAU .01540
 FDE .8564 FRA 1.4700 FC3 -.1824 BSP 6102
 BDE 1.2008 BRA 2.4808 BC3 .2545 FSP -283

MID-COURSE EXECUTION ACCURACY

SGT 1919.9 SGR 438.2 SG3 105.6
 RRT -.0032 RRF .0095 RTF -.8807
 SGB 1969.3 R23 .0065 R13 .8807
 SG1 1919.9 SG2 438.2 THA 179.96

ORBIT DETERMINATION ACCURACY

ST 878.8 SR 386.2 SS 773.7
 CRT .7129 CRS .8026 CST .9900
 LSA 1205.4 MSA 258.6 SSA 16.7
 EL1 924.8 EL2 257.4 ALF 18.92

LAUNCH DATE NOV 29 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 258.266

RL 147.55 LAL .00 LOL 66.85 VL 25.167 GAL 12.58 AZL 86.54 HCA 101.60 SMA 113.86 ECC .36172 INC 3.4627 V1 30.196
 RP 107.62 LAP 3.39 LOP 168.46 VP 36.065 GAP -20.98 AZP 90.70 TAL 155.55 TAP 257.15 RCA 72.68 APO 155.05 V2 35.211
 RC 49.405 GL 10.38 GP -1.47 ZAL 45.47 ZAP 6.88 ETS 168.21 ZAE 146.29 ETE 201.08 ZAC 90.15 ETC 166.29 CLP 6.72

PLANETOCENTRIC CONIC

C3 67.761 VHL 8.232 DLA 18.30 RAL 16.59 RAD 6569.3 VEL 13.752 PTH 2.51 VHP 13.153 DPA -6.33 RAP 357.53 ECC 2.1152
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 25 3125.51 -26.99 105.47 267.80 81.08 6 16 31 2525.5 -27.94 96.94
 90.00 22 24 31 4551.91 11.14 191.88 255.89 63.80 23 40 23 3951.9 7.53 185.06
 100.00 6 56 42 2827.94 -28.84 83.90 268.12 81.79 7 43 50 2227.9 -29.68 75.20
 100.00 23 34 55 4324.72 12.82 174.31 255.03 62.76 24 47 0 3724.7 9.07 167.53
 110.00 8 28 48 2539.77 -33.66 62.74 268.84 83.63 9 11 8 1939.8 -34.17 53.53
 110.00 0 23 14 4185.65 17.08 161.36 252.62 59.93 1 33 0 3585.6 12.95 154.68

DIFFERENTIAL CORRECTIONS

TDE-1.0648 TRA-2.4596 TC3 -.2464 BAU .2318
 RDE -.5363 RRA .2432 RC3 -.0688 FAU .01602
 FDE .8995 FRA 1.5240 FC3 -.2047 BSP 6359
 BDE 1.1923 BRA 2.4716 BC3 .2558 FSP -309

MID-COURSE EXECUTION ACCURACY

SGT 1991.3 SGR 428.9 SG3 114.4
 RRT .0013 RRF .0065 RTF -.8880
 SGB 2037.0 R23 .0077 R13 -.8880
 SG1 1991.3 SG2 428.9 THA .02

ORBIT DETERMINATION ACCURACY

ST 917.7 SR 377.1 SS 807.2
 CRT .7160 CRS .8055 CST .9900
 LSA 1253.4 MSA 254.0 SSA 16.7
 EL1 959.7 EL2 251.7 ALF 17.65

LAUNCH DATE NOV 29 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 265.047

RL 147.55 LAL .00 LOL 66.85 VL 25.386 GAL 12.06 AZL 86.50 HCA 104.84 SMA 114.95 ECC .34714 INC 3.4963 V1 30.196
 RP 107.65 LAP 3.38 LOP 171.71 VP 36.210 GAP -20.00 AZP 90.90 TAL 155.07 TAP 259.91 RCA 75.05 APO 154.86 V2 35.202
 RC 48.064 GL 11.01 GP -1.57 ZAL 45.16 ZAP 5.59 ETS 164.31 ZAE 148.20 ETE 202.96 ZAC 92.00 ETC 166.45 CLP 5.36

PLANETOCENTRIC CONIC

C3 62.883 VHL 7.930 DLA 19.04 RAL 16.75 RAD 6569.2 VEL 13.573 PTH 2.48 VHP 12.597 DPA -5.66 RAP 359.30 ECC 2.0349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 17 13 3137.14 -26.86 106.30 266.87 80.68 6 9 30 2537.1 -27.87 97.78
 90.00 22 33 3 4504.44 9.70 189.13 255.09 63.27 23 48 7 3904.4 6.04 182.37
 100.00 6 50 15 2837.10 -28.75 84.57 267.21 81.45 7 37 32 2237.1 -29.64 75.87
 100.00 23 42 41 4279.72 11.40 171.72 254.19 62.18 24 54 1 3679.7 7.59 165.01
 110.00 8 23 51 2544.26 -33.62 63.08 267.96 83.43 9 6 16 1944.3 -34.16 53.88
 110.00 0 29 31 4145.33 15.69 159.06 251.72 59.23 1 38 36 3545.3 11.49 152.47

DIFFERENTIAL CORRECTIONS

TDE-1.0740 TRA-2.4498 TC3 -.2449 BAU .2150
 RDE -.5029 RRA .2253 RC3 -.0738 FAU .01671
 FDE .9468 FRA 1.5814 FC3 -.2301 BSP 6616
 BDE 1.1859 BRA 2.4601 BC3 .2558 FSP -338

MID-COURSE EXECUTION ACCURACY

SGT 2063.8 SGR 418.8 SG3 124.1
 RRT .0058 RRF .0037 RTF -.8950
 SGB 2105.9 R23 .0091 R13 -.8950
 SG1 2063.8 SG2 418.8 THA .07

ORBIT DETERMINATION ACCURACY

ST 958.1 SR 367.1 SS 842.8
 CRT .7195 CRS .8086 CST .9900
 LSA 1304.1 MSA 248.8 SSA 16.7
 EL1 996.2 EL2 245.2 ALF 16.43

LAUNCH DATE NOV 29 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 271.840

RL 147.55 LAL .00 LOL 66.85 VL 25.591 GAL 11.55 AZL 86.47 HCA 108.07 SMA 116.00 ECC .33328 INC 3.5309 V1 30.196
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.345 GAP -19.04 AZP 91.10 TAL 154.62 TAP 262.70 RCA 77.34 APO 154.66 V2 35.194
 RC 46.839 GL 11.66 GP -1.69 ZAL 44.91 ZAP 4.33 ETS 157.84 ZAE 150.22 ETE 205.15 ZAC 93.84 ETC 166.59 CLP 3.99

PLANETOCENTRIC CONIC

C3 58.421 VHL 7.643 DLA 19.79 RAL 16.87 RAD 6569.1 VEL 13.408 PTH 2.45 VHP 12.058 DPA -5.00 RAP 361.05 ECC 1.9615
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 9 25 3149.95 -26.72 107.21 265.88 80.25 6 1 55 2549.9 -27.79 98.71
 90.00 22 41 45 4455.86 8.20 186.35 254.29 62.80 23 56 1 3855.9 4.49 179.64
 100.00 6 43 18 2847.18 -28.65 85.30 266.24 81.08 7 30 46 2247.2 -29.58 76.62
 100.00 23 50 33 4233.86 9.93 169.11 253.36 61.66 25 1 7 3633.9 6.07 162.45
 110.00 8 18 31 2549.29 -33.58 63.47 267.04 83.20 9 1 1 1949.3 -34.16 54.27
 110.00 0 35 45 4104.51 14.25 156.77 250.83 58.60 1 44 10 3504.5 9.99 150.26

DIFFERENTIAL CORRECTIONS

TDE-1.0833 TRA-2.4373 TC3 -.2412 BAU .1982
 RDE -.4703 RRA .2083 RC3 -.0789 FAU .01747
 FDE .9986 FRA 1.6426 FC3 -.2589 BSP 6874
 BDE 1.1810 BRA 2.4462 BC3 .2538 FSP -370

MID-COURSE EXECUTION ACCURACY

SGT 2136.8 SGR 407.9 SG3 134.7
 RRT .0099 RRF .0014 RTF -.9016
 SGB 2175.4 R23 .0107 R13 -.9016
 SG1 2136.8 SG2 407.9 THA .11

ORBIT DETERMINATION ACCURACY

ST 999.4 SR 356.1 SS 880.7
 CRT .7231 CRS .8117 CST .9900
 LSA 1357.2 MSA 243.1 SSA 16.7
 EL1 1034.0 EL2 237.7 ALF 15.27

LAUNCH DATE NOV 29 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 278.644

RL 147.55 LAL .00 LOL 66.85 VL 25.782 GAL 11.07 AZL 86.43 MCA 111.31 SMA 117.01 ECC .32010 INC 3.5668 V1 30.196
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.471 GAP -18.12 AZP 91.30 TAL 154.22 TAP 265.53 RCA 79.55 APO 154.46 V2 35.184
 RC 45.742 GL 12.33 GP -1.82 ZAL 44.71 ZAP 3.18 ETS 145.95 ZAE 152.33 ETE 207.75 ZAC 95.66 ETC 166.73 CLP 2.60

PLANETOCENTRIC CONIC

C3 54.342 VHL 7.372 DLA 20.55 RAL 16.93 RAD 6569.0 VEL 13.255 PTH 2.42 VHP 11.536 DPA -4.35 RAP 2.79 ECC 1.8943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 0 58 3164.20 -26.55 108.22 264.84 79.77 5 53 43 2564.2 -27.69 99.74
 90.00 22 50 42 4406.04 6.64 183.52 253.49 62.41 24 4 8 3806.0 2.89 176.85
 100.00 6 35 48 2858.40 -28.53 86.11 265.22 80.67 7 23 27 2258.4 -29.52 77.45
 100.00 0 2 29 4187.07 8.41 166.47 252.53 61.21 1 12 16 3587.1 4.50 159.86
 110.00 8 12 46 2555.04 -33.53 63.91 266.06 82.94 8 55 21 1955.0 -34.15 54.72
 110.00 0 42 0 4063.20 12.77 154.48 249.93 58.02 1 49 44 3463.2 8.46 148.04

DIFFERENTIAL CORRECTIONS

TDE-1.0937 TRA-2.4225 TC3 -.2356 BAU .1817
 RDE -.4384 RRA .1923 RC3 -.0840 FAU .01832
 FDE 1.0557 FRA 1.7081 FC3 -.2918 BSP 7127
 BDE 1.1783 BRA 2.4302 BC3 .2501 FSP -404

MID-COURSE EXECUTION ACCURACY

SGT 2210.6 SGR 396.2 SG3 146.3
 RRT .0134 RRF -.0000 RTF -.9079
 SGB 2245.8 R23 .0126 R13 -.9079
 SG1 2210.6 SG2 396.1 THA .14

ORBIT DETERMINATION ACCURACY

ST 1042.4 SR 344.1 SS 921.3
 CRT .7271 CRS .8148 CST .9901
 LSA 1413.3 MSA 236.9 SSA 16.7
 EL1 1073.5 EL2 229.4 ALF 14.16

LAUNCH DATE NOV 29 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 285.454

RL 147.55 LAL .00 LOL 66.85 VL 25.961 GAL 10.61 AZL 86.40 MCA 114.54 SMA 117.97 ECC .30760 INC 3.6043 V1 30.196
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.588 GAP -17.23 AZP 91.50 TAL 153.85 TAP 268.39 RCA 81.68 APO 154.26 V2 35.174
 RC 44.782 GL 13.03 GP -1.96 ZAL 44.57 ZAP 2.30 ETS 122.29 ZAE 154.51 ETE 210.85 ZAC 97.46 ETC 166.86 CLP 1.19

PLANETOCENTRIC CONIC

C3 50.619 VHL 7.115 DLA 21.31 RAL 16.94 RAD 6568.9 VEL 13.114 PTH 2.39 VHP 11.030 DPA -3.73 RAP 4.52 ECC 1.8331
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 51 48 3180.24 -26.35 109.35 263.73 79.24 5 44 48 2580.2 -27.57 100.90
 90.00 22 59 58 4354.79 5.01 180.63 252.71 62.09 24 12 32 3754.8 1.24 173.99
 100.00 6 27 42 2871.01 -28.38 87.02 264.15 80.21 7 15 33 2271.0 -29.44 78.38
 100.00 0 10 41 4139.26 6.83 163.80 251.72 60.83 1 19 40 3539.3 2.89 157.23
 110.00 8 6 35 2561.64 -33.48 64.42 265.04 82.65 8 49 16 1961.6 -34.13 55.24
 110.00 0 48 17 4021.40 11.25 152.19 249.04 57.51 1 55 18 3421.4 6.89 145.82

DIFFERENTIAL CORRECTIONS

TDE-1.1048 TRA-2.4050 TC3 -.2277 BAU .1655
 RDE -.4072 RRA .1775 RC3 -.0893 FAU .01925
 FDE 1.1189 FRA 1.7782 FC3 -.3292 BSP 7384
 BDE 1.1774 BRA 2.4115 BC3 .2446 FSP -443

MID-COURSE EXECUTION ACCURACY

SGT 2284.4 SGR 383.7 SG3 159.2
 RRT .0159 RRF -.0002 RTF -.9137
 SGB 2316.4 R23 .0148 R13 -.9137
 SG1 2284.4 SG2 383.6 THA .16

ORBIT DETERMINATION ACCURACY

ST 1086.6 SR 331.2 SS 964.7
 CRT .7311 CRS .8179 CST .9902
 LSA 1472.3 MSA 230.2 SSA 16.6
 EL1 1114.4 EL2 220.3 ALF 13.08

LAUNCH DATE NOV 29 1968

FLIGHT TIME 122.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 292.268

RL 147.55 LAL .00 LOL 66.85 VL 26.128 GAL 10.17 AZL 86.36 MCA 117.77 SMA 118.89 ECC .29575 INC 3.6437 V1 30.196
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.696 GAP -16.37 AZP 91.70 TAL 153.52 TAP 271.29 RCA 83.73 APO 154.05 V2 35.164
 RC 43.971 GL 13.76 GP -2.13 ZAL 44.49 ZAP 2.14 ETS 84.66 ZAE 156.71 ETE 214.61 ZAC 99.25 ETC 166.98 CLP -.24

PLANETOCENTRIC CONIC

C3 47.225 VHL 6.872 DLA 22.09 RAL 16.90 RAD 6568.8 VEL 12.984 PTH 2.37 VHP 10.540 DPA -3.14 RAP 6.22 ECC 1.7772
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 46 3198.48 -26.11 110.64 262.58 78.64 5 35 5 2598.5 -27.42 102.21
 90.00 23 9 39 4301.88 3.32 177.67 251.95 61.86 24 21 20 3701.9 -.47 171.04
 100.00 6 18 54 2885.30 -28.21 88.05 263.03 79.69 7 6 59 2285.3 -29.35 79.43
 100.00 0 19 8 4090.29 5.20 161.08 250.91 60.52 1 27 18 3490.3 1.23 154.54
 110.00 7 59 54 2569.28 -33.41 65.00 263.99 82.31 8 42 44 1969.3 -34.11 55.83
 110.00 0 54 37 3979.08 9.70 149.91 248.16 57.06 2 0 56 3379.1 5.29 143.59

DIFFERENTIAL CORRECTIONS

TDE-1.1166 TRA-2.3846 TC3 -.2165 BAU .1492
 RDE -.3766 RRA .1639 RC3 -.0945 FAU .02028
 FDE 1.1891 FRA 1.8538 FC3 -.3718 BSP 7646
 BDE 1.1784 BRA 2.3903 BC3 .2363 FSP -485

MID-COURSE EXECUTION ACCURACY

SGT 2357.8 SGR 370.4 SG3 173.4
 RRT .0166 RRF .0015 RTF -.9194
 SGB 2386.7 R23 .0172 R13 -.9194
 SG1 2357.8 SG2 370.3 THA .15

ORBIT DETERMINATION ACCURACY

ST 1131.9 SR 317.1 SS 1011.4
 CRT .7351 CRS .8208 CST .9903
 LSA 1534.5 MSA 223.2 SSA 16.5
 EL1 1156.5 EL2 210.4 ALF 12.04

LAUNCH DATE NOV 29 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 299.083

RL 147.55 LAL .00 LOL 66.85 VL 26.283 GAL 9.75 AZL 86.31 MCA 121.00 SMA 119.76 ECC .28455 INC 3.6855 V1 30.196
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.797 GAP -15.53 AZP 91.90 TAL 153.22 TAP 274.23 RCA 85.68 APO 153.84 V2 35.153
 RC 43.319 GL 14.52 GP -2.32 ZAL 44.46 ZAP 2.87 ETS 54.86 ZAE 158.89 ETE 219.22 ZAC 101.01 ETC 167.11 CLP -1.70

PLANETOCENTRIC CONIC

C3 44.134 VHL 6.643 DLA 22.87 RAL 16.80 RAD 6568.7 VEL 12.865 PTH 2.34 VHP 10.065 DPA -2.58 RAP 7.91 ECC 1.7263
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 45 3219.44 -25.82 112.10 261.37 77.96 5 24 25 2619.4 -27.22 103.72
 90.00 23 19 53 4246.92 1.55 174.60 251.22 61.72 24 30 40 3646.9 -2.24 167.97
 100.00 6 9 19 2901.63 -28.01 89.22 261.87 79.11 6 57 41 2301.6 -29.23 80.63
 100.00 0 27 56 4039.97 3.51 158.31 250.13 60.30 1 35 16 3440.0 -.47 151.78
 110.00 7 52 43 2578.16 -33.33 65.68 262.90 81.91 8 35 41 1978.2 -34.08 56.53
 110.00 1 1 2 3936.21 8.10 147.61 247.30 56.68 2 6 38 3336.2 3.66 141.34

DIFFERENTIAL CORRECTIONS

TDE-1.1263 TRA-2.3591 TC3 -.2017 BAU .1328
 RDE -.3464 RRA .1517 RC3 -.0998 FAU .02147
 FDE 1.2662 FRA 1.9343 FC3 -.4212 BSP 7955
 BDE 1.1783 BRA 2.3640 BC3 .2250 FSP -535

MID-COURSE EXECUTION ACCURACY

SGT 2427.3 SGR 356.3 SG3 189.0
 RRT .0139 RRF .0066 RTF -.9246
 SGB 2453.3 R23 .0198 R13 -.9246
 SG1 2427.3 SG2 356.3 THA .12

ORBIT DETERMINATION ACCURACY

ST 1175.8 SR 301.8 SS 1060.8
 CRT .7383 CRS .8232 CST .9904
 LSA 1597.5 MSA 216.2 SSA 16.3
 EL1 1197.3 EL2 199.9 ALF 11.04

LAUNCH DATE NOV 29 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 305.896

RL 147.55 LAL .00 LOL 66.85 VL 26.428 GAL 9.35 AZL 86.27 MCA 124.23 SMA 120.59 ECC .27398 INC 3.7302 V1 30.196
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.889 GAP -14.72 AZP 92.10 TAL 152.97 TAP 277.19 RCA 87.55 APO 153.63 V2 35.141
 RC 42.834 GL 15.30 GP -2.53 ZAL 44.50 ZAP 4.08 ETS 39.61 ZAE 160.97 ETE 224.92 ZAC 102.74 ETC 167.23 CLP -3.19

PLANETOCENTRIC CONIC

C3 41.325 VHL 6.428 CLA 23.67 RAL 16.65 RAD 6568.6 VEL 12.755 PTH 2.32 VHP 9.606 OPA -2.06 RAP 9.58 ECC 1.6801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 33 3243.84 -25.46 113.80 260.11 77.18 5 12 36 2643.8 -26.98 105.46
 90.00 23 30 54 4189.38 -30 171.39 250.52 61.68 24 40 43 3589.4 -4.09 164.75
 100.00 5 58 51 2920.46 -27.76 90.56 260.67 78.44 6 47 31 2320.5 -29.07 82.01
 100.00 0 37 13 3988.00 1.75 155.45 249.38 60.15 1 43 41 3388.0 -2.24 148.93
 110.00 7 44 57 2588.50 -33.22 66.47 261.79 81.46 8 28 5 1988.5 -34.05 57.33
 110.00 1 7 36 3892.72 6.47 145.30 246.46 56.36 2 12 28 3292.7 2.00 139.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1399 TRA-2.3339 TC3 -.1858 BAU .1179 SGT 2499.5 SGR 341.6 SG3 206.4 ST 1223.3 SR 285.2 SS 1114.9
 RDE -.3166 RRA .1410 RC3 -.1051 FAU .02275 RRT .0085 RRF .0152 RTF -.9296 CRT .7414 CRS .8250 CST .9906
 FDE 1.3536 FRA 2.0224 FC3 -.4765 BSP 8193 SGB 2522.8 R23 .0233 R13 -.9296 LSA 1666.4 MSA 208.8 SSA 16.1
 BDE 1.1830 BRA 2.3381 BC3 .2134 FSP -587 SGI 2499.5 SG2 341.6 THA .07 EL1 1241.9 EL2 188.5 ALF 10.04

LAUNCH DATE NOV 29 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 312.704

RL 147.55 LAL .00 LOL 66.85 VL 26.562 GAL 8.98 AZL 86.22 MCA 127.45 SMA 121.38 ECC .26401 INC 3.7785 V1 30.196
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.975 GAP -13.94 AZP 92.30 TAL 152.74 TAP 280.20 RCA 89.33 APO 153.42 V2 35.129
 RC 42.524 GL 16.12 GP -2.78 ZAL 44.59 ZAP 5.48 ETS 31.74 ZAE 162.86 ETE 231.97 ZAC 104.44 ETC 167.37 CLP -4.73

PLANETOCENTRIC CONIC

C3 38.778 VHL 6.227 CLA 24.48 RAL 16.45 RAD 6568.5 VEL 12.655 PTH 2.30 VHP 9.162 OPA -1.59 RAP 11.22 ECC 1.6382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 50 3272.72 -25.01 115.80 258.79 76.28 4 59 23 2672.7 -26.66 107.51
 90.00 23 42 58 4128.37 -2.27 167.98 249.89 61.77 24 51 46 3528.4 -6.03 161.32
 100.00 5 47 18 2942.37 -27.45 92.12 259.42 77.68 6 36 20 2342.4 -28.87 83.60
 100.00 0 47 7 3933.95 -.08 152.48 248.68 60.11 1 52 41 3334.0 -4.06 145.95
 110.00 7 36 33 2600.57 -33.10 67.39 260.65 80.93 8 19 53 2000.6 -34.00 58.27
 110.00 1 14 22 3848.52 4.80 142.98 245.64 56.11 2 18 30 3248.5 .31 136.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1552 TRA-2.3064 TC3 -.1679 BAU .1042 SGT 2571.1 SGR 326.3 SG3 225.7 ST 1272.4 SR 267.2 SS 1173.6
 RDE -.2871 RRA .1319 RC3 -.1104 FAU .02415 RRT -.0019 RRF .0295 RTF -.9341 CRT .7435 CRS .8257 CST .9909
 FDE 1.4520 FRA 2.1181 FC3 -.5392 BSP 8418 SGB 2591.7 R23 -.0277 R13 .9341 LSA 1739.8 MSA 201.3 SSA 15.9
 BDE 1.1903 BRA 2.3102 BC3 .2009 FSP -645 SGI 2571.1 SG2 326.3 THA 179.99 EL1 1288.1 EL2 176.5 ALF 9.04

LAUNCH DATE NOV 29 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 319.506

RL 147.55 LAL .00 LOL 66.85 VL 26.687 GAL 8.62 AZL 86.17 MCA 130.68 SMA 122.12 ECC .25463 INC 3.8311 V1 30.196
 RP 107.91 LAP 2.90 LOP 197.59 VP 37.053 GAP -13.18 AZP 92.50 TAL 152.56 TAP 283.24 RCA 91.03 APO 153.22 V2 35.117
 RC 42.392 GL 16.97 GP -3.07 ZAL 44.74 ZAP 7.01 ETS 27.30 ZAE 164.44 ETE 240.54 ZAC 106.10 ETC 167.51 CLP -6.30

PLANETOCENTRIC CONIC

C3 36.474 VHL 6.039 CLA 25.31 RAL 16.19 RAD 6568.4 VEL 12.564 PTH 2.28 VHP 8.733 OPA -1.17 RAP 12.84 ECC 1.6003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 49 8 3307.68 -24.43 118.19 257.39 75.21 4 44 16 2707.7 -26.22 109.98
 90.00 0 0 31 4062.45 -4.39 164.30 249.34 62.00 1 8 13 3462.4 -8.10 157.58
 100.00 5 34 26 2968.19 -27.06 93.94 258.12 76.80 6 23 54 2368.2 -28.61 85.48
 100.00 0 57 54 3877.17 -2.01 149.37 248.03 60.17 2 2 31 3277.2 -5.96 142.81
 110.00 7 27 25 2614.68 -32.94 68.47 259.50 80.31 8 11 0 2014.7 -33.93 59.37
 110.00 1 21 24 3803.44 3.08 140.61 244.85 55.94 2 24 47 3203.4 -1.41 134.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1710 TRA-2.2757 TC3 -.1467 BAU .0911 SGT 2639.8 SGR 310.5 SG3 247.1 ST 1321.9 SR 247.5 SS 1237.0
 RDE -.2575 RRA .1248 RC3 -.1158 FAU .02572 RRT -.0202 RRF .0522 RTF -.9385 CRT .7436 CRS .8247 CST .9912
 FDE 1.5627 FRA 2.2220 FC3 -.6104 BSP 8644 SGB 2658.0 R23 -.0330 R13 .9385 LSA 1816.9 MSA 193.9 SSA 15.5
 BDE 1.1989 BRA 2.2791 BC3 .1869 FSP -709 SGI 2639.9 SG2 310.4 THA 179.86 EL1 1334.8 EL2 163.8 ALF 8.05

LAUNCH DATE NOV 29 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 326.298

RL 147.55 LAL .00 LOL 66.85 VL 26.803 GAL 8.28 AZL 86.11 MCA 133.90 SMA 122.82 ECC .24583 INC 3.8890 V1 30.196
 RP 107.95 LAP 2.80 LOP 200.81 VP 37.125 GAP -12.45 AZP 92.70 TAL 152.41 TAP 286.31 RCA 92.63 APO 153.02 V2 35.105
 RC 42.442 GL 17.86 GP -3.41 ZAL 44.95 ZAP 8.62 ETS 24.64 ZAE 165.60 ETE 250.61 ZAC 107.73 ETC 167.67 CLP -7.93

PLANETOCENTRIC CONIC

C3 34.396 VHL 5.865 CLA 26.15 RAL 15.87 RAD 6568.4 VEL 12.481 PTH 2.26 VHP 8.318 OPA -.82 RAP 14.43 ECC 1.5661
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 30 34 3351.59 -23.63 121.16 255.89 73.93 4 26 25 2751.6 -25.61 113.05
 90.00 0 16 33 3988.90 -6.72 160.15 248.91 62.43 1 23 2 3388.9 -10.36 153.37
 100.00 5 19 53 2999.16 -26.56 96.10 256.77 75.76 6 9 52 2399.2 -28.26 87.71
 100.00 1 9 55 3816.57 -4.06 146.03 247.45 60.36 2 13 31 3216.6 -7.97 139.44
 110.00 7 17 28 2631.26 -32.75 69.72 258.32 79.59 8 1 19 2031.3 -33.83 60.65
 110.00 1 28 49 3757.23 1.32 138.20 244.11 55.84 2 31 26 3157.2 -3.17 131.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1849 TRA-2.2393 TC3 -.1195 BAU .0783 SGT 2701.8 SGR 294.4 SG3 270.8 ST 1369.2 SR 225.7 SS 1304.8
 RDE -.2275 RRA .1198 RC3 -.1214 FAU .02753 RRT -.0510 RRF .0874 RTF -.9426 CRT .7400 CRS .8207 CST .9914
 FDE 1.6867 FRA 2.3335 FC3 -.6930 BSP 8930 SGB 2717.8 R23 -.0388 R13 .9427 LSA 1895.5 MSA 186.8 SSA 15.1
 BDE 1.2065 BRA 2.2425 BC3 .1703 FSP -784 SGI 2701.8 SG2 294.0 THA 179.68 EL1 1379.4 EL2 150.7 ALF 7.04

LAUNCH DATE NOV 29 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 333.080

RL 147.55 LAL .00 LOL 66.85 VL 26.911 GAL 7.96 AZL 86.05 HCA 137.12 SMA 123.48 ECC .23757 INC 3.9534 V1 30.196
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.191 GAP -11.73 AZP 92.90 TAL 152.29 TAP 289.41 RCA 94.15 APO 152.82 V2 35.092
 RC 42.671 GL 18.79 GP -3.81 ZAL 45.21 ZAP 10.33 ETS 23.03 ZAE 166.23 ETE 261.71 ZAC 109.32 ETC 167.86 CLP -9.61

PLANETOCENTRIC CONIC

C3 32.531 VHL 5.704 DLA 27.02 RAL 15.49 RAD 6568.3 VEL 12.406 PTH 2.24 VHP 7.918 DPA -.55 RAP 16.00 ECC 1.5354
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 7 10 3410.76 -22.46 125.10 254.21 72.29 4 4 0 2810.8 -24.67 117.13
 90.00 0 36 57 3901.63 -9.44 155.18 248.69 63.18 1 41 58 3301.6 -12.97 148.28
 100.00 5 3 1 3037.28 -25.90 98.74 255.34 74.53 5 53 38 2437.3 -27.77 90.44
 100.00 1 23 47 3750.33 -6.28 142.37 246.98 60.71 2 26 17 3150.3 -10.13 135.70
 110.00 7 6 31 2650.83 -32.50 71.19 257.13 78.75 7 50 41 2050.8 -33.70 62.17
 110.00 1 36 46 3709.54 -.51 135.71 243.41 55.82 2 38 36 3109.5 -4.99 129.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1993 TRA-2.1999 TC3 -.0893 BAU .0676 SGT 2759.7 SGR 278.6 SG3 297.3 ST 1416.1 SR 201.6 SS 1378.3
 RDE -.1967 RRA .1173 RC3 -.1272 FAU .02955 RRT -.0980 RRF .1394 RTF -.9466 CRT .7305 CRS .8115 CST .9916
 FDE 1.8272 FRA 2.4548 FC3 -.7864 BSP 9211 SGB 2773.7 R23 -.0460 R13 .9466 LSA 1978.2 MSA 180.1 SSA 14.5
 BDE 1.2153 BRA 2.2030 BC3 .1554 FSP -868 SG1 2759.8 SG2 277.2 THA 179.43 EL1 1423.8 EL2 136.9 ALF 5.99

LAUNCH DATE NOV 29 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 339.850

RL 147.55 LAL .00 LOL 66.85 VL 27.010 GAL 7.66 AZL 85.97 HCA 140.33 SMA 124.10 ECC .22985 INC 4.0261 V1 30.196
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.251 GAP -11.04 AZP 93.10 TAL 152.21 TAP 292.54 RCA 95.58 APO 152.63 V2 35.080
 RC 43.078 GL 19.77 GP -4.29 ZAL 45.54 ZAP 12.12 ETS 22.10 ZAE 166.29 ETE 272.88 ZAC 110.86 ETC 168.08 CLP -11.35

PLANETOCENTRIC CONIC

C3 30.867 VHL 5.556 DLA 27.92 RAL 15.05 RAD 6568.2 VEL 12.339 PTH 2.22 VHP 7.532 DPA -.39 RAP 17.53 ECC 1.5080
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 31 55 3507.73 -20.32 131.40 252.09 69.84 3 30 23 2907.7 -22.88 123.67
 90.00 1 8 41 3778.23 -13.14 148.00 248.95 64.69 2 11 39 3178.2 -16.44 140.88
 100.00 4 42 37 3086.42 -24.96 102.09 253.78 73.00 5 34 3 2486.4 -27.05 93.92
 100.00 1 40 41 3674.78 -8.77 138.15 246.68 61.31 2 41 56 3074.8 -12.53 131.38
 110.00 6 54 20 2674.16 -32.17 72.93 255.92 77.77 7 38 54 2074.2 -33.52 63.96
 110.00 1 45 27 3659.80 -2.41 133.12 242.78 55.89 2 46 26 3059.8 -6.87 126.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2157 TRA-2.1576 TC3 -.0573 BAU .0600 SGT 2813.8 SGR 264.1 SG3 326.8 ST 1463.8 SR 174.7 SS 1459.0
 RDE -.1646 RRA .1178 RC3 -.1335 FAU .03178 RRT -.1668 RRF .2143 RTF -.9502 CRT .7102 CRS .7928 CST .9919
 FDE 1.9884 FRA 2.5871 FC3 -.8914 BSP 9464 SGB 2826.2 R23 -.0552 R13 .9503 LSA 2066.7 MSA 173.9 SSA 13.8
 BDE 1.2268 BRA 2.1609 BC3 .1453 FSP -961 SG1 2814.1 SG2 260.3 THA 179.10 EL1 1469.0 EL2 122.6 ALF 4.88

LAUNCH DATE NOV 29 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 346.604

RL 147.55 LAL .00 LOL 66.85 VL 27.102 GAL 7.38 AZL 85.89 HCA 143.55 SMA 124.68 ECC .22264 INC 4.1093 V1 30.196
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.305 GAP -10.37 AZP 93.31 TAL 152.15 TAP 295.70 RCA 96.92 APO 152.44 V2 35.067
 RC 43.658 GL 20.81 GP -4.86 ZAL 45.94 ZAP 14.02 ETS 21.67 ZAE 165.81 ETE 283.08 ZAC 112.35 ETC 168.36 CLP -13.17

PLANETOCENTRIC CONIC

C3 29.393 VHL 5.421 DLA 28.86 RAL 14.55 RAD 6568.2 VEL 12.279 PTH 2.21 VHP 7.161 DPA -.34 RAP 19.04 ECC 1.4837
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.20 1 0 10 3786.41 -17.56 150.67 249.52 66.73 2 3 17 3186.4 -20.56 143.24
 95.80 2 36 24 3475.01 -17.55 127.84 249.51 66.72 3 34 19 2875.0 -20.55 120.41
 100.00 4 15 39 3156.10 -23.49 106.75 251.97 70.97 5 8 15 2556.1 -25.87 98.76
 100.00 2 3 36 3580.56 -11.80 132.79 246.68 62.34 3 3 17 2980.6 -15.41 125.87
 110.00 6 40 34 2702.33 -31.75 75.02 254.67 76.60 7 25 37 2102.3 -33.26 66.12
 110.00 1 55 10 3607.09 -4.42 130.36 242.24 56.07 2 55 17 3007.1 -8.84 124.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2092 TRA-2.0883 TC3 .0095 BAU .0553 SGT 2825.3 SGR 252.5 SG3 357.9 ST 1484.7 SR 144.4 SS 1535.0
 RDE -.1300 RRA .1220 RC3 -.1404 FAU .03505 RRT -.2761 RRF .3245 RTF -.9545 CRT .6633 CRS .7522 CST .9918
 FDE 2.1556 FRA 2.7129 FC3 -1.0324 BSP 10278 SGB 2836.6 R23 -.0613 R13 .9547 LSA 2133.7 MSA 169.5 SSA 12.7
 BDE 1.2161 BRA 2.0918 BC3 .1407 FSP -1101 SG1 2826.2 SG2 242.6 THA 178.58 EL1 1487.8 EL2 107.9 ALF 3.71

LAUNCH DATE NOV 29 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 353.354

RL 147.55 LAL .00 LOL 66.85 VL 27.187 GAL 7.12 AZL 85.79 HCA 146.76 SMA 125.22 ECC .21597 INC 4.2061 V1 30.196
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.355 GAP -9.72 AZP 93.52 TAL 152.11 TAP 298.87 RCA 98.18 APO 152.27 V2 35.053
 RC 44.405 GL 21.91 GP -5.56 ZAL 46.39 ZAP 16.03 ETS 21.65 ZAE 164.91 ETE 291.59 ZAC 113.79 ETC 168.71 CLP -15.06

PLANETOCENTRIC CONIC

C3 28.119 VHL 5.303 DLA 29.84 RAL 13.98 RAD 6568.1 VEL 12.227 PTH 2.20 VHP 6.806 DPA -.45 RAP 20.52 ECC 1.4628
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.17 0 26 4 3877.60 -18.43 157.81 248.49 66.11 1 30 42 3277.6 -21.50 150.36
 99.83 3 5 59 3361.69 -18.42 119.87 248.48 66.10 4 2 1 2761.7 -21.49 112.43
 100.00 3 22 13 3309.87 -19.74 116.62 249.09 67.08 4 17 23 2709.9 -22.67 109.05
 100.00 2 52 32 3404.65 -17.12 122.44 247.86 65.11 3 49 17 2804.6 -20.33 115.12
 110.00 6 24 44 2737.19 -31.17 77.57 253.40 75.20 7 10 22 2137.2 -32.88 68.77
 110.00 2 6 30 3550.10 -6.57 127.36 241.84 56.38 3 5 40 2950.1 -10.95 120.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3472 TRA-2.1589 TC3 -.1240 BAU .0732 SGT 3060.7 SGR 248.2 SG3 404.7 ST 1664.2 SR 111.6 SS 1696.2
 RDE -.0929 RRA .1298 RC3 -.1501 FAU .03358 RRT -.3526 RRF .4343 RTF -.9533 CRT .5761 CRS .6628 CST .9937
 FDE 2.4643 FRA 2.9663 FC3 -1.0339 BSP 7640 SGB 3070.7 R23 -.1028 R13 .9535 LSA 2373.5 MSA 159.0 SSA 13.2
 BDE 1.3504 BRA 2.1628 BC3 .1947 FSP -1030 SG1 3061.9 SG2 232.1 THA 178.35 EL1 1665.5 EL2 91.2 ALF 2.22

LAUNCH DATE NOV 29 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 360.073

RL 147.55 LAL .00 LOL 66.85 VL 27.265 GAL 6.87 AZL 85.68 HCA 149.96 SMA 125.73 ECC .20973 INC 4.3209 V1 30.196
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.399 GAP -9.08 AZP 93.74 TAL 152.11 TAP 302.08 RCA 99.36 APO 152.09 V2 35.040
 RC 45.309 GL 23.10 GP -6.44 ZAL 46.93 ZAP 18.19 ETS 21.98 ZAE 163.69 ETE 298.07 ZAC 115.17 ETC 169.17 CLP -17.05

PLANETOCENTRIC CONIC

C3 27.014 VHL 5.197 CLA 30.89 RAL 13.31 RAD 6568.1 VEL 12.182 PTH 2.19 VHP 6.465 DPA -.76 RAP 21.99 ECC 1.4446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.11 0 0 41 3939.85 -19.32 162.88 247.46 65.42 1 6 21 3339.8 -22.47 155.43
 102.89 3 26 3 3279.47 -19.31 114.15 247.45 65.41 4 20 43 2679.5 -22.46 106.70
 77.11 0 0 41 3939.85 -19.32 162.88 247.46 65.42 1 6 21 3339.8 -22.47 155.43
 102.89 3 26 3 3279.47 -19.31 114.15 247.45 65.41 4 20 43 2679.5 -22.46 106.70
 110.00 6 5 39 2781.63 -30.35 80.78 252.01 73.46 6 52 1 2181.6 -32.31 72.11
 110.00 2 20 16 3485.69 -8.99 123.93 241.60 56.88 3 18 21 2885.7 -13.28 117.47

DIFFERENTIAL CORRECTIONS

TDE-1.3019 TRA-2.0399 TC3 .0035 BAU .0578
 RDE -.0495 RRA .1443 RC3 -.1599 FAU .03887
 FDE 2.6613 FRA 3.0816 FC3-1.2457 BSP 9416
 BDE 1.3029 BRA 2.0450 BC3 .1599 FSP -1261

MID-COURSE EXECUTION ACCURACY

SGT 2987.8 SGR 254.9 SG3 440.2
 RRT -.5358 RRF .6076 RTF -.9584
 SGB 2998.6 R23 -.1082 R13 .9588
 SG1 2990.9 SG2 215.0 THA 177.37

ORBIT DETERMINATION ACCURACY

ST 1636.4 SR 78.0 SS 1768.0
 CRT .2707 CRS .3797 CST .9931
 LSA 2405.1 MSA 158.3 SSA 11.4
 EL1 1636.5 EL2 75.1 ALF .74

LAUNCH DATE NOV 29 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 366.779

RL 147.55 LAL .00 LOL 66.85 VL 27.336 GAL 6.63 AZL 85.54 HCA 153.17 SMA 126.19 ECC .20396 INC 4.4602 V1 30.196
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.439 GAP -8.47 AZP 93.98 TAL 152.13 TAP 305.30 RCA 100.45 APO 151.93 V2 35.027
 RC 46.364 GL 24.41 GP -7.54 ZAL 47.56 ZAP 20.52 ETS 22.68 ZAE 162.24 ETE 302.61 ZAC 116.49 ETC 169.78 CLP -19.13

PLANETOCENTRIC CONIC

C3 26.107 VHL 5.110 DLA 32.03 RAL 12.55 RAD 6568.1 VEL 12.144 PTH 2.18 VHP 6.141 DPA -1.32 RAP 23.45 ECC 1.4297
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.37 23 34 40 3991.23 -20.24 167.22 246.47 64.63 24 41 12 3391.2 -23.48 159.76
 105.63 3 42 4 3211.16 -20.22 109.44 246.47 64.61 4 35 35 2611.2 -23.47 101.98
 74.37 23 34 40 3991.23 -20.24 167.22 246.47 64.63 24 41 12 3391.2 -23.48 159.76
 105.63 3 42 4 3211.16 -20.22 109.44 246.47 64.61 4 35 35 2611.2 -23.47 101.98
 110.00 5 41 18 2842.16 -29.10 85.05 250.42 71.22 6 28 40 2242.2 -31.38 76.59
 110.00 2 38 32 3408.23 -11.84 119.74 241.67 57.70 3 35 21 2808.2 -16.02 113.13

DIFFERENTIAL CORRECTIONS

TDE-1.3229 TRA-1.9807 TC3 .0393 BAU .0620
 RDE .0017 RRA .1657 RC3 -.1732 FAU .04212
 FDE 2.9525 FRA 3.2606 FC3-1.3967 BSP 9638
 BDE 1.3229 BRA 1.9876 BC3 .1776 FSP -1405

MID-COURSE EXECUTION ACCURACY

SGT 3010.9 SGR 281.8 SG3 485.7
 RRT -.6886 RRF .7604 RTF -.9611
 SGB 3024.1 R23 -.1316 R13 .9617
 SG1 3017.2 SG2 203.9 THA 176.30

ORBIT DETERMINATION ACCURACY

ST 1678.8 SR 66.0 SS 1886.2
 CRT -.4916 CRS -.3900 CST .9934
 LSA 2521.1 MSA 155.8 SSA 10.1
 EL1 1679.1 EL2 57.5 ALF 178.89

LAUNCH DATE NOV 29 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 373.467

RL 147.55 LAL .00 LOL 66.85 VL 27.402 GAL 6.42 AZL 85.37 HCA 156.37 SMA 126.62 ECC .19864 INC 4.6342 V1 30.196
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.474 GAP -7.87 AZP 94.25 TAL 152.17 TAP 308.54 RCA 101.47 APO 151.78 V2 35.013
 RC 47.558 GL 25.88 GP -8.97 ZAL 48.30 ZAP 23.06 ETS 23.78 ZAE 160.60 ETE 305.32 ZAC 117.76 ETC 170.59 CLP -21.33

PLANETOCENTRIC CONIC

C3 25.412 VHL 5.041 DLA 33.30 RAL 11.66 RAD 6568.0 VEL 12.116 PTH 2.17 VHP 5.836 DPA -2.23 RAP 24.94 ECC 1.4182
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.71 23 13 48 4038.26 -21.18 171.31 245.53 63.69 24 21 6 3438.3 -24.54 163.85
 108.29 3 55 50 3150.79 -21.17 105.30 245.52 63.68 4 48 21 2550.8 -24.53 97.83
 71.71 23 13 48 4038.26 -21.18 171.31 245.53 63.69 24 21 6 3438.3 -24.54 163.85
 108.29 3 55 50 3150.79 -21.17 105.30 245.52 63.68 4 48 21 2550.8 -24.53 97.83
 110.00 5 5 14 2937.97 -26.82 91.57 248.30 67.97 5 54 12 2338.0 -29.57 83.46
 110.00 3 7 30 3299.08 -15.73 113.68 242.41 59.25 4 2 30 2699.1 -19.69 106.80

DIFFERENTIAL CORRECTIONS

TDE-1.3468 TRA-1.9154 TC3 .0743 BAU .0696
 RDE .0651 RRA .1969 RC3 -.1910 FAU .04567
 FDE 3.2936 FRA 3.4437 FC3-1.5558 BSP 9854
 BDE 1.3484 BRA 1.9255 BC3 .2049 FSP -1565

MID-COURSE EXECUTION ACCURACY

SGT 3021.9 SGR 338.0 SG3 535.4
 RRT -.8078 RRF .8751 RTF -.9635
 SGB 3040.8 R23 -.1584 R13 .9645
 SG1 3034.3 SG2 198.4 THA 174.82

ORBIT DETERMINATION ACCURACY

ST 1718.6 SR 109.4 SS 2016.3
 CRT -.9367 CRS -.8922 CST .9936
 LSA 2647.1 MSA 154.7 SSA 8.7
 EL1 1721.7 EL2 38.2 ALF 176.59

LAUNCH DATE NOV 29 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 380.135

RL 147.55 LAL .00 LOL 66.85 VL 27.462 GAL 6.22 AZL 85.14 HCA 159.57 SMA 127.02 ECC .19376 INC 4.8589 V1 30.196
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.506 GAP -7.29 AZP 94.55 TAL 152.22 TAP 311.79 RCA 102.41 APO 151.63 V2 35.000
 RC 48.883 GL 27.57 GP -10.87 ZAL 49.20 ZAP 25.90 ETS 25.37 ZAE 158.70 ETE 306.32 ZAC 118.97 ETC 171.72 CLP -23.65

PLANETOCENTRIC CONIC

C3 24.968 VHL 4.997 DLA 34.74 RAL 10.59 RAD 6568.0 VEL 12.097 PTH 2.17 VHP 5.554 DPA -3.62 RAP 26.50 ECC 1.4109
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.97 22 53 0 4084.39 -22.16 175.45 244.64 62.53 24 1 4 3484.4 -25.66 167.99
 111.03 4 8 6 3095.97 -22.15 101.56 244.63 62.52 4 59 42 2496.0 -25.65 94.11
 68.97 22 53 0 4084.39 -22.16 175.45 244.64 62.53 24 1 4 3484.4 -25.66 167.99
 111.03 4 8 6 3095.97 -22.15 101.56 244.63 62.52 4 59 42 2496.0 -25.65 94.11
 68.97 22 53 0 4084.39 -22.16 175.45 244.64 62.53 24 1 4 3484.4 -25.66 167.99
 111.03 4 8 6 3095.97 -22.15 101.56 244.63 62.52 4 59 42 2496.0 -25.65 94.11

DIFFERENTIAL CORRECTIONS

TDE-1.3779 TRA-1.8453 TC3 .1033 BAU .0796
 RDE .1486 RRA .2415 RC3 -.2149 FAU .04926
 FDE 3.7001 FRA 3.6243 FC3-1.7078 BSP 10020
 BDE 1.3859 BRA 1.8611 BC3 .2385 FSP -1736

MID-COURSE EXECUTION ACCURACY

SGT 3022.9 SGR 434.4 SG3 589.1
 RRT -.8826 RRF .9432 RTF -.9656
 SGB 3053.9 R23 -.1851 R13 .9672
 SG1 3047.2 SG2 202.5 THA 172.74

ORBIT DETERMINATION ACCURACY

ST 1758.7 SR 198.2 SS 2162.3
 CRT -.9963 CRS -.9814 CST .9938
 LSA 2790.0 MSA 155.0 SSA 7.3
 EL1 1769.7 EL2 17.0 ALF 173.59

LAUNCH DATE NOV 29 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 386.783

RL 147.55 LAL .00 LOL 66.85 VL 27.516 GAL 6.04 AZL 84.84 MCA 162.77 SMA 127.39 ECC .18928 INC 5.1628 V1 30.196
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.533 GAP -6.73 AZP 94.93 TAL 152.28 TAP 315.05 RCA 103.28 APO 151.50 V2 34.987
 RC 50.327 GL 29.60 GP -13.48 ZAL 50.31 ZAP 29.16 ETS 27.59 ZAE 156.37 ETE 305.67 ZAC 120.13 ETC 173.33 CLP -26.10

PLANETOCENTRIC CONIC

C3 24.859 VHL 4.986 CLA 36.47 RAL 9.25 RAD 6568.0 VEL 12.093 PTH 2.16 VHP 5.303 DPA -5.72 RAP 28.22 ECC 1.4091
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.99 22 31 0 4133.19 -23.21 179.93 243.82 61.04 23 39 53 3533.2 -26.88 172.50
 114.01 4 19 25 3045.00 -23.19 98.11 243.81 61.03 5 10 10 2445.0 -26.87 90.69
 65.99 22 31 0 4133.19 -23.21 179.93 243.82 61.04 23 39 53 3533.2 -26.88 172.50
 114.01 4 19 25 3045.00 -23.19 98.11 243.81 61.03 5 10 10 2445.0 -26.87 90.69
 65.99 22 31 0 4133.19 -23.21 179.93 243.82 61.04 23 39 53 3533.2 -26.88 172.50
 114.01 4 19 25 3045.00 -23.19 98.11 243.81 61.03 5 10 10 2445.0 -26.87 90.69

DIFFERENTIAL CORRECTIONS

TDE-1.4234 TRA-1.7713 TC3 .1207 BAU .0915
 RDE .2658 RRA .3051 RC3 -.2475 FAU .05255
 FDE 4.1877 FRA 3.7830 FC3-1.8300 BSP 10106
 BOE 1.4480 BRA 1.7974 BC3 .2753 FSP -1909

MID-COURSE EXECUTION ACCURACY

SGT 3016.1 SGR 586.8 SG3 644.9
 RRT -.9227 RRF .9766 RTF -.9672
 SGB 3072.6 R23 -.2056 R13 .9700
 SG1 3064.6 SG2 222.6 THA 169.77

ORBIT DETERMINATION ACCURACY

ST 1803.4 SR 332.4 SS 2326.7
 CRT -.9993 CRS -.9968 CST .9940
 LSA 2958.3 MSA 157.1 SSA 5.9
 EL1 1833.7 EL2 11.8 ALF 169.56

LAUNCH DATE NOV 29 1968

FLIGHT TIME 152.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 393.410

RL 147.55 LAL .00 LOL 66.85 VL 27.566 GAL 5.87 AZL 84.40 MCA 165.97 SMA 127.72 ECC .18520 INC 5.5998 V1 30.196
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.557 GAP -6.18 AZP 95.43 TAL 152.35 TAP 318.31 RCA 104.07 APO 151.38 V2 34.974
 RC 51.881 GL 32.17 GP -17.26 ZAL 51.79 ZAP 33.07 ETS 30.70 ZAE 153.21 ETE 303.42 ZAC 121.24 ETC 175.75 CLP -28.66

PLANETOCENTRIC CONIC

C3 25.264 VHL 5.026 CLA 38.63 RAL 7.47 RAD 6568.0 VEL 12.110 PTH 2.17 VHP 5.099 DPA -8.94 RAP 30.31 ECC 1.4158
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.55 22 6 17 4188.53 -24.31 185.15 243.07 59.00 23 16 6 3588.5 -28.23 177.78
 117.45 4 29 52 2997.63 -24.29 94.94 243.06 58.99 5 19 50 2397.6 -28.21 87.58
 62.55 22 6 17 4188.53 -24.31 185.15 243.07 59.00 23 16 6 3588.5 -28.23 177.78
 117.45 4 29 52 2997.63 -24.29 94.94 243.06 58.99 5 19 50 2397.6 -28.21 87.58
 62.55 22 6 17 4188.53 -24.31 185.15 243.07 59.00 23 16 6 3588.5 -28.23 177.78
 117.45 4 29 52 2997.63 -24.29 94.94 243.06 58.99 5 19 50 2397.6 -28.21 87.58

DIFFERENTIAL CORRECTIONS

TDE-1.4919 TRA-1.6895 TC3 .1262 BAU .1070
 RDE .4447 RRA .3964 RC3 -.2905 FAU .05485
 FDE 4.7684 FRA 3.8724 FC3-1.8795 BSP 10196
 BOE 1.5568 BRA 1.7354 BC3 .3167 FSP -2064

MID-COURSE EXECUTION ACCURACY

SGT 2997.7 SGR 822.7 SG3 696.8
 RRT -.9428 RRF .9910 RTF -.9685
 SGB 3108.5 R23 -.2122 R13 .9735
 SG1 3097.2 SG2 265.4 THA 165.38

ORBIT DETERMINATION ACCURACY

ST 1854.5 SR 535.9 SS 2508.6
 CRT -.9967 CRS -.9996 CST .9942
 LSA 3161.2 MSA 161.4 SSA 4.4
 EL1 1929.9 EL2 42.0 ALF 163.93

LAUNCH DATE NOV 29 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 400.015

RL 147.55 LAL .00 LOL 66.85 VL 27.611 GAL 5.72 AZL 83.71 MCA 169.16 SMA 128.03 ECC .18151 INC 6.2874 V1 30.196
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.578 GAP -5.64 AZP 96.18 TAL 152.42 TAP 321.58 RCA 104.79 APO 151.26 V2 34.961
 RC 53.536 GL 35.66 GP -23.05 ZAL 53.90 ZAP 38.16 ETS 35.11 ZAE 148.34 ETE 299.76 ZAC 122.22 ETC 179.61 CLP -31.30

PLANETOCENTRIC CONIC

C3 26.637 VHL 5.161 CLA 41.52 RAL 4.85 RAD 6568.1 VEL 12.166 PTH 2.18 VHP 4.989 DPA -14.02 RAP 33.18 ECC 1.4384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.27 21 36 15 4256.88 -25.42 191.72 242.40 55.99 22 47 12 3656.9 -29.69 184.50
 121.73 4 39 1 2955.47 -25.41 92.15 242.39 55.99 5 28 17 2355.5 -29.68 84.94
 58.27 21 36 15 4256.88 -25.42 191.72 242.40 55.99 22 47 12 3656.9 -29.69 184.50
 121.73 4 39 1 2955.47 -25.41 92.15 242.39 55.99 5 28 17 2355.5 -29.68 84.94
 58.27 21 36 15 4256.88 -25.42 191.72 242.40 55.99 22 47 12 3656.9 -29.69 184.50
 121.73 4 39 1 2955.47 -25.41 92.15 242.39 55.99 5 28 17 2355.5 -29.68 84.94

DIFFERENTIAL CORRECTIONS

TDE-1.6095 TRA-1.5954 TC3 .1191 BAU .1297
 RDE .7468 RRA .5256 RC3 -.3440 FAU .05484
 FDE 5.4232 FRA 3.7791 FC3-1.7825 BSP 10462
 BOE 1.7743 BRA 1.6797 BC3 .3641 FSP -2171

MID-COURSE EXECUTION ACCURACY

SGT 2967.1 SGR 1191.9 SG3 728.2
 RRT -.9525 RRF .9966 RTF -.9693
 SGB 3197.5 R23 -.2006 R13 .9784
 SG1 3179.5 SG2 338.9 THA 158.81

ORBIT DETERMINATION ACCURACY

ST 1922.5 SR 861.4 SS 2694.5
 CRT -.9946 CRS -1.0000 CST .9944
 LSA 3416.2 MSA 168.1 SSA 3.1
 EL1 2105.1 EL2 81.5 ALF 155.94

LAUNCH DATE NOV 29 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 406.596

RL 147.55 LAL .00 LOL 66.85 VL 27.651 GAL 5.58 AZL 82.46 MCA 172.34 SMA 128.30 ECC .17818 INC 7.5378 V1 30.196
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.596 GAP -5.12 AZP 97.47 TAL 152.49 TAP 324.83 RCA 105.44 APO 151.16 V2 34.948
 RC 55.282 GL 40.90 GP -32.65 ZAL 57.29 ZAP 45.60 ETS 41.49 ZAE 139.85 ETE 295.40 ZAC 122.75 ETC 186.36 CLP -33.80

PLANETOCENTRIC CONIC

C3 30.399 VHL 5.514 CLA 45.71 RAL .39 RAD 6568.2 VEL 12.320 PTH 2.22 VHP 5.117 DPA -22.51 RAP 37.98 ECC 1.5003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.49 20 55 26 4351.33 -26.22 200.85 241.69 51.11 22 7 58 3751.3 -31.05 194.00
 127.51 4 44 16 2926.97 -26.20 90.25 241.68 51.11 5 33 3 2327.0 -31.04 83.40
 52.49 20 55 26 4351.33 -26.22 200.85 241.69 51.11 22 7 58 3751.3 -31.05 194.00
 127.51 4 44 16 2926.97 -26.20 90.25 241.68 51.11 5 33 3 2327.0 -31.04 83.40
 52.49 20 55 26 4351.33 -26.22 200.85 241.69 51.11 22 7 58 3751.3 -31.05 194.00
 127.51 4 44 16 2926.97 -26.20 90.25 241.68 51.11 5 33 3 2327.0 -31.04 83.40

DIFFERENTIAL CORRECTIONS

TDE-1.8689 TRA-1.4883 TC3 .0866 BAU .1606
 RDE 1.3378 RRA .6944 RC3 -.3856 FAU .04797
 FDE 6.0181 FRA 3.2655 FC3-1.3662 BSP 11074
 BOE 2.2984 BRA 1.6423 BC3 .3952 FSP -2082

MID-COURSE EXECUTION ACCURACY

SGT 2947.3 SGR 1783.6 SG3 696.6
 RRT -.9567 RRF .9984 RTF -.9702
 SGB 3445.0 R23 -.1653 R13 .9860
 SG1 3415.7 SG2 447.9 THA 149.35

ORBIT DETERMINATION ACCURACY

ST 2052.7 SR 1424.5 SS 2839.2
 CRT -.9939 CRS -1.0000 CST .9949
 LSA 3777.8 MSA 177.4 SSA 1.8
 EL1 2495.2 EL2 129.2 ALF 145.30

LAUNCH DATE NOV 29 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 413.144

RL 147.55 LAL .00 LOL 66.85 VL 27.687 GAL 5.46 AZL 79.45 MCA 175.52 SMA 128.55 ECC .17522 INC10.5473 V1 30.196
 RP 108.47 LAP .82 LOP 242.44 VP 37.611 GAP -4.61 AZP 100.52 TAL 152.55 TAP 328.07 RCA 106.03 APO 151.08 V2 34.936
 RC 57.109 GL 49.81 GP -50.01 ZAL 63.70 ZAP 58.15 ETS 51.45 ZAE 123.56 ETE 293.31 ZAC 121.35 ETC 199.85 CLP -34.81

PLANETOCENTRIC CONIC

C3 43.622 VHL 6.605 DLA 52.14 RAL 350.67 RAD 6568.7 VEL 12.845 PTH 2.34 VHP 6.152 DPA -37.24 RAP 48.78 ECC 1.7179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.21 19 48 56 4509.66 -24.66 214.93 239.77 42.49 21 4 6 3909.7 -30.43 209.09
 135.79 4 33 12 2950.83 -24.65 90.99 239.75 42.48 5 22 23 2350.8 -30.42 85.15
 44.21 19 48 56 4509.66 -24.66 214.93 239.77 42.49 21 4 6 3909.7 -30.43 209.09
 135.79 4 33 12 2950.83 -24.65 90.99 239.75 42.48 5 22 23 2350.8 -30.42 85.15
 44.21 19 48 56 4509.66 -24.66 214.93 239.77 42.49 21 4 6 3909.7 -30.43 209.09
 135.79 4 33 12 2950.83 -24.65 90.99 239.75 42.48 5 22 23 2350.8 -30.42 85.15

DIFFERENTIAL CORRECTIONS

TDE -2.7206 TRA -1.3591 TC3 .0160 BAU .1804
 RDE 2.7270 RRA .7709 RC3 -.3090 FAU .02575
 FDE 5.8147 FRA 1.8801 FC3 -.5110 BSP 12650
 BDE 3.8520 BRA 1.5625 BC3 .3094 FSP -1514

MID-COURSE EXECUTION ACCURACY

SGT 3043.1 SGR 2636.3 SG3 496.0
 RRT -.9579 RRF .9979 RTF -.9744
 SGB 4026.2 R23 -.1023 R13 .9947
 SG1 3984.5 SG2 578.0 THA 139.27

ORBIT DETERMINATION ACCURACY

ST 2429.5 SR 2388.2 SS 2714.3
 CRT -.9948 CRS -.9998 CST .9966
 LSA 4351.8 MSA 187.3 SSA .5
 EL1 3402.2 EL2 174.1 ALF 135.49

LAUNCH DATE NOV 29 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 419.589

RL 147.55 LAL .00 LOL 66.85 VL 27.719 GAL 5.37 AZL 62.57 MCA 178.62 SMA 128.77 ECC .17274 INC27.4328 V1 30.196
 RP 108.51 LAP .64 LOP 245.62 VP 37.623 GAP -4.14 AZP 117.43 TAL 152.54 TAP 331.16 RCA 106.53 APO 151.02 V2 34.923
 RC 59.010 GL 63.32 GP -78.90 ZAL 78.30 ZAP 79.18 ETS 119.98 ZAE 90.22 ETE 353.18 ZAC 115.24 ETC 279.45 CLP 12.80

PLANETOCENTRIC CONIC

C3 202.499 VHL 14.230 DLA 56.23 RAL 323.72 RAD 6571.1 VEL 17.995 PTH 3.01 VHP 15.611 DPA -54.87 RAP 91.77 ECC 4.3326
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.16 17 46 53 4867.93 -8.01 232.60 228.33 34.15 19 8 1 4267.9 -14.60 228.38
 140.84 3 0 14 3246.34 -8.00 101.62 228.31 34.15 3 54 20 2646.3 -14.59 97.41
 39.16 17 46 53 4867.93 -8.01 232.60 228.33 34.15 19 8 1 4267.9 -14.60 228.38
 140.84 3 0 14 3246.34 -8.00 101.62 228.31 34.15 3 54 20 2646.3 -14.59 97.41
 39.16 17 46 53 4867.93 -8.01 232.60 228.33 34.15 19 8 1 4267.9 -14.60 228.38
 140.84 3 0 14 3246.34 -8.00 101.62 228.31 34.15 3 54 20 2646.3 -14.59 97.41

DIFFERENTIAL CORRECTIONS

TD -10.6042 TRA -.2642 TC3 -.2227 BAU .6580
 RDE -4.5813 RRA -.9069 RC3 -.0974 FAU -.01842
 FDE 3.5869 FRA .1093 FC3 .0787 BSP 13395
 BDE 11.5516 BRA .9446 BC3 .2431 FSP -374

MID-COURSE EXECUTION ACCURACY

SGT 4320.7 SGR 1977.6 SG3 126.5
 RRT -.9570 RRF -.9598 RTF -.9999
 SGB 4751.7 R23 .0395 R13 -.9992
 SG1 4722.7 SG2 524.8 THA 23.97

ORBIT DETERMINATION ACCURACY

ST 4270.1 SR 1855.1 SS 1948.2
 CRT .9957 CRS .9960 CST 1.0000
 LSA 5044.3 MSA 159.5 SSA .7
 EL1 4652.9 EL2 158.1 ALF 23.42

LAUNCH DATE NOV 29 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 426.348

RL 147.55 LAL .00 LOL 66.85 VL 27.748 GAL 5.24 AZL 102.93 MCA 182.01 SMA 128.97 ECC .17002 INC12.9320 V1 30.196
 RP 108.55 LAP .45 LOP 248.80 VP 37.633 GAP -3.59 AZP 77.07 TAL 152.76 TAP 334.77 RCA 107.04 APO 150.90 V2 34.911
 RC 60.976 GL -55.10 GP 75.06 ZAL 68.02 ZAP 76.37 ETS 304.63 ZAE 106.38 ETE 66.10 ZAC 87.28 ETC 139.07 CLP -23.93

PLANETOCENTRIC CONIC

C3 56.879 VHL 7.542 DLA -43.09 RAL 41.71 RAD 6569.0 VEL 13.351 PTH 2.44 VHP 10.905 DPA 70.83 RAP 316.50 ECC 1.9361
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.05 11 55 52 1828.63 18.32 35.93 290.97 129.72 12 26 21 1228.6 23.31 29.66
 123.95 19 13 30 5764.07 18.33 269.80 290.99 129.71 20 49 34 5164.1 23.32 263.52
 56.05 11 55 52 1828.63 18.32 35.93 290.97 129.72 12 26 21 1228.6 23.31 29.66
 123.95 19 13 30 5764.07 18.33 269.80 290.99 129.71 20 49 34 5164.1 23.32 263.52
 56.05 11 55 52 1828.63 18.32 35.93 290.97 129.72 12 26 21 1228.6 23.31 29.66
 123.95 19 13 30 5764.07 18.33 269.80 290.99 129.71 20 49 34 5164.1 23.32 263.52

DIFFERENTIAL CORRECTIONS

TDE -.9758 TRA -2.9194 TC3 -.0488 BAU .1575
 RDE -.0386 RRA -3.5250 RC3 .2013 FAU .00611
 FDE .2456 FRA 2.2329 FC3 -.0930 BSP 13610
 BDE .9765 BRA 4.5770 BC3 .2072 FSP -578

MID-COURSE EXECUTION ACCURACY

SGT 3127.3 SGR 3680.0 SG3 201.7
 RRT .9678 RRF -.9972 RTF -.9839
 SGB 4829.4 R23 -.0314 R13 -.9995
 SG1 4791.4 SG2 604.5 THA 49.79

ORBIT DETERMINATION ACCURACY

ST 1174.6 SR 1100.6 SS 679.8
 CRT .7922 CRS .9725 CST .9125
 LSA 1667.4 MSA 522.7 SSA .7
 EL1 1524.2 EL2 517.6 ALF 42.65

LAUNCH DATE NOV 29 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 432.790

RL 147.55 LAL .00 LOL 66.85 VL 27.773 GAL 5.17 AZL 92.92 MCA 185.14 SMA 129.14 ECC .16810 INC 2.9223 V1 30.196
 RP 108.58 LAP .26 LOP 251.98 VP 37.641 GAP -3.13 AZP 87.09 TAL 152.76 TAP 337.90 RCA 107.44 APO 150.85 V2 34.900
 RC 63.000 GL -20.38 GP 50.98 ZAL 46.41 ZAP 64.77 ETS 327.61 ZAE 131.56 ETE 77.93 ZAC 96.12 ETC 151.49 CLP -47.40

PLANETOCENTRIC CONIC

C3 16.396 VHL 4.049 DLA -9.59 RAL 29.87 RAD 6567.7 VEL 11.738 PTH 2.07 VHP 5.305 DPA 51.68 RAP 353.85 ECC 1.2698
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 1 22 1865.90 -9.87 20.50 246.99 116.68 10 32 28 1265.9 -6.21 13.73
 90.00 19 33 33 5114.15 24.84 227.29 250.80 75.95 20 58 48 4514.1 22.66 219.30
 100.00 11 17 59 1618.69 -10.86 1.80 246.47 118.02 11 44 58 1018.7 -7.03 355.11
 100.00 20 59 37 4836.59 25.92 206.57 250.48 74.56 22 20 13 4236.6 23.55 198.57
 110.00 12 15 31 1438.57 -13.47 346.60 244.93 121.72 12 39 29 838.6 -9.18 340.13
 110.00 22 18 35 4589.47 28.79 186.79 249.47 70.72 23 35 5 3989.5 25.89 178.81

DIFFERENTIAL CORRECTIONS

TDE -.4837 TRA -1.3502 TC3 .1194 BAU .2964
 RDE -.4443 RRA -2.3300 RC3 1.3470 FAU .05478
 FDE 1.0498 FRA 4.8821 FC3 -2.8926 BSP 13125
 BDE .6568 BRA 2.6929 BC3 1.3523 FSP -2034

MID-COURSE EXECUTION ACCURACY

SGT 2057.1 SGR 3572.9 SG3 651.0
 RRT .9543 RRF -.9997 RTF -.9559
 SGB 4122.8 R23 -.0675 R13 -.9975
 SG1 4087.6 SG2 537.2 THA 60.66

ORBIT DETERMINATION ACCURACY

ST 897.9 SR 1184.3 SS 1180.0
 CRT .9530 CRS .9985 CST .9683
 LSA 1884.3 MSA 225.1 SSA 3.5
 EL1 1469.9 EL2 219.2 ALF 53.20

LAUNCH DATE NOV 29 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.55 LAL .00 LOL 66.85 VL 27.794 GAL 5.11 AZL 90.51 HCA 188.31 SMA 129.30 ECC .16640 INC .5092 V1 30.196
 RP 108.62 LAP .07 LOP 255.15 VP 37.646 GAP -2.67 AZP 89.50 TAL 152.77 TAP 341.08 RCA 107.78 APO 150.81 V2 34.889
 RC 65.076 GL -3.77 GP 37.98 ZAL 42.41 ZAP 62.00 ETS 337.87 ZAE 144.46 ETE 79.25 ZAC 100.81 ETC 154.60 CLP -53.44

PLANETOCENTRIC CONIC

C3 14.011 VHL 3.743 CLA 6.01 RAL 24.15 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 4.154 DPA 39.89 RAP 2.29 ECC 1.2306
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 40 39 2320.16 -21.98 48.28 241.40 108.31 8 19 19 1720.2 -19.28 40.65
 90.00 21 8 38 4589.36 12.26 194.06 239.20 64.27 22 25 7 3989.4 8.70 187.19
 100.00 9 4 51 2048.60 -22.95 27.95 241.04 109.70 9 38 59 1448.6 -20.06 20.35
 100.00 22 27 7 4336.15 13.17 174.98 238.74 62.92 23 39 23 3736.2 9.44 168.18
 110.00 10 19 37 1814.59 -25.53 9.06 239.92 113.54 10 49 52 1214.6 -22.12 1.56
 110.00 23 28 50 4142.92 15.60 158.93 237.35 59.19 24 37 53 3542.9 11.40 152.34

DIFFERENTIAL CORRECTIONS

TDE -.4311 TRA-1.0446 TC3 .0448 BAU .2512
 RDE -.5728 RRA-1.7491 RC3 1.3406 FAU .08770
 FDE 2.4866 FRA 6.8683 FC3-5.4190 BSP 11214
 BOE .7169 BRA 2.0373 BC3 1.3413 FSP -3198

MID-COURSE EXECUTION ACCURACY

SGT 1738.3 SGR 3004.0 SG3 1032.1
 RRT .9462 RRF -.9996 RTF -.9460
 SGB 3470.7 R23 -.0794 R13 -.9964
 SG1 3435.7 SG2 491.8 THA 60.64

ORBIT DETERMINATION ACCURACY

ST 817.3 SR 1192.5 SS 1778.8
 CRT .9933 CRS .9988 CST .9977
 LSA 2290.8 MSA 79.0 SSA 10.6
 EL1 1443.6 EL2 77.9 ALF 55.64

LAUNCH DATE NOV 29 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

RL 147.55 LAL .00 LOL 66.85 VL 27.813 GAL 5.06 AZL 89.42 HCA 191.48 SMA 129.43 ECC .16498 INC .5739 V1 30.196
 RP 108.65 LAP -.11 LOP 258.33 VP 37.650 GAP -2.21 AZP 90.56 TAL 152.76 TAP 344.24 RCA 108.07 APO 150.78 V2 34.878
 RC 67.198 GL 4.29 GP 30.44 ZAL 42.44 ZAP 63.35 ETS 344.95 ZAE 152.02 ETE 82.26 ZAC 102.66 ETC 157.01 CLP -58.65

PLANETOCENTRIC CONIC

C3 13.802 VHL 3.715 CLA 13.52 RAL 21.14 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 3.665 DPA 32.52 RAP 5.17 ECC 1.2271
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 27 56 2563.05 -26.22 64.88 240.70 101.10 7 10 39 1963.0 -24.42 56.59
 90.00 21 57 20 4339.89 4.54 179.80 236.11 62.02 23 9 40 3739.9 .76 173.16
 100.00 7 56 22 2277.87 -27.33 43.56 240.44 102.61 8 34 20 1677.9 -25.31 35.34
 100.00 23 11 36 4100.31 5.53 161.64 235.56 60.58 24 19 56 3500.3 1.57 155.09
 110.00 9 20 32 2014.52 -30.24 22.69 239.56 106.75 9 54 6 1414.5 -27.66 14.45
 110.00 0 7 51 3936.41 8.11 147.62 233.98 56.68 1 13 28 3336.4 3.67 141.35

DIFFERENTIAL CORRECTIONS

TDE -.3662 TRA -.8131 TC3 -.0827 BAU .2159
 RDE -.5905 RRA-1.4279 RC3 1.1670 FAU .10998
 FDE 3.8299 FRA 8.2203 FC3-6.8985 BSP 9618
 BOE .6948 BRA 1.6431 BC3 1.1699 FSP -4055

MID-COURSE EXECUTION ACCURACY

SGT 1409.2 SGR 2590.5 SG3 1313.6
 RRT .9264 RRF -.9992 RTF -.9258
 SGB 2949.0 R23 -.0838 R13 -.9957
 SG1 2910.9 SG2 472.3 THA 62.47

ORBIT DETERMINATION ACCURACY

ST 684.6 SR 1136.5 SS 2243.9
 CRT .9989 CRS .9984 CST .9996
 LSA 2606.1 MSA 56.9 SSA 16.3
 EL1 1326.5 EL2 28.0 ALF 58.95

LAUNCH DATE NOV 29 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

RL 147.55 LAL .00 LOL 66.85 VL 27.829 GAL 5.02 AZL 88.81 HCA 194.66 SMA 129.54 ECC .16383 INC 1.1945 V1 30.196
 RP 108.68 LAP -.30 LOP 261.50 VP 37.652 GAP -1.77 AZP 91.16 TAL 152.73 TAP 347.39 RCA 108.32 APO 150.76 V2 34.867
 RC 69.360 GL 8.92 GP 25.60 ZAL 43.05 ZAP 66.62 ETS 349.95 ZAE 156.83 ETE 88.19 ZAC 102.96 ETC 158.96 CLP -63.90

PLANETOCENTRIC CONIC

C3 13.908 VHL 3.729 CLA 17.79 RAL 19.32 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 3.382 DPA 27.40 RAP 5.92 ECC 1.2289
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 40 33 2720.09 -27.78 76.01 240.69 95.70 6 25 53 2120.1 -26.70 67.51
 90.00 22 30 9 4186.20 -.41 171.21 235.11 61.69 23 39 55 3586.2 -4.19 164.57
 100.00 7 12 20 2424.10 -29.06 54.08 240.53 97.34 7 52 44 1824.1 -27.74 45.52
 100.00 23 41 3 3957.42 .71 153.77 234.48 60.12 24 47 0 3357.4 -3.27 147.25
 110.00 8 43 28 2138.99 -32.34 31.78 239.89 101.74 9 19 7 1539.0 -30.38 23.11
 110.00 0 30 20 3815.30 3.53 141.23 232.72 55.98 1 33 56 3215.3 -.96 135.03

DIFFERENTIAL CORRECTIONS

TDE -.2667 TRA -.5870 TC3 -.2320 BAU .1958
 RDE -.5689 RRA-1.2226 RC3 1.0272 FAU .12709
 FDE 4.9741 FRA 9.2177 FC3-7.9109 BSP 8284
 BOE .6283 BRA 1.3562 BC3 1.0531 FSP -4761

MID-COURSE EXECUTION ACCURACY

SGT 1046.3 SGR 2289.7 SG3 1532.0
 RRT .8740 RRF -.9985 RTF -.8730
 SGB 2517.4 R23 -.0785 R13 -.9954
 SG1 2473.0 SG2 470.7 THA 67.36

ORBIT DETERMINATION ACCURACY

ST 498.6 SR 1055.8 SS 2586.1
 CRT .9994 CRS .9978 CST .9965
 LSA 2836.5 MSA 73.5 SSA 14.1
 EL1 1167.5 EL2 15.3 ALF 64.73

LAUNCH DATE NOV 29 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

RL 147.55 LAL .00 LOL 66.85 VL 27.842 GAL 5.00 AZL 88.40 HCA 197.83 SMA 129.63 ECC .16295 INC 1.5965 V1 30.196
 RP 108.72 LAP -.49 LOP 264.67 VP 37.653 GAP -1.33 AZP 91.52 TAL 152.67 TAP 350.50 RCA 108.51 APO 150.75 V2 34.858
 RC 71.560 GL 11.89 GP 22.22 ZAL 43.62 ZAP 70.92 ETS 353.62 ZAE 159.86 ETE 97.39 ZAC 102.33 ETC 160.58 CLP -69.32

PLANETOCENTRIC CONIC

C3 14.073 VHL 3.751 CLA 20.54 RAL 18.11 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 3.194 DPA 23.45 RAP 5.59 ECC 1.2316
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 48 2834.38 -28.28 84.34 240.78 91.55 5 53 2 2234.4 -27.76 75.71
 90.00 22 55 17 4077.09 -3.92 165.12 234.86 61.93 24 3 14 3477.1 -7.64 158.42
 100.00 6 40 37 2528.62 -29.72 61.77 240.71 93.35 7 22 46 1928.6 -28.94 53.05
 100.00 0 7 5 3858.09 -2.65 148.32 234.16 60.21 1 11 23 3258.1 -6.60 141.75
 110.00 8 17 34 2225.33 -33.34 38.32 240.29 98.00 8 54 39 1625.3 -31.88 29.39
 110.00 0 46 38 3734.14 .43 136.99 232.23 55.82 1 48 52 3134.1 -4.05 130.78

DIFFERENTIAL CORRECTIONS

TDE -.1365 TRA -.3536 TC3 -.4033 BAU .1885
 RDE -.5344 RRA-1.0786 RC3 .9172 FAU .14021
 FDE 5.9510 FRA10.0020 FC3-8.6252 BSP 7063
 BOE .5516 BRA 1.1351 BC3 1.0020 FSP -5330

MID-COURSE EXECUTION ACCURACY

SGT 683.8 SGR 2057.8 SG3 1707.6
 RRT .6939 RRF -.9975 RTF -.6914
 SGB 2168.5 R23 -.0561 R13 -.9960
 SG1 2114.9 SG2 479.1 THA 76.30

ORBIT DETERMINATION ACCURACY

ST 271.0 SR 972.2 SS 2848.9
 CRT .9915 CRS .9968 CST .9789
 LSA 3021.0 MSA 89.8 SSA 12.9
 EL1 1008.7 EL2 34.1 ALF 74.53

LAUNCH DATE NOV 29 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 464.932

RL 147.55 LAL .00 LOL 66.85 VL 27.852 GAL 4.99 AZL 88.12 HCA 201.00 SMA 129.70 ECC .16232 INC 1.8808 V1 30.196
 RP 108.74 LAP -.67 LOP 267.84 VP 37.652 GAP -.89 AZP 91.76 TAL 152.59 TAP 353.59 RCA 108.65 APO 150.76 V2 34.848
 RC 73.792 GL 13.96 GP 19.69 ZAL 44.08 ZAP 75.82 ETS 356.40 ZAE 161.36 ETE 109.40 ZAC 101.08 ETC 161.95 CLP -74.92

PLANETOCENTRIC CONIC

C3 14.254 VHL 3.775 DLA 22.46 RAL 17.29 RAD 6567.6 VEL 11.646 PTH 2.04 VHP 3.063 DPA 20.18 RAP 4.61 ECC 1.2346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 23 2924.54 -28.27 90.93 240.88 88.25 5 27 7 2324.5 -28.21 82.26
 90.00 23 16 8 3992.57 -6.61 160.36 234.97 62.40 24 22 40 3392.6 -10.25 153.58
 100.00 6 16 10 2609.26 -29.89 67.76 240.90 90.20 6 59 39 2009.3 -29.54 58.97
 100.00 0 24 58 3783.08 -5.18 144.18 234.19 60.52 1 28 1 3183.1 -9.07 137.56
 110.00 7 58 16 2289.82 -33.85 43.28 240.69 95.10 8 36 26 1689.8 -32.77 34.21
 110.00 0 59 21 3675.29 -1.82 133.93 232.10 55.86 2 0 36 3075.3 -6.28 127.69

DIFFERENTIAL CORRECTIONS

TOE .0203 TRA -.1099 TC3 -.5905 BAU .1944
 RDE -.4918 RRA -.9657 RC3 .8321 FAU .15090
 FDE 6.7443 FRA10.5841 FC3-9.1651 BSP 6066
 BDE .4922 BRA .9720 BC3 1.0203 FSP -5822

MID-COURSE EXECUTION ACCURACY

SGT 482.0 SGR 1861.9 SG3 1842.4
 RRT -.0189 RRF -.9961 RTF .0257
 SGB 1923.3 R23 -.0056 R13 -.9961
 SG1 1862.0 SG2 481.9 THA 90.30

ORBIT DETERMINATION ACCURACY

ST 63.7 SR 885.3 SS 3040.7
 CRT .0455 CRS .9954 CST -.0479
 LSA 3165.9 MSA 102.9 SSA 12.3
 EL1 885.3 EL2 63.6 ALF 89.81

LAUNCH DATE NOV 29 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 471.299

RL 147.55 LAL .00 LOL 66.85 VL 27.860 GAL 5.00 AZL 87.91 HCA 204.17 SMA 129.76 ECC .16195 INC 2.0931 V1 30.196
 RP 108.77 LAP -.86 LOP 271.00 VP 37.649 GAP -.47 AZP 91.91 TAL 152.47 TAP 356.65 RCA 108.75 APO 150.77 V2 34.839
 RC 76.053 GL 15.47 GP 17.67 ZAL 44.41 ZAP 81.11 ETS 358.57 ZAE 161.42 ETE 122.60 ZAC 99.44 ETC 163.10 CLP -80.66

PLANETOCENTRIC CONIC

C3 14.449 VHL 3.801 DLA 23.88 RAL 16.72 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 2.976 DPA 17.30 RAP 3.22 ECC 1.2378
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 38 2999.98 -27.99 96.43 240.99 85.51 5 5 38 2400.0 -28.32 87.78
 90.00 23 34 22 3923.13 -8.78 156.41 235.31 62.97 24 39 45 3323.1 -12.34 149.54
 100.00 5 56 26 2674.95 -29.81 72.64 241.11 87.63 6 41 1 2075.0 -29.82 63.84
 100.00 0 40 11 3723.39 -7.17 140.87 234.44 60.90 1 42 14 3123.4 -11.00 134.17
 110.00 7 43 19 2340.59 -34.08 47.23 241.10 92.78 8 22 19 1740.6 -33.32 38.07
 110.00 1 9 48 3630.51 -3.53 131.59 232.19 55.98 2 10 18 3030.5 -7.97 125.31

DIFFERENTIAL CORRECTIONS

TOE .1975 TRA .1422 TC3 -.7928 BAU .2116
 RDE -.4457 RRA -.8725 RC3 .7560 FAU .15798
 FDE 7.3692 FRA10.9892 FC3-9.4658 BSP 5380
 BDE .4875 BRA .8840 BC3 1.0954 FSP -6178

MID-COURSE EXECUTION ACCURACY

SGT 711.9 SGR 1688.2 SG3 1938.3
 RRT -.7352 RRF -.9941 RTF .7445
 SGB 1832.2 R23 .0658 R13 -.9921
 SG1 1773.6 SG2 459.3 THA 108.51

ORBIT DETERMINATION ACCURACY

ST 306.5 SR 798.6 SS 3180.4
 CRT -.9425 CRS .9933 CST -.9744
 LSA 3291.4 MSA 113.5 SSA 12.1
 EL1 849.9 EL2 96.2 ALF 110.16

LAUNCH DATE NOV 29 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 477.643

RL 147.55 LAL .00 LOL 66.85 VL 27.866 GAL 5.01 AZL 87.74 HCA 207.34 SMA 129.80 ECC .16182 INC 2.2586 V1 30.196
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.646 GAP -.05 AZP 92.01 TAL 152.32 TAP 359.67 RCA 108.80 APO 150.81 V2 34.831
 RC 78.340 GL 16.60 GP 15.98 ZAL 44.63 ZAP 86.60 ETS .29 ZAE 160.21 ETE 134.89 ZAC 97.55 ETC 164.06 CLP -86.47

PLANETOCENTRIC CONIC

C3 14.661 VHL 3.829 DLA 24.97 RAL 16.35 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 2.925 DPA 14.69 RAP 1.61 ECC 1.2413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 2 3066.01 -27.54 101.21 241.13 83.15 4 47 8 2466.0 -28.21 92.61
 90.00 23 50 59 3863.58 -10.60 152.99 235.80 63.59 24 55 23 3263.6 -14.07 146.02
 100.00 5 40 4 2730.60 -29.58 76.76 241.36 85.48 6 25 34 2130.6 -29.89 67.97
 100.00 0 53 34 3674.23 -8.79 138.12 234.84 61.31 1 54 48 3074.2 -12.55 131.35
 110.00 7 31 26 2382.14 -34.17 50.47 241.53 90.86 8 11 8 1782.1 -33.68 41.26
 110.00 1 18 41 3595.45 -4.86 129.75 232.44 56.12 2 18 36 2995.5 -9.27 123.44

DIFFERENTIAL CORRECTIONS

TOE .3903 TRA .3997 TC3-1.0001 BAU .2381
 RDE -.3951 RRA -.7896 RC3 .6896 FAU .16244
 FDE 7.7902 FRA11.1874 FC3-9.5922 BSP 5252
 BDE .5554 BRA .8850 BC3 1.2148 FSP -6440

MID-COURSE EXECUTION ACCURACY

SGT 1167.4 SGR 1525.5 SG3 1990.7
 RRT -.9038 RRF -.9912 RTF .9152
 SGB 1921.0 R23 .1129 R13 -.9858
 SG1 1877.6 SG2 405.9 THA 126.66

ORBIT DETERMINATION ACCURACY

ST 617.0 SR 709.0 SS 3262.2
 CRT -.9669 CRS .9901 CST -.9930
 LSA 3392.7 MSA 122.5 SSA 11.9
 EL1 932.3 EL2 119.7 ALF 130.90

LAUNCH DATE NOV 29 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 483.965

RL 147.55 LAL .00 LOL 66.85 VL 27.870 GAL 5.05 AZL 87.61 HCA 210.51 SMA 129.83 ECC .16193 INC 2.3921 V1 30.196
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.642 GAP .37 AZP 92.06 TAL 152.14 TAP 2.65 RCA 108.81 APO 150.85 V2 34.824
 RC 80.651 GL 17.47 GP 14.52 ZAL 44.74 ZAP 92.18 ETS 1.68 ZAE 158.04 ETE 144.98 ZAC 95.55 ETC 164.84 CLP -92.26

PLANETOCENTRIC CONIC

C3 14.897 VHL 3.860 DLA 25.83 RAL 16.13 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 2.906 DPA 12.29 RAP 359.90 ECC 1.2452
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 38 37 3125.98 -26.98 105.51 241.31 81.07 4 30 43 2526.0 -27.94 96.97
 90.00 0 10 34 3810.74 -12.18 149.91 236.43 64.24 1 14 4 3210.7 -15.55 142.85
 100.00 5 26 12 2779.12 -29.27 80.33 241.66 83.62 6 12 31 2179.1 -29.84 71.58
 100.00 1 5 39 3632.83 -10.13 135.78 235.36 61.73 2 6 12 3032.8 -13.83 128.94
 110.00 7 21 54 2417.12 -34.18 53.20 242.02 89.25 8 2 11 1817.1 -33.90 43.97
 110.00 1 26 27 3567.59 -5.91 128.28 232.80 56.27 2 25 54 2967.6 -10.31 121.94

DIFFERENTIAL CORRECTIONS

TOE .5915 TRA .6578 TC3-1.2082 BAU .2711
 RDE -.3424 RRA -.7149 RC3 .6275 FAU .16362
 FDE 8.0171 FRA11.1951 FC3-9.5089 BSP 5735
 BDE .6835 BRA .9714 BC3 1.3614 FSP -6570

MID-COURSE EXECUTION ACCURACY

SGT 1678.6 SGR 1372.2 SG3 2001.0
 RRT -.9451 RRF -.9871 RTF .9601
 SGB 2168.1 R23 .1155 R13 -.9839
 SG1 2139.3 SG2 351.7 THA 141.06

ORBIT DETERMINATION ACCURACY

ST 936.9 SR 619.3 SS 3296.0
 CRT -.9681 CRS .9852 CST -.9967
 LSA 3479.6 MSA 130.4 SSA 11.9
 EL1 1115.5 EL2 130.3 ALF 146.87

LAUNCH DATE NOV 29 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

RL 147.55 LAL .00 LOL 66.85 VL 27.872 GAL 5.09 AZL 87.50 MCA 213.68 SMA 129.84 ECC .16227 INC 2.5025 V1 30.196
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.637 GAP .78 AZP 92.08 TAL 151.92 TAP 5.60 RCA 108.77 APO 150.91 V2 34.816
 RC 82.981 GL 18.14 GP 13.23 ZAL 44.77 ZAP 97.73 ETS 2.79 ZAE 155.28 ETE 152.69 ZAC 93.55 ETC 165.44 CLP -97.94

PLANETOCENTRIC CONIC

C3 15.163 VHL 3.894 OLA 26.52 RAL 16.03 RAD 6567.6 VEL 11.685 PTH 2.06 VHP 2.915 DPA 10.09 RAP 358.19 ECC 1.2495
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 42 3182.25 -26.32 109.50 241.55 79.17 4 15 44 2582.2 -27.55 101.04
 90.00 0 25 42 3762.38 -13.60 147.06 237.17 64.92 1 28 25 3162.4 -16.87 139.91
 100.00 5 14 20 2822.35 -28.90 83.49 242.03 82.00 6 1 22 2222.3 -29.70 74.78
 100.00 1 16 45 3597.51 -11.26 133.77 235.98 62.13 2 16 43 2997.5 -14.91 126.87
 110.00 7 14 13 2447.24 -34.12 55.55 242.57 87.85 7 55 0 1847.2 -34.04 46.31
 110.00 1 33 21 3545.38 -6.75 127.11 233.27 56.41 2 32 27 2945.4 -11.12 120.74

DIFFERENTIAL CORRECTIONS

TDE .7959 TRA .9125 TC3-1.4089 BAU .3080
 RDE -.2889 RRA -.6467 RC3 .5688 FAU .16160
 FDE 8.0637 FRA11.0278 FC3-9.2266 BSP 6697
 BDE .8467 BRA 1.1184 BC3 1.5193 FSP -6572

MID-COURSE EXECUTION ACCURACY

SGT 2197.0 SGR 1228.0 SG3 1972.6
 RRT -.9562 RRF -.9813 RTF .9767
 SGB 2516.9 R23 .0943 R13 -.9855
 SG1 2496.9 SG2 316.4 THA 151.38

ORBIT DETERMINATION ACCURACY

ST 1255.0 SR 531.7 SS 3288.4
 CRT -.9619 CRS .9772 CST -.9980
 LSA 3557.0 MSA 137.2 SSA 11.8
 EL1 1356.3 EL2 134.4 ALF 157.60

LAUNCH DATE NOV 29 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

RL 147.55 LAL .00 LOL 66.85 VL 27.871 GAL 5.16 AZL 87.40 MCA 216.84 SMA 129.84 ECC .16285 INC 2.5961 V1 30.196
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.631 GAP 1.19 AZP 92.08 TAL 151.67 TAP 8.51 RCA 108.70 APO 150.98 V2 34.810
 RC 85.328 GL 18.65 GP 12.06 ZAL 44.72 ZAP 103.15 ETS 3.68 ZAE 152.23 ETE 158.41 ZAC 91.65 ETC 165.90 CLP-103.46

PLANETOCENTRIC CONIC

C3 15.462 VHL 3.932 OLA 27.08 RAL 16.04 RAD 6567.6 VEL 11.698 PTH 2.06 VHP 2.952 DPA 8.07 RAP 356.58 ECC 1.2545
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 7 41 3236.80 -25.57 113.31 241.83 77.40 4 1 38 2636.8 -27.05 104.96
 90.00 0 40 48 3716.63 -14.90 144.34 238.04 65.64 1 42 45 3116.6 -18.07 137.09
 100.00 5 4 7 2861.46 -28.49 86.33 242.47 80.56 5 51 49 2261.5 -29.50 77.67
 100.00 1 27 3 3567.20 -12.22 132.03 236.70 62.51 2 26 31 2967.2 -15.81 125.07
 110.00 7 8 4 2473.62 -34.04 57.61 243.20 86.64 7 49 18 1873.6 -34.13 48.36
 110.00 1 39 36 3527.81 -7.41 126.17 233.83 56.53 2 38 24 2927.8 -11.76 119.78

DIFFERENTIAL CORRECTIONS

TDE .9973 TRA 1.1600 TC3-1.5972 BAU .3469
 RDE -.2357 RRA -.5848 RC3 .5143 FAU .15694
 FDE 7.9450 FRA10.7134 FC3-8.7872 BSP 7944
 BDE 1.0247 BRA 1.2991 BC3 1.6780 FSP -6467

MID-COURSE EXECUTION ACCURACY

SGT 2700.5 SGR 1094.3 SG3 1910.9
 RRT -.9556 RRF -.9731 RTF .9842
 SGB 2913.8 R23 .0704 R13 -.9879
 SG1 2898.3 SG2 300.6 THA 158.59

ORBIT DETERMINATION ACCURACY

ST 1561.2 SR 447.8 SS 3243.4
 CRT -.9484 CRS .9638 CST -.9986
 LSA 3624.5 MSA 143.6 SSA 11.8
 EL1 1618.3 EL2 137.0 ALF 164.67

LAUNCH DATE NOV 29 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

RL 147.55 LAL .00 LOL 66.85 VL 27.870 GAL 5.23 AZL 87.32 MCA 220.01 SMA 129.83 ECC .16366 INC 2.6767 V1 30.196
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.624 GAP 1.60 AZP 92.05 TAL 151.38 TAP 11.39 RCA 108.58 APO 151.07 V2 34.804
 RC 87.691 GL 19.03 GP 11.00 ZAL 44.60 ZAP 108.37 ETS 4.40 ZAE 149.09 ETE 162.64 ZAC 89.92 ETC 166.22 CLP-108.73

PLANETOCENTRIC CONIC

C3 15.801 VHL 3.975 OLA 27.54 RAL 16.15 RAD 6567.6 VEL 11.713 PTH 2.06 VHP 3.013 DPA 6.26 RAP 355.12 ECC 1.2600
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 52 56 3291.85 -24.70 117.11 242.16 75.69 3 47 48 2691.9 -26.42 108.87
 90.00 0 56 25 3671.37 -16.15 141.60 239.03 66.42 1 57 37 3071.4 -19.21 134.26
 100.00 4 55 21 2897.24 -28.07 88.91 242.99 79.27 5 43 38 2297.2 -29.26 80.31
 100.00 1 36 42 3541.21 -13.03 130.52 237.50 62.86 2 35 43 2941.2 -16.57 123.52
 110.00 7 3 14 2497.03 -33.93 59.43 243.90 85.57 7 44 51 1897.0 -34.17 50.19
 110.00 1 45 18 3514.18 -7.92 125.45 234.47 56.64 2 43 52 2914.2 -12.26 119.04

DIFFERENTIAL CORRECTIONS

TDE 1.1937 TRA 1.3997 TC3-1.7641 BAU .3852
 RDE -.1849 RRA -.5297 RC3 .4621 FAU .14928
 FDE 7.7132 FRA10.3009 FC3-8.1788 BSP 9277
 BDE 1.2080 BRA 1.4966 BC3 1.8236 FSP -6232

MID-COURSE EXECUTION ACCURACY

SGT 3178.8 SGR 973.3 SG3 1825.2
 RRT -.9479 RRF -.9615 RTF .9880
 SGB 3324.5 R23 .0521 R13 -.9897
 SG1 3311.1 SG2 297.6 THA 163.68

ORBIT DETERMINATION ACCURACY

ST 1851.6 SR 371.3 SS 3176.1
 CRT -.9241 CRS .9409 CST -.9989
 LSA 3692.1 MSA 149.2 SSA 11.8
 EL1 1883.3 EL2 139.5 ALF 169.44

LAUNCH DATE NOV 29 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

RL 147.55 LAL .00 LOL 66.85 VL 27.866 GAL 5.32 AZL 87.25 MCA 223.17 SMA 129.80 ECC .16470 INC 2.7473 V1 30.196
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.617 GAP 2.00 AZP 92.00 TAL 151.05 TAP 14.22 RCA 108.42 APO 151.18 V2 34.799
 RC 90.065 GL 19.31 GP 10.05 ZAL 44.40 ZAP 113.34 ETS 4.97 ZAE 146.00 ETE 165.78 ZAC 88.41 ETC 166.42 CLP-113.72

PLANETOCENTRIC CONIC

C3 16.183 VHL 4.023 OLA 27.92 RAL 16.34 RAD 6567.6 VEL 11.729 PTH 2.07 VHP 3.096 DPA 4.65 RAP 353.87 ECC 1.2663
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 37 17 3351.08 -23.64 121.13 242.50 73.94 3 33 8 2751.1 -25.62 113.01
 90.00 1 13 37 3622.98 -17.45 138.64 240.18 67.34 2 14 0 3023.0 -20.37 131.19
 100.00 4 47 52 2930.16 -27.63 91.25 243.60 78.11 5 36 42 2330.2 -28.99 82.71
 100.00 1 45 44 3519.14 -13.72 129.24 238.39 63.18 2 44 23 2919.1 -17.21 122.19
 110.00 6 59 32 2518.04 -33.81 61.06 244.69 84.61 7 41 30 1918.0 -34.18 51.83
 110.00 1 50 33 3504.02 -8.30 124.91 235.21 56.72 2 48 57 2904.0 -12.63 118.48

DIFFERENTIAL CORRECTIONS

TDE 1.3799 TRA 1.6280 TC3-1.9111 BAU .4232
 RDE -.1360 RRA -.4801 RC3 .4163 FAU .14067
 FDE 7.3748 FRA 9.8023 FC3-7.5253 BSP 10650
 BDE 1.3865 BRA 1.6974 BC3 1.9559 FSP -5958

MID-COURSE EXECUTION ACCURACY

SGT 3621.2 SGR 865.2 SG3 1720.7
 RRT -.9341 RRF -.9454 RTF .9903
 SGB 3723.1 R23 .0391 R13 -.9911
 SG1 3710.9 SG2 301.5 THA 167.33

ORBIT DETERMINATION ACCURACY

ST 2117.6 SR 302.5 SS 3082.9
 CRT -.8802 CRS .8997 CST -.9991
 LSA 3749.1 MSA 154.6 SSA 11.8
 EL1 2134.4 EL2 142.4 ALF 172.80

LAUNCH DATE NOV 29 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 515.241

RL 147.55 LAL .00 LOL 66.85 VL 27.861 GAL 5.43 AZL 87.19 MCA 226.34 SMA 129.77 ECC .16597 INC 2.8101 V1 30.196
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.609 GAP 2.40 AZP 91.94 TAL 150.69 TAP 17.03 RCA 108.23 APO 151.31 V2 34.795
 RC 92.449 GL 19.49 GP 9.19 ZAL 44.15 ZAP 118.02 ETS 5.43 ZAE 143.05 ETE 168.14 ZAC 87.16 ETC 166.54 CLP-118.41

PLANETOCENTRIC CONIC

C3 16.612 VHL 4.076 DLA 28.22 RAL 16.62 RAD 6567.7 VEL 11.747 PTH 2.07 VHP 3.199 DPA 3.25 RAP 352.84 ECC 1.2734
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 16 40 3427.78 -22.10 126.22 242.75 71.84 3 13 47 2827.8 -24.38 118.29
 90.00 1 36 26 3558.24 -19.10 134.61 241.59 68.69 2 35 45 2958.2 -21.83 127.00
 100.00 4 41 35 2960.51 -27.18 93.40 244.30 77.06 5 30 55 2360.5 -28.69 84.92
 100.00 1 54 12 3500.74 -14.28 128.16 239.36 63.46 2 52 33 2900.7 -17.73 121.07
 110.00 6 56 52 2537.04 -33.68 62.53 245.57 83.75 7 39 9 1937.0 -34.17 53.32
 110.00 1 55 24 3496.98 -8.57 124.53 236.02 56.78 2 53 41 2897.0 -12.88 118.09

DIFFERENTIAL CORRECTIONS

TDE 1.5552 TRA 1.8464 TC3-2.0338 BAU .4593
 RDE -.0902 RRA -.4366 RC3 .3751 FAU .13093
 FDE 6.9770 FRA 9.2672 FC3-6.8236 BSP 11973
 BDE 1.5578 BRA 1.8973 BC3 2.0681 FSP -5626

MID-COURSE EXECUTION ACCURACY

SGT 4025.7 SGR 771.3 SG3 1606.5
 RRT -.9135 RRF -.9235 RTF .9915
 SGB 4098.9 R23 .0305 R13 -.9920
 SG1 4087.2 SG2 309.1 THA 170.02

ORBIT DETERMINATION ACCURACY

ST 2358.6 SR 244.6 SS 2975.8
 CRT -.8013 CRS .0248 CST -.9992
 LSA 3801.6 MSA 159.8 SSA 11.8
 EL1 2366.8 EL2 145.8 ALF 175.23

LAUNCH DATE NOV 29 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 521.427

RL 147.55 LAL .00 LOL 66.85 VL 27.855 GAL 5.55 AZL 87.13 MCA 229.50 SMA 129.72 ECC .16747 INC 2.8666 V1 30.196
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.601 GAP 2.80 AZP 91.86 TAL 150.29 TAP 19.79 RCA 108.00 APO 151.45 V2 34.791
 RC 94.840 GL 19.59 GP 8.41 ZAL 43.83 ZAP 122.39 ETS 5.81 ZAE 140.29 ETE 169.93 ZAC 86.19 ETC 166.59 CLP-122.79

PLANETOCENTRIC CONIC

C3 17.093 VHL 4.134 DLA 28.47 RAL 16.97 RAD 6567.7 VEL 11.768 PTH 2.08 VHP 3.321 DPA 2.06 RAP 352.06 ECC 1.2813
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.88 1 31 53 3584.00 -20.62 137.11 243.06 69.92 2 31 37 2984.0 -23.17 129.35
 93.12 2 23 59 3415.15 -20.61 124.74 243.05 69.90 3 20 55 2815.2 -23.16 116.99
 100.00 4 36 28 2988.44 -26.74 95.36 245.09 76.12 5 26 17 2388.4 -28.39 86.94
 100.00 2 2 5 3483.94 -14.73 127.29 240.41 63.69 3 0 11 2885.9 -18.14 120.17
 110.00 6 55 8 2554.36 -33.54 63.86 246.54 82.97 7 37 43 1954.4 -34.15 54.67
 110.00 1 59 54 3492.78 -8.72 124.31 236.90 56.82 2 58 7 2892.8 -13.03 117.86

DIFFERENTIAL CORRECTIONS

TDE 1.7193 TRA 2.0558 TC3-2.1318 BAU .4932
 RDE -.0477 RRA -.3989 RC3 .3386 FAU .12072
 FDE 6.5496 FRA 8.7215 FC3-6.1141 BSP 13223
 BDE 1.7199 BRA 2.0941 BC3 2.1585 FSP -5271

MID-COURSE EXECUTION ACCURACY

SGT 4391.9 SGR 691.5 SG3 1489.0
 RRT -.8854 RRF -.8947 RTF .9922
 SGB 4446.0 R23 .0246 R13 -.9925
 SG1 4434.6 SG2 318.3 THA 172.02

ORBIT DETERMINATION ACCURACY

ST 2574.0 SR 200.1 SS 2860.9
 CRT -.6629 CRS .6915 CST -.9992
 LSA 3850.0 MSA 164.7 SSA 11.8
 EL1 2577.4 EL2 149.6 ALF 177.04

LAUNCH DATE NOV 29 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 527.590

RL 147.55 LAL .00 LOL 66.85 VL 27.847 GAL 5.68 AZL 87.08 MCA 232.66 SMA 129.67 ECC .16920 INC 2.9179 V1 30.196
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.592 GAP 3.21 AZP 91.77 TAL 149.86 TAP 22.52 RCA 107.73 APO 151.61 V2 34.788
 RC 97.236 GL 19.63 GP 7.71 ZAL 43.46 ZAP 126.46 ETS 6.12 ZAE 137.75 ETE 171.30 ZAC 85.49 ETC 166.60 CLP-126.85

PLANETOCENTRIC CONIC

C3 17.631 VHL 4.199 DLA 28.67 RAL 17.38 RAD 6567.7 VEL 11.790 PTH 2.08 VHP 3.459 DPA 1.06 RAP 351.52 ECC 1.2902
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.29 1 20 24 3633.64 -20.59 140.73 244.01 69.59 2 20 58 3033.6 -23.18 132.99
 94.71 2 38 46 3379.86 -20.58 122.14 244.01 69.58 3 35 6 2779.9 -23.17 114.40
 100.00 4 32 31 3013.96 -26.31 97.13 245.99 75.28 5 22 45 2414.0 -28.08 88.78
 100.00 2 9 20 3474.77 -15.06 126.63 241.52 63.87 3 7 15 2874.8 -18.45 119.48
 110.00 6 54 15 2570.25 -33.40 65.08 247.61 82.27 7 37 5 1970.2 -34.11 55.91
 110.00 2 4 6 3491.25 -8.78 124.23 237.87 56.83 3 2 17 2891.2 -13.09 117.78

DIFFERENTIAL CORRECTIONS

TDE 1.8726 TRA 2.2577 TC3-2.2049 BAU .5247
 RDE -.0084 RRA -.3662 RC3 .3062 FAU .11036
 FDE 6.1150 FRA 8.1860 FC3-5.4191 BSP 14381
 BDE 1.8726 BRA 2.2872 BC3 2.2260 FSP -4904

MID-COURSE EXECUTION ACCURACY

SGT 4720.9 SGR 625.0 SG3 1372.7
 RRT -.8491 RRF -.8577 RTF .9926
 SGB 4762.1 R23 .0204 R13 -.9928
 SG1 4750.8 SG2 328.0 THA 173.56

ORBIT DETERMINATION ACCURACY

ST 2764.4 SR 171.4 SS 2742.6
 CRT -.4428 CRS .4766 CST -.9993
 LSA 3894.2 MSA 169.3 SSA 11.9
 EL1 2765.4 EL2 153.6 ALF 178.42

LAUNCH DATE NOV 29 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 533.728

RL 147.55 LAL .00 LOL 66.85 VL 27.839 GAL 5.84 AZL 87.03 MCA 235.82 SMA 129.61 ECC .17117 INC 2.9651 V1 30.196
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.584 GAP 3.61 AZP 91.67 TAL 149.39 TAP 25.21 RCA 107.42 APO 151.79 V2 34.786
 RC 99.636 GL 19.60 GP 7.09 ZAL 43.04 ZAP 130.24 ETS 6.38 ZAE 135.43 ETE 172.37 ZAC 85.05 ETC 166.58 CLP-130.62

PLANETOCENTRIC CONIC

C3 18.232 VHL 4.270 DLA 28.83 RAL 17.86 RAD 6567.7 VEL 11.816 PTH 2.09 VHP 3.612 DPA .25 RAP 351.22 ECC 1.3000
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.36 1 14 39 3666.16 -20.51 143.09 245.06 69.29 2 15 45 3066.2 -23.14 135.37
 95.64 2 48 20 3362.95 -20.50 120.87 245.06 69.27 3 44 22 2763.0 -23.13 113.15
 100.00 4 29 45 3037.02 -25.90 98.72 246.98 74.53 5 20 22 2437.0 -27.77 90.42
 100.00 2 15 54 3467.32 -15.29 126.19 242.69 63.99 3 13 42 2867.3 -18.66 119.02
 110.00 6 54 9 2584.90 -33.26 66.20 248.76 81.62 7 37 14 1984.9 -34.06 57.05
 110.00 2 8 0 3492.20 -8.74 124.28 238.90 56.82 3 6 12 2892.2 -13.05 117.83

DIFFERENTIAL CORRECTIONS

TDE 2.0182 TRA 2.4569 TC3-2.2489 BAU .5523
 RDE .0276 RRA -.3383 RC3 .2769 FAU .09976
 FDE 5.6969 FRA 7.6836 FC3-4.7374 BSP 15380
 BDE 2.0184 BRA 2.4801 BC3 2.2659 FSP -4517

MID-COURSE EXECUTION ACCURACY

SGT 5018.5 SGR 570.7 SG3 1261.9
 RRT -.8043 RRF -.8123 RTF .9927
 SGB 5050.8 R23 .0172 R13 -.9928
 SG1 5039.5 SG2 337.7 THA 174.75

ORBIT DETERMINATION ACCURACY

ST 2934.7 SR 159.9 SS 2627.9
 CRT -.1610 CRS .1979 CST -.9993
 LSA 3938.7 MSA 173.7 SSA 12.0
 EL1 2934.8 EL2 157.9 ALF 179.50

LAUNCH DATE NOV 29 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 15 1969

MELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 27.829 GAL 6.01 AZL 86.99 HCA 238.98 SMA 129.54 ECC .17340 INC 3.0089 V1 30.196
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.575 GAP 4.02 AZP 91.55 TAL 148.89 TAP 27.87 RCA 107.08 APO 152.00 V2 34.784
 RC 102.038 GL 19.52 GP 6.54 ZAL 42.57 ZAP 133.74 ETS 6.61 ZAE 133.34 ETE 173.21 ZAC 84.87 ETC 166.55 CLP-134.10

PLANETOCENTRIC CONIC
 C3 18.901 VHL 4.347 OLA 28.94 RAL 18.39 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 3.779 DPA -.38 RAP 351.14 ECC 1.3111
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.75 1 11 51 3690.47 -20.38 144.83 246.20 68.99 2 13 21 3090.5 -23.06 137.13
 96.25 2 55 22 3355.55 -20.37 120.27 246.20 68.98 3 51 18 2755.6 -23.04 112.57
 100.00 4 28 11 3057.49 -25.52 100.13 248.08 73.89 5 19 9 2457.5 -27.49 91.88
 100.00 2 21 43 3463.77 -15.39 125.98 243.92 64.05 3 19 27 2863.8 -18.76 118.81
 110.00 6 54 46 2598.49 -33.12 67.24 250.01 81.02 7 38 5 1998.5 -34.01 58.11
 110.00 2 11 37 3495.53 -8.62 124.46 240.00 56.79 3 9 53 2895.5 -12.93 118.01

MID-COURSE EXECUTION ACCURACY
 SGT 5280.6 SGR 527.1 SG3 1156.3
 RRT -.7508 RRF -.7583 RTF .9927
 SGB 5306.8 R23 .0147 R13 -.9928
 SGI 5295.4 SG2 347.2 TMA 175.70

ORBIT DETERMINATION ACCURACY
 ST 3078.6 SR 163.4 SS 2510.6
 CRT .1182 CRS -.0812 CST -.9993
 LSA 3971.8 MSA 178.0 SSA 12.2
 EL1 3078.6 EL2 162.2 ALF .36

DIFFERENTIAL CORRECTIONS
 TDE 2.1516 TRA 2.6497 TC3-2.2772 BAU .5789
 RDE .0614 RRA -.3138 RC3 .2520 FAU .09024
 FDE 5.2861 FRA 7.2026 FC3-4.1334 BSP 16349
 BOE 2.1525 BRA 2.6682 BC3 2.2911 FSP -4169

LAUNCH DATE NOV 29 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 17 1969

MELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 27.818 GAL 6.19 AZL 86.95 HCA 242.14 SMA 129.46 ECC .17587 INC 3.0498 V1 30.196
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.566 GAP 4.43 AZP 91.43 TAL 148.36 TAP 30.50 RCA 106.69 APO 152.23 V2 34.783
 RC 104.441 GL 19.39 GP 6.04 ZAL 42.06 ZAP 136.99 ETS 6.83 ZAE 131.45 ETE 173.88 ZAC 84.92 ETC 166.50 CLP-137.33

PLANETOCENTRIC CONIC
 C3 19.645 VHL 4.432 OLA 29.02 RAL 18.97 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 3.958 DPA -.86 RAP 351.28 ECC 1.3233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.37 1 11 5 3709.60 -20.21 146.16 247.43 68.72 2 12 54 3109.6 -22.92 138.49
 96.63 3 0 48 3354.69 -20.20 120.14 247.42 68.71 3 56 43 2754.7 -22.91 112.46
 100.00 4 27 52 3075.26 -25.18 101.34 249.28 73.34 5 19 7 2475.3 -27.22 93.13
 100.00 2 26 43 3464.26 -15.38 126.01 245.21 64.05 3 24 27 2864.3 -18.74 118.84
 110.00 6 56 4 2611.17 -32.98 68.20 251.35 80.46 7 39 35 2011.2 -33.95 59.09
 110.00 2 15 0 3501.12 -8.41 124.75 241.17 56.75 3 13 21 2901.1 -12.73 118.32

MID-COURSE EXECUTION ACCURACY
 SGT 5515.0 SGR 492.8 SG3 1058.5
 RRT -.6897 RRF -.6965 RTF .9926
 SGB 5536.9 R23 .0125 R13 -.9926
 SGI 5525.5 SG2 356.1 TMA 176.46

ORBIT DETERMINATION ACCURACY
 ST 3203.4 SR 177.0 SS 2397.8
 CRT .3353 CRS -.3000 CST -.9993
 LSA 4001.2 MSA 182.2 SSA 12.3
 EL1 3204.0 EL2 166.7 ALF 1.06

DIFFERENTIAL CORRECTIONS
 TDE 2.2778 TRA 2.8416 TC3-2.2837 BAU .6028
 RDE .0930 RRA -.2925 RC3 .2296 FAU .08119
 FDE 4.9020 FRA 6.7601 FC3-3.5780 BSP 17216
 BOE 2.2797 BRA 2.8567 BC3 2.2952 FSP -3837

LAUNCH DATE NOV 29 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 19 1969

MELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 27.806 GAL 6.40 AZL 86.91 HCA 245.31 SMA 129.38 ECC .17861 INC 3.0885 V1 30.196
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.557 GAP 4.85 AZP 91.29 TAL 147.79 TAP 33.10 RCA 106.27 APO 152.48 V2 34.783
 RC 106.844 GL 19.21 GP 5.60 ZAL 41.51 ZAP 140.00 ETS 7.04 ZAE 129.75 ETE 174.42 ZAC 85.19 ETC 166.46 CLP-140.33

PLANETOCENTRIC CONIC
 C3 20.473 VHL 4.525 OLA 29.07 RAL 19.60 RAD 6567.8 VEL 11.910 PTH 2.12 VHP 4.150 DPA -1.20 RAP 351.61 ECC 1.3369
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.15 1 11 54 3724.91 -20.00 147.20 248.73 68.45 2 13 59 3124.9 -22.75 139.55
 96.85 3 5 2 3359.03 -19.98 120.37 248.73 68.44 4 1 1 2759.0 -22.73 112.72
 100.00 4 28 47 3090.28 -24.89 102.35 250.59 72.88 5 20 17 2490.3 -26.99 94.19
 100.00 2 30 50 3468.90 -15.24 126.29 246.53 63.97 3 28 39 2868.9 -18.61 119.12
 110.00 6 57 59 2623.06 -32.84 69.10 252.78 79.95 7 41 42 2023.1 -33.88 60.02
 110.00 2 18 8 3508.88 -8.12 125.17 242.40 56.68 3 16 36 2908.9 -12.45 118.75

MID-COURSE EXECUTION ACCURACY
 SGT 5723.1 SGR 466.3 SG3 968.4
 RRT -.6226 RRF -.6286 RTF .9923
 SGB 5742.1 R23 .0106 R13 -.9923
 SGI 5730.5 SG2 364.4 TMA 177.08

ORBIT DETERMINATION ACCURACY
 ST 3309.2 SR 195.8 SS 2289.3
 CRT .4851 CRS -.4522 CST -.9993
 LSA 4024.3 MSA 186.1 SSA 12.4
 EL1 3310.6 EL2 171.2 ALF 1.65

DIFFERENTIAL CORRECTIONS
 TDE 2.3964 TRA 3.0337 TC3-2.2724 BAU .6246
 RDE .1227 RRA -.2738 RC3 .2095 FAU .07282
 FDE 4.5448 FRA 6.3544 FC3-3.0792 BSP 18005
 BOE 2.3995 BRA 3.0460 BC3 2.2820 FSP -3528

LAUNCH DATE NOV 29 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 21 1969

MELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 66.85 VL 27.793 GAL 6.62 AZL 86.87 HCA 248.47 SMA 129.28 ECC .18163 INC 3.1252 V1 30.196
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.548 GAP 5.27 AZP 91.15 TAL 147.20 TAP 35.67 RCA 105.80 APO 152.77 V2 34.784
 RC 109.246 GL 18.99 GP 5.21 ZAL 40.92 ZAP 142.79 ETS 7.24 ZAE 128.23 ETE 174.86 ZAC 85.65 ETC 166.43 CLP-143.11

PLANETOCENTRIC CONIC
 C3 21.392 VHL 4.625 OLA 29.08 RAL 20.28 RAD 6567.9 VEL 11.949 PTH 2.13 VHP 4.354 DPA -1.41 RAP 352.11 ECC 1.3521
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.08 1 14 2 3737.25 -19.74 148.01 250.12 68.20 2 16 19 3137.3 -22.53 140.38
 96.92 3 8 17 3367.77 -19.72 120.90 250.12 68.19 4 4 25 2767.8 -22.51 113.28
 100.00 4 30 56 3102.58 -24.64 103.18 252.01 72.51 5 22 39 2502.6 -26.80 95.05
 100.00 2 34 4 3477.68 -14.97 126.81 247.90 63.82 3 32 2 2877.7 -18.37 119.66
 110.00 7 0 28 2634.29 -32.71 69.95 254.30 79.46 7 44 22 2034.3 -33.81 60.89
 110.00 2 21 1 3518.73 -7.75 125.69 243.69 56.60 3 19 40 2918.7 -12.09 119.29

MID-COURSE EXECUTION ACCURACY
 SGT 5908.7 SGR 446.2 SG3 886.3
 RRT -.5513 RRF -.5564 RTF .9920
 SGB 5925.5 R23 .0088 R13 -.9920
 SGI 5913.8 SG2 371.9 TMA 177.61

ORBIT DETERMINATION ACCURACY
 ST 3398.6 SR 216.7 SS 2185.9
 CRT .5852 CRS -.5544 CST -.9993
 LSA 4042.2 MSA 190.0 SSA 12.5
 EL1 3400.9 EL2 175.6 ALF 2.14

DIFFERENTIAL CORRECTIONS
 TDE 2.5092 TRA 3.2284 TC3-2.2441 BAU .6441
 RDE .1510 RRA -.2571 RC3 .1913 FAU .06510
 FDE 4.2158 FRA 5.9865 FC3-2.6344 BSP 18723
 BOE 2.5137 BRA 3.2386 BC3 2.2522 FSP -3242

LAUNCH DATE NOV 29 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 564.021

RL 147.55 LAL .00 LOL 66.85 VL 27.779 GAL 6.87 AZL 86.84 MCA 251.63 SMA 129.19 ECC .18494 INC 3.1604 VI 30.196
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.539 GAP 5.70 AZP 91.00 TAL 146.59 TAP 38.21 RCA 105.30 APO 153.08 V2 34.785
 RC 111.645 GL 18.73 GP 4.86 ZAL 40.29 ZAP 145.40 ETS 7.46 ZAE 126.87 ETE 175.22 ZAC 86.29 ETC 166.40 CLP-145.70

PLANETOCENTRIC CONIC

C3 22.414 VHL 4.734 DLA 29.07 RAL 20.99 RAD 6567.9 VEL 11.991 PTH 2.14 VHP 4.570 DPA -1.50 RAP 352.77 ECC 1.3689
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.14 1 17 21 3747.03 -19.44 148.60 251.59 67.96 2 19 48 3147.0 -22.27 141.00
 96.86 3 10 40 3380.55 -19.43 121.72 251.58 67.95 4 7 0 2780.6 -22.25 114.12
 100.00 4 34 15 3112.34 -24.44 103.84 253.54 72.22 5 26 7 2512.3 -26.64 95.73
 100.00 2 36 27 3490.47 -14.59 127.56 249.31 63.62 3 34 37 2890.5 -18.02 120.44
 110.00 7 3 29 2644.98 -32.57 70.75 255.91 79.00 7 47 34 2045.0 -33.74 61.71
 110.00 2 23 42 3530.60 -7.31 126.32 245.04 56.51 3.22 32 2930.6 -11.66 119.93

DIFFERENTIAL CORRECTIONS

TDE 2.6202 TRA 3.4303 TC3-2.1951 BAU .6598
 RDE .1779 RRA -.2421 RC3 .1742 FAU .05768
 FDE 3.9213 FRA 5.6597 FC3-2.2279 BSP 19290
 BOE 2.6262 BRA 3.4389 BC3 2.2020 FSP -2964

MID-COURSE EXECUTION ACCURACY

SGT 6077.5 SGR 431.2 SG3 812.3
 RRT -.4777 RRF -.4816 RTF .9916
 SGB 6092.8 R23 .0069 R13 -.9916
 SG1 6081.0 SG2 378.6 THA 178.05

ORBIT DETERMINATION ACCURACY

ST 3477.0 SR 237.7 SS 2091.2
 CRT .6525 CRS -.6237 CST -.9993
 LSA 4059.8 MSA 193.6 SSA 12.6
 EL1 3480.5 EL2 180.0 ALF 2.56

LAUNCH DATE NOV 29 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 569.990

RL 147.55 LAL .00 LOL 66.85 VL 27.764 GAL 7.13 AZL 86.81 MCA 254.79 SMA 129.09 ECC .18855 INC 3.1943 VI 30.196
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.530 GAP 6.14 AZP 90.84 TAL 145.95 TAP 40.73 RCA 104.75 APO 153.43 V2 34.787
 RC 114.042 GL 18.44 GP 4.55 ZAL 39.64 ZAP 147.83 ETS 7.69 ZAE 125.64 ETE 175.53 ZAC 87.08 ETC 166.37 CLP-148.12

PLANETOCENTRIC CONIC

C3 23.549 VHL 4.853 DLA 29.03 RAL 21.74 RAD 6568.0 VEL 12.039 PTH 2.15 VHP 4.797 DPA -1.49 RAP 353.57 ECC 1.3876
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.33 1 21 49 3754.29 -19.11 148.99 253.13 67.72 2 24 23 3154.3 -21.97 141.43
 96.67 3 12 10 3397.36 -19.10 122.81 253.12 67.71 4 8 47 2797.4 -21.95 115.25
 100.00 4 38 37 3119.87 -24.28 104.34 255.17 72.00 5 30 37 2519.9 -26.51 96.25
 100.00 2 38 2 3507.01 -14.09 128.53 250.75 63.36 3 36 29 2907.0 -17.55 121.45
 110.00 7 7 0 2655.22 -32.44 71.52 257.60 78.57 7 51 15 2055.2 -33.67 62.50
 110.00 2 26 9 3544.43 -6.79 127.06 246.45 56.42 3 25 14 2944.4 -11.16 120.69

DIFFERENTIAL CORRECTIONS

TDE 2.7237 TRA 3.6341 TC3-2.1397 BAU .6755
 RDE .2042 RRA -.2279 RC3 .1588 FAU .05128
 FDE 3.6465 FRA 5.3585 FC3-1.8854 BSP 19884
 BOE 2.7313 BRA 3.6413 BC3 2.1456 FSP -2726

MID-COURSE EXECUTION ACCURACY

SGT 6223.7 SGR 420.2 SG3 744.4
 RRT -.4034 RRF -.4063 RTF .9912
 SGB 6237.9 R23 .0053 R13 -.9912
 SG1 6226.1 SG2 384.4 THA 178.43

ORBIT DETERMINATION ACCURACY

ST 3537.3 SR 258.2 SS 1998.4
 CRT .6997 CRS -.6725 CST -.9993
 LSA 4066.2 MSA 197.0 SSA 12.7
 EL1 3541.9 EL2 184.2 ALF 2.93

LAUNCH DATE NOV 29 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 575.924

RL 147.55 LAL .00 LOL 66.85 VL 27.749 GAL 7.42 AZL 86.77 MCA 257.95 SMA 128.98 ECC .19249 INC 3.2272 VI 30.196
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.521 GAP 6.60 AZP 90.67 TAL 145.28 TAP 43.23 RCA 104.15 APO 153.81 V2 34.790
 RC 116.435 GL 18.35 GP 4.27 ZAL 38.96 ZAP 150.11 ETS 7.94 ZAE 124.55 ETE 175.79 ZAC 88.01 ETC 166.35 CLP-150.39

PLANETOCENTRIC CONIC

C3 24.812 VHL 4.981 DLA 28.96 RAL 22.52 RAD 6568.0 VEL 12.091 PTH 2.16 VHP 5.036 DPA -1.39 RAP 354.50 ECC 1.4083
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.64 1 27 26 3758.96 -18.74 149.17 254.74 67.50 2 30 5 3159.0 -21.63 141.64
 96.36 3 12 44 3418.30 -18.72 124.19 254.73 67.49 4 9 43 2818.3 -21.61 116.66
 100.00 4 43 55 3125.53 -24.16 104.72 256.90 71.84 5 36 1 2525.5 -26.41 96.65
 100.00 2 38 57 3526.96 -13.47 129.70 252.22 63.06 3 37 44 2927.0 -16.98 122.66
 110.00 7 10 57 2665.12 -32.30 72.26 259.37 78.15 7 55 22 2065.1 -33.59 63.27
 110.00 2 28 24 3560.14 -6.19 127.89 247.91 56.32 3 27 44 2960.1 -10.58 121.54

DIFFERENTIAL CORRECTIONS

TDE 2.8250 TRA 3.8463 TC3-2.0706 BAU .6885
 RDE .2297 RRA -.2145 RC3 .1444 FAU .04537
 FDE 3.5979 FRA 5.0890 FC3-1.5830 BSP 20400
 BOE 2.8343 BRA 3.8522 BC3 2.0757 FSP -2506

MID-COURSE EXECUTION ACCURACY

SGT 6354.8 SGR 412.3 SG3 683.2
 RRT -.3298 RRF -.3316 RTF .9908
 SGB 6368.2 R23 .0038 R13 -.9908
 SG1 6356.3 SG2 389.2 THA 178.77

ORBIT DETERMINATION ACCURACY

ST 3586.6 SR 277.5 SS 1911.8
 CRT .7335 CRS -.7076 CST -.9993
 LSA 4068.8 MSA 200.3 SSA 12.8
 EL1 3592.4 EL2 188.3 ALF 3.26

LAUNCH DATE NOV 29 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 581.822

RL 147.55 LAL .00 LOL 66.85 VL 27.733 GAL 7.73 AZL 86.74 MCA 261.11 SMA 128.87 ECC .19678 INC 3.2593 VI 30.196
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.513 GAP 7.06 AZP 90.50 TAL 144.60 TAP 45.71 RCA 103.51 APO 154.23 V2 34.794
 RC 118.823 GL 17.77 GP 4.02 ZAL 38.25 ZAP 152.26 ETS 8.22 ZAE 123.56 ETE 176.01 ZAC 89.06 ETC 166.34 CLP-152.53

PLANETOCENTRIC CONIC

C3 26.218 VHL 5.120 DLA 28.88 RAL 23.32 RAD 6568.1 VEL 12.149 PTH 2.18 VHP 5.287 DPA -1.20 RAP 355.54 ECC 1.4315
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.09 1 34 18 3760.78 -18.33 149.13 256.42 67.29 2 36 58 3160.8 -21.25 141.63
 95.91 3 12 17 3443.69 -18.31 125.88 256.42 67.28 4 9 41 2843.7 -21.24 118.38
 100.00 4 50 0 3129.76 -24.07 105.00 258.72 71.72 5 42 10 2529.8 -26.34 96.94
 100.00 2 39 16 3549.95 -12.76 131.03 253.73 62.74 3 38 26 2950.0 -16.32 124.04
 110.00 7 15 19 2674.77 -32.16 72.98 261.22 77.75 7 59 53 2074.8 -33.52 64.01
 110.00 2 30 26 3577.70 -5.53 128.81 249.42 56.21 3 30 4 2977.7 -9.93 122.49

DIFFERENTIAL CORRECTIONS

TDE 2.9235 TRA 4.0666 TC3-1.9922 BAU .6998
 RDE .2547 RRA -.2015 RC3 .1308 FAU .04000
 FDE 3.1720 FRA 4.8467 FC3-1.3208 BSP 20886
 BOE 2.9346 BRA 4.0716 BC3 1.9964 FSP -2307

MID-COURSE EXECUTION ACCURACY

SGT 6470.6 SGR 406.8 SG3 627.7
 RRT -.2579 RRF -.2586 RTF .9903
 SGB 6483.4 R23 .0023 R13 -.9903
 SG1 6471.5 SG2 393.0 THA 179.07

ORBIT DETERMINATION ACCURACY

ST 3624.4 SR 295.4 SS 1830.3
 CRT .7584 CRS -.7336 CST -.9993
 LSA 4065.9 MSA 203.3 SSA 12.8
 EL1 3631.3 EL2 192.2 ALF 3.55

LAUNCH DATE NOV 29 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 587.678

RL 147.55 LAL .00 LOL 66.85 VL 27.717 GAL 8.07 AZL 86.71 MCA 264.28 SMA 128.76 ECC .20145 INC 3.2909 V1 30.196
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.505 GAP 7.54 AZP 90.33 TAL 143.90 TAP 48.18 RCA 102.82 APO 154.69 V2 34.798
 RC 121.206 GL 17.39 GP 3.80 ZAL 37.53 ZAP 154.28 ETS 8.52 ZAE 122.67 ETE 176.21 ZAC 90.22 ETC 166.33 CLP-154.54

PLANETOCENTRIC CONIC

C3 27.784 VHL 5.271 DLA 28.77 RAL 24.14 RAD 6568.1 VEL 12.213 PTH 2.19 VHP 5.552 DPA -.94 RAP 356.67 ECC 1.4573
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.71 1 42 37 3758.97 -17.88 148.80 258.17 67.09 2 45 15 3159.0 -20.83 141.33
 95.29 3 10 32 3474.34 -17.87 127.94 258.16 67.08 4 8 27 2874.3 -20.82 120.47
 100.00 4 56 44 3132.94 -24.00 105.21 260.63 71.62 5 48 57 2532.9 -26.29 97.16
 100.00 2 39 6 3575.61 -11.96 132.51 255.28 62.40 3 38 41 2975.6 -15.56 125.57
 110.00 7 20 2 2684.27 -32.02 73.69 263.15 77.35 8 4 46 2084.3 -33.43 64.74
 110.00 2 32 17 3597.04 -4.80 129.83 250.98 56.11 3 32 14 2997.0 -9.22 123.53

DIFFERENTIAL CORRECTIONS

TOE 3.0210 TRA 4.2979 TC3-1.9039 BAU .7086
 ROE -.2794 RRA -.1886 RC3 .1180 FAU .03507
 FDE 2.9678 FRA 4.6302 FC3-1.0927 BSP 21310
 BOE 3.0339 BRA 4.3020 BC3 1.9076 FSP -2125

MID-COURSE EXECUTION ACCURACY

SGT 6573.8 SGR 403.0 SG3 577.6
 RRT -.1882 RRF -.1878 RTF .9899
 SGB 6586.1 R23 .0009 R13 -.9899
 SGI 6574.2 SG2 395.8 THA 179.34

ORBIT DETERMINATION ACCURACY

ST 3652.8 SR 311.8 SS 1754.2
 CRT .7772 CRS -.7533 CST -.9993
 LSA 4058.9 MSA 206.0 SSA 12.8
 EL1 3660.8 EL2 195.8 ALF 3.81

LAUNCH DATE NOV 29 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 593.491

RL 147.55 LAL .00 LOL 66.85 VL 27.700 GAL 8.43 AZL 86.68 MCA 267.44 SMA 128.64 ECC .20652 INC 3.3222 V1 30.196
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.497 GAP 8.03 AZP 90.15 TAL 143.19 TAP 50.63 RCA 102.07 APO 155.20 V2 34.803
 RC 123.581 GL 16.99 GP 3.60 ZAL 36.79 ZAP 156.20 ETS 8.87 ZAE 121.87 ETE 176.39 ZAC 91.48 ETC 166.32 CLP-156.46

PLANETOCENTRIC CONIC

C3 29.534 VHL 5.434 DLA 28.63 RAL 24.98 RAD 6568.2 VEL 12.284 PTH 2.21 VHP 5.830 DPA -.62 RAP 357.89 ECC 1.4861
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.56 1 52 55 3751.76 -17.40 148.05 259.98 66.89 2 55 27 3151.8 -20.38 140.62
 94.44 3 6 56 3512.06 -17.39 130.49 259.97 66.88 4 5 28 2912.1 -20.37 123.06
 100.00 5 3 59 3135.45 -23.95 105.38 262.63 71.55 5 56 14 2535.4 -26.24 97.34
 100.00 2 38 33 3603.60 -11.07 134.11 256.86 62.05 3 38 37 3003.6 -14.72 127.23
 110.00 7 25 5 2693.70 -31.88 74.38 265.16 76.96 8 9 59 2093.7 -33.35 65.46
 110.00 2 33 56 3618.11 -4.00 130.94 252.59 56.02 3 34 14 3018.1 -8.43 124.65

DIFFERENTIAL CORRECTIONS

TDE 3.1208 TRA 4.5439 TC3-1.8048 BAU .7138
 RDE .3039 RRA -.1755 RC3 .1059 FAU .03042
 FDE 2.7864 FRA 4.4394 FC3 -.8916 BSP 21624
 BOE 3.1356 BRA 4.5473 BC3 1.8079 FSP -1951

MID-COURSE EXECUTION ACCURACY

SGT 6668.3 SGR 400.4 SG3 532.7
 RRT -.1207 RRF -.1193 RTF .9894
 SGB 6680.3 R23 -.0005 R13 -.9894
 SGI 6668.4 SG2 397.5 THA 179.58

ORBIT DETERMINATION ACCURACY

ST 3675.7 SR 326.6 SS 1685.0
 CRT .7917 CRS -.7688 CST -.9993
 LSA 4051.3 MSA 208.5 SSA 12.8
 EL1 3684.8 EL2 199.0 ALF 4.04

LAUNCH DATE NOV 29 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 599.254

RL 147.55 LAL .00 LOL 66.85 VL 27.682 GAL 8.83 AZL 86.65 MCA 270.60 SMA 128.52 ECC .21203 INC 3.3533 V1 30.196
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.489 GAP 8.55 AZP 89.96 TAL 142.46 TAP 53.07 RCA 101.27 APO 155.77 V2 34.808
 RC 125.948 GL 16.57 GP 3.42 ZAL 36.04 ZAP 158.02 ETS 9.26 ZAE 121.14 ETE 176.55 ZAC 92.83 ETC 166.31 CLP-158.28

PLANETOCENTRIC CONIC

C3 31.490 VHL 5.612 DLA 28.48 RAL 25.84 RAD 6568.3 VEL 12.364 PTH 2.23 VHP 6.123 DPA -.23 RAP 359.19 ECC 1.5182
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.80 2 6 36 3734.57 -16.88 146.56 261.84 66.72 3 8 51 3134.6 -19.89 139.16
 93.20 3 0 2 3561.44 -16.87 133.88 261.84 66.71 3 59 24 2961.4 -19.88 126.49
 100.00 5 11 39 3137.58 -23.90 105.52 264.70 71.49 6 3 56 2537.6 -26.21 97.48
 100.00 2 37 41 3633.67 -10.10 135.82 258.48 61.72 3 38 15 3033.7 -13.81 128.99
 110.00 7 30 25 2703.14 -31.73 75.08 267.23 76.57 8 15 29 2103.1 -33.25 66.18
 110.00 2 35 24 3640.87 -3.13 132.13 254.24 55.94 3 36 4 3040.9 -7.58 125.87

DIFFERENTIAL CORRECTIONS

TOE 3.2173 TRA 4.7997 TC3-1.7038 BAU .7184
 RDE .3283 RRA -.1619 RC3 .0946 FAU .02634
 FDE 2.6185 FRA 4.2652 FC3 -.7241 BSP 21988
 BOE 3.2341 BRA 4.8024 BC3 1.7065 FSP -1802

MID-COURSE EXECUTION ACCURACY

SGT 6747.8 SGR 398.8 SG3 491.5
 RRT -.0559 RRF -.0537 RTF .9890
 SGB 6759.6 R23 -.0018 R13 -.9890
 SGI 6747.8 SG2 398.2 THA 179.81

ORBIT DETERMINATION ACCURACY

ST 3686.7 SR 340.0 SS 1618.4
 CRT .8032 CRS -.7811 CST -.9993
 LSA 4035.1 MSA 210.6 SSA 12.7
 EL1 3696.9 EL2 202.0 ALF 4.25

LAUNCH DATE NOV 29 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 604.963

RL 147.55 LAL .00 LOL 66.85 VL 27.664 GAL 9.25 AZL 86.62 MCA 273.77 SMA 128.39 ECC .21802 INC 3.3844 V1 30.196
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.481 GAP 9.09 AZP 89.78 TAL 141.73 TAP 55.50 RCA 100.40 APO 156.39 V2 34.815
 RC 128.306 GL 16.13 GP 3.25 ZAL 35.27 ZAP 159.76 ETS 9.70 ZAE 120.47 ETE 176.70 ZAC 94.25 ETC 166.30 CLP-160.02

PLANETOCENTRIC CONIC

C3 33.683 VHL 5.804 DLA 28.31 RAL 26.70 RAD 6568.3 VEL 12.452 PTH 2.25 VHP 6.433 DPA .20 RAP .56 ECC 1.5543
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 42 21 3646.83 -16.81 140.11 263.98 66.88 3 43 8 3046.8 -19.80 132.71
 90.00 2 31 9 3683.10 -15.83 142.32 263.54 66.21 3 32 32 3083.1 -18.91 135.00
 100.00 5 19 37 3139.59 -23.86 105.66 266.84 71.43 6 11 57 2539.6 -26.17 97.62
 100.00 2 36 34 3665.57 -9.07 137.63 260.14 61.39 3 37 40 3065.6 -12.82 130.85
 110.00 7 36 1 2712.65 -31.58 75.78 269.37 76.18 8 21 13 2112.7 -33.16 66.91
 110.00 2 36 40 3665.27 -2.20 133.40 255.93 55.88 3 37 45 3065.3 -6.66 127.16

DIFFERENTIAL CORRECTIONS

TOE 3.3148 TRA 5.0706 TC3-1.5977 BAU .7204
 ROE .3527 RRA -.1476 RC3 .0840 FAU .02260
 FDE 2.4666 FRA 4.1100 FC3 -.5808 BSP 22307
 BOE 3.3335 BRA 5.0727 BC3 1.5999 FSP -1666

MID-COURSE EXECUTION ACCURACY

SGT 6817.4 SGR 397.7 SG3 454.1
 RRT .0064 RRF .0092 RTF .9886
 SGB 6829.0 R23 .0029 R13 .9886
 SGI 6817.4 SG2 397.7 THA .02

ORBIT DETERMINATION ACCURACY

ST 3690.8 SR 351.8 SS 1556.5
 CRT .8124 CRS -.7911 CST -.9993
 LSA 4015.3 MSA 212.4 SSA 12.6
 EL1 3701.9 EL2 204.5 ALF 4.44

LAUNCH DATE NOV 30 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 8 1969

HELIOCENTRIC CONIC

DISTANCE 127.751

RL 147.52 LAL -1.00 LOL 67.86 VL 15.463 GAL 31.21 AZL 87.39 HCA 34.06 SMA 85.07 ECC .81412 INC 2.6112 VI 30.202
 RP 107.57 LAP 1.46 LOP 101.89 VP 30.122 GAP -52.98 AZP 87.84 TAL 171.68 TAP 205.74 RCA 15.81 APO 154.32 V2 35.229
 RC 89.765 GL -1.83 GP -1.56 ZAL 63.99 ZAP 35.54 ETS 177.58 ZAE 131.69 ETE 185.50 ZAC 53.59 ETC 160.15 CLP 35.53

PLANETOCENTRIC CONIC

C3 357.749 VHL 18.914 CLA 3.22 RAL 2.84 RAD 6572.0 VEL 21.887 PTH 3.23 VHP 29.412 DPA -18.98 RAP 320.98 ECC 6.8876
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 46 2908.37 -28.30 89.75 269.29 88.84 7 21 14 2308.4 -28.16 81.08
 90.00 19 18 35 5352.69 27.70 244.14 265.87 83.90 20 47 48 4752.7 26.57 235.66
 100.00 7 55 36 2641.15 -29.88 70.13 269.32 88.95 8 39 37 2041.2 -29.70 61.33
 100.00 20 38 26 5095.14 29.28 225.01 265.68 83.68 22 3 21 4495.1 28.09 216.40
 110.00 9 7 18 2416.76 -34.18 53.17 269.40 89.26 9 47 35 1816.8 -33.90 43.94
 110.00 21 43 14 4892.29 33.55 209.03 265.10 83.02 23 4 46 4292.3 32.22 200.05

DIFFERENTIAL CORRECTIONS

TOE -1.9190 TRA-2.1844 TC3 -1.1093 BAU .5241
 RDE -1.3326 RRA .6942 RC3 -.0083 FAU .01099
 FDE .3826 FRA .7481 FC3 -.0266 BSP 1997
 BDE 1.6188 BRA 2.2920 BC3 .1096 FSP -48

MID-COURSE EXECUTION ACCURACY

SGT 829.2 SGR 456.4 SG3 23.7
 RRT -.0376 RRF .0334 RTF -.6210
 SGB 946.5 R23 .0001 R13 .6211
 SG1 829.5 SG2 455.9 THA 178.30

ORBIT DETERMINATION ACCURACY

ST 342.3 SR 408.6 SS 341.7
 CRT .7137 CRS .7733 CST .9943
 LSA 592.2 MSA 223.4 SSA 14.0
 EL1 494.9 EL2 197.9 ALF 52.00

LAUNCH DATE NOV 30 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 10 1969

HELIOCENTRIC CONIC

DISTANCE 133.135

RL 147.52 LAL -1.00 LOL 67.86 VL 16.265 GAL 29.69 AZL 87.30 HCA 37.30 SMA 86.47 ECC .78832 INC 2.6952 VI 30.202
 RP 107.55 LAP 1.63 LOP 105.13 VP 30.549 GAP -50.62 AZP 87.86 TAL 170.76 TAP 208.06 RCA 18.31 APO 154.64 V2 35.235
 RC 87.555 GL 2.10 GP -1.57 ZAL 62.62 ZAP 34.00 ETS 177.60 ZAE 131.57 ETE 185.88 ZAC 55.22 ETC 160.62 CLP 34.00

PLANETOCENTRIC CONIC

C3 328.762 VHL 18.132 CLA 4.02 RAL 3.99 RAD 6571.8 VEL 21.215 PTH 3.20 VHP 28.359 DPA -18.50 RAP 322.71 ECC 6.4106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 24 2924.09 -28.27 90.90 270.16 88.27 7 20 8 2324.1 -28.21 82.23
 90.00 19 29 11 5318.57 27.43 241.68 265.93 82.69 20 57 50 4718.6 26.14 233.25
 100.00 7 54 37 2655.65 -29.85 71.21 270.21 88.39 8 38 53 2055.6 -29.76 62.40
 100.00 20 48 39 5062.24 29.01 222.60 265.70 82.44 22 13 1 4462.2 27.66 214.06
 110.00 9 7 11 2428.55 -34.16 54.09 270.34 88.72 9 47 39 1828.5 -33.96 44.86
 110.00 21 52 34 4862.11 33.27 206.71 265.00 81.68 23 13 37 4262.1 31.77 197.81

DIFFERENTIAL CORRECTIONS

TOE -.9248 TRA-2.2062 TC3 -1.1167 BAU .5146
 RDE -1.2927 RRA .6738 RC3 -.0095 FAU .01101
 FDE .3985 FRA .7757 FC3 -.0290 BSP 2133
 BDE 1.5895 BRA 2.3068 BC3 .1171 FSP -53

MID-COURSE EXECUTION ACCURACY

SGT 867.7 SGR 462.2 SG3 25.5
 RRT -.0380 RRF .0338 RTF -.6398
 SGB 983.1 R23 .0000 R13 .6398
 SG1 867.9 SG2 461.7 THA 178.38

ORBIT DETERMINATION ACCURACY

ST 359.9 SR 413.5 SS 357.6
 CRT .7121 CRS .7741 CST .9941
 LSA 612.8 MSA 229.5 SSA 14.3
 EL1 508.2 EL2 205.6 ALF 50.53

LAUNCH DATE NOV 30 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 138.646

RL 147.52 LAL -1.00 LOL 67.86 VL 17.019 GAL 28.30 AZL 87.23 HCA 40.94 SMA 87.91 ECC .76234 INC 2.7676 VI 30.202
 RP 107.53 LAP 1.80 LOP 108.37 VP 30.963 GAP -48.40 AZP 87.90 TAL 169.85 TAP 210.39 RCA 20.89 APO 154.93 V2 35.240
 RC 85.353 GL 2.39 GP -1.58 ZAL 61.30 ZAP 32.49 ETS 177.62 ZAE 131.52 ETE 186.28 ZAC 56.88 ETC 161.08 CLP 32.49

PLANETOCENTRIC CONIC

C3 302.290 VHL 17.386 CLA 4.81 RAL 5.10 RAD 6571.7 VEL 20.582 PTH 3.17 VHP 27.342 DPA -18.00 RAP 324.46 ECC 5.9749
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 53 2939.08 -28.23 91.99 270.94 87.72 7 18 52 2339.1 -28.25 83.33
 90.00 19 39 33 5284.18 27.11 239.22 265.92 81.50 21 7 37 4684.2 25.66 230.85
 100.00 7 53 29 2669.42 -29.82 72.23 271.01 87.85 8 37 59 2069.4 -29.80 63.43
 100.00 20 58 34 5029.08 28.68 220.19 265.65 81.20 22 22 27 4429.1 27.17 211.71
 110.00 9 6 55 2439.61 -34.14 54.96 271.18 88.21 9 47 35 1839.6 -34.01 45.72
 110.00 22 1 42 4831.65 32.95 204.40 264.84 80.34 23 22 13 4231.6 31.27 195.58

DIFFERENTIAL CORRECTIONS

TOE -.9313 TRA-2.2286 TC3 -1.1244 BAU .5048
 RDE -1.2527 RRA .6527 RC3 -.0108 FAU .01104
 FDE .4148 FRA .8038 FC3 -.0316 BSP 2262
 BDE 1.5610 BRA 2.3222 BC3 .1249 FSP -58

MID-COURSE EXECUTION ACCURACY

SGT 908.1 SGR 467.4 SG3 27.5
 RRT -.0380 RRF .0341 RTF -.6579
 SGB 1021.3 R23 -.0001 R13 .6580
 SG1 908.3 SG2 466.9 THA 178.48

ORBIT DETERMINATION ACCURACY

ST 378.5 SR 417.9 SS 373.9
 CRT .7106 CRS .7750 CST .9939
 LSA 634.1 MSA 235.4 SSA 14.5
 EL1 521.9 EL2 213.2 ALF 48.97

LAUNCH DATE NOV 30 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 144.278

RL 147.52 LAL -1.00 LOL 67.86 VL 17.728 GAL 27.00 AZL 87.17 HCA 43.79 SMA 89.37 ECC .73636 INC 2.8310 VI 30.202
 RP 107.52 LAP 1.96 LOP 111.61 VP 31.364 GAP -46.29 AZP 87.96 TAL 168.93 TAP 212.72 RCA 23.56 APO 155.18 V2 35.245
 RC 83.158 GL 2.68 GP -1.60 ZAL 60.02 ZAP 31.00 ETS 177.63 ZAE 131.53 ETE 186.69 ZAC 58.56 ETC 161.51 CLP 31.00

PLANETOCENTRIC CONIC

C3 278.080 VHL 16.676 CLA 5.59 RAL 6.17 RAD 6571.6 VEL 19.985 PTH 3.14 VHP 26.359 DPA -17.48 RAP 326.22 ECC 5.5765
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 28 13 2953.35 -28.19 93.03 271.62 87.20 7 17 26 2353.3 -28.28 84.37
 90.00 19 49 41 5249.48 26.74 236.74 265.84 80.31 21 17 11 4649.5 25.13 228.45
 100.00 7 52 12 2682.47 -29.78 73.20 271.71 87.34 8 36 55 2082.5 -29.84 64.39
 100.00 21 8 24 4995.59 28.31 217.77 265.54 79.98 22 31 39 4395.6 26.64 209.37
 110.00 9 6 30 2449.95 -34.12 55.77 271.93 87.73 9 47 20 1850.0 -34.05 46.52
 110.00 22 10 35 4800.86 32.57 202.07 264.62 79.01 23 30 36 4200.9 30.72 193.35

DIFFERENTIAL CORRECTIONS

TOE -.9371 TRA-2.2504 TC3 -1.1323 BAU .4938
 RDE -1.2126 RRA .6310 RC3 -.0123 FAU .01109
 FDE .4313 FRA .8323 FC3 -.0345 BSP 2416
 BDE 1.5325 BRA 2.3372 BC3 .1328 FSP -64

MID-COURSE EXECUTION ACCURACY

SGT 949.6 SGR 471.9 SG3 29.7
 RRT -.0381 RRF .0343 RTF -.6755
 SGB 1060.4 R23 -.0002 R13 .6755
 SG1 949.9 SG2 471.5 THA 178.56

ORBIT DETERMINATION ACCURACY

ST 397.7 SR 421.7 SS 390.5
 CRT .7091 CRS .7759 CST .9936
 LSA 655.9 MSA 241.0 SSA 14.7
 EL1 536.0 EL2 220.6 ALF 47.37

LAUNCH DATE NOV 30 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 150.024

RL 147.52 LAL -.00 LOL 67.86 VL 18.396 GAL 25.79 AZL 87.11 MCA 47.04 SMA 90.85 ECC .71051 INC 2.8874 V1 30.202
 RP 107.51 LAP 2.11 LOP 114.86 VP 31.751 GAP -44.29 AZP 88.03 TAL 168.03 TAP 215.06 RCA 26.30 APO 155.39 V2 35.249
 RC 80.975 GL 2.99 GP -.62 ZAL 58.80 ZAP 29.54 ETS 177.64 ZAE 131.62 ETE 187.13 ZAC 60.27 ETC 161.92 CLP 29.53

PLANETOCENTRIC CONIC

C3 255.912 VHL 15.997 DLA 6.36 RAL 7.18 RAD 6571.5 VEL 19.422 PTH 3.10 VHP 25.407 DPA -16.94 RAP 328.00 ECC 5.2117
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 23 2966.92 -28.14 94.02 272.21 86.70 7 15 50 2366.9 -28.30 85.36
 90.00 19 59 37 5214.40 26.31 234.26 265.71 79.14 21 26 32 4614.4 24.55 226.04
 100.00 7 50 45 2694.81 -29.74 74.11 272.31 86.86 8 35 40 2094.8 -29.86 65.31
 100.00 21 17 56 4961.74 27.89 215.34 265.36 78.77 22 40 38 4361.7 26.05 207.02
 110.00 9 5 55 2459.59 -34.09 56.52 272.58 87.29 9 46 55 1859.6 -34.09 47.27
 110.00 22 19 16 4769.72 32.15 199.74 264.34 77.70 23 38 46 4169.7 30.12 191.12

DIFFERENTIAL CORRECTIONS

TDE -.9429 TRA-2.2718 TC3 -.1402 BAU .4822
 RDE-1.1723 RRA .6087 RC3 -.0139 FAU .01115
 FDE .4482 FRA .8612 FC3 -.0377 BSP 2579
 BOE 1.5045 BRA 2.3519 BC3 .1409 FSP -70

MID-COURSE EXECUTION ACCURACY

SGT 992.8 SGR 475.8 SG3 31.9
 RRT -.0379 RRF .0343 RTF -.6924
 SGB 1100.9 R23 -.0003 R13 .6925
 SG1 993.0 SG2 475.4 THA 178.65

ORBIT DETERMINATION ACCURACY

ST 417.8 SR 425.0 SS 407.5
 CRT .7076 CRS .7767 CST .9933
 LSA 678.5 MSA 246.2 SSA 14.9
 EL1 550.7 EL2 227.8 ALF 45.69

LAUNCH DATE NOV 30 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 155.877

RL 147.52 LAL -.00 LOL 67.86 VL 19.024 GAL 24.65 AZL 87.06 MCA 50.28 SMA 92.33 ECC .68492 INC 2.9380 V1 30.202
 RP 107.50 LAP 2.26 LOP 118.10 VP 32.123 GAP -42.38 AZP 88.12 TAL 167.13 TAP 217.42 RCA 29.09 APO 155.57 V2 35.253
 RC 78.802 GL 3.31 GP -.64 ZAL 57.63 ZAP 28.09 ETS 177.64 ZAE 131.79 ETE 187.58 ZAC 62.00 ETC 162.32 CLP 28.09

PLANETOCENTRIC CONIC

C3 235.596 VHL 15.349 DLA 7.12 RAL 8.15 RAD 6571.4 VEL 18.892 PTH 3.07 VHP 24.485 DPA -16.38 RAP 329.79 ECC 4.8773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 23 2979.82 -28.09 94.96 272.70 86.24 7 14 3 2379.8 -28.31 86.30
 90.00 20 9 21 5178.91 25.83 231.78 265.51 77.98 21 35 40 4578.9 23.92 223.63
 100.00 7 49 8 2706.47 -29.70 74.98 272.82 86.41 8 34 15 2106.5 -29.88 66.18
 100.00 21 27 17 4927.49 27.41 212.91 265.13 77.58 22 49 25 4327.5 25.42 204.67
 110.00 9 5 10 2468.53 -34.06 57.21 273.12 86.87 9 46 19 1868.5 -34.12 47.97
 110.00 22 27 45 4738.19 31.67 197.41 264.00 76.40 23 46 43 4138.2 29.47 188.89

DIFFERENTIAL CORRECTIONS

TDE -.9519 TRA-2.2958 TC3 -.1489 BAU .4716
 RDE-1.1320 RRA .5861 RC3 -.0156 FAU .01122
 FDE .4660 FRA .8911 FC3 -.0412 BSP 2672
 BOE 1.4791 BRA 2.3695 BC3 .1497 FSP -76

MID-COURSE EXECUTION ACCURACY

SGT 1039.8 SGR 479.0 SG3 34.4
 RRT -.0368 RRF .0339 RTF -.7086
 SGB 1144.8 R23 -.0008 R13 .7087
 SG1 1040.0 SG2 478.6 THA 178.77

ORBIT DETERMINATION ACCURACY

ST 440.0 SR 427.7 SS 425.1
 CRT .7069 CRS .7777 CST .9932
 LSA 702.9 MSA 251.0 SSA 15.1
 EL1 566.9 EL2 234.8 ALF 43.85

LAUNCH DATE NOV 30 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 161.830

RL 147.52 LAL -.00 LOL 67.86 VL 19.615 GAL 23.58 AZL 87.02 MCA 53.53 SMA 93.82 ECC .65968 INC 2.9842 V1 30.202
 RP 107.49 LAP 2.40 LOP 121.35 VP 32.479 GAP -40.57 AZP 88.23 TAL 166.25 TAP 219.78 RCA 31.93 APO 155.72 V2 35.255
 RC 76.644 GL 3.64 GP -.66 ZAL 56.50 ZAP 26.67 ETS 177.62 ZAE 132.03 ETE 188.07 ZAC 63.75 ETC 162.69 CLP 26.66

PLANETOCENTRIC CONIC

C3 216.963 VHL 14.730 DLA 7.87 RAL 9.07 RAD 6571.2 VEL 18.392 PTH 3.04 VHP 23.591 DPA -15.80 RAP 331.58 ECC 4.5707
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 22 13 2992.07 -28.03 95.85 273.10 85.79 7 12 5 2392.1 -28.32 87.20
 90.00 20 18 54 5142.96 25.30 229.28 265.25 76.84 21 44 37 4543.0 23.24 221.22
 100.00 7 47 21 2717.48 -29.65 75.79 273.23 85.98 8 32 38 2117.5 -29.89 67.00
 100.00 21 36 26 4892.79 26.88 210.47 264.84 76.40 22 57 59 4292.8 24.74 202.32
 110.00 9 4 15 2476.80 -34.02 57.86 273.57 86.49 9 45 32 1876.8 -34.14 48.61
 110.00 22 36 1 4706.23 31.13 195.08 263.60 75.11 23 54 28 4106.2 28.77 186.67

DIFFERENTIAL CORRECTIONS

TDE -.9669 TRA-2.3254 TC3 -.1589 BAU .4637
 RDE-1.0917 RRA .5632 RC3 -.0175 FAU .01126
 FDE .4850 FRA .9224 FC3 -.0449 BSP 2630
 BOE 1.4583 BRA 2.3926 BC3 .1599 FSP -81

MID-COURSE EXECUTION ACCURACY

SGT 1092.9 SGR 481.5 SG3 37.1
 RRT -.0344 RRF .0330 RTF -.7240
 SGB 1194.3 R23 -.0022 R13 .7241
 SG1 1093.0 SG2 481.2 THA 178.92

ORBIT DETERMINATION ACCURACY

ST 465.5 SR 429.8 SS 443.8
 CRT .7075 CRS .7789 CST .9931
 LSA 730.1 MSA 255.3 SSA 15.3
 EL1 585.8 EL2 241.4 ALF 41.78

LAUNCH DATE NOV 30 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 167.868

RL 147.52 LAL -.00 LOL 67.86 VL 20.171 GAL 22.56 AZL 86.97 MCA 56.78 SMA 95.31 ECC .63484 INC 3.0266 V1 30.202
 RP 107.48 LAP 2.53 LOP 124.60 VP 32.820 GAP -38.83 AZP 88.34 TAL 165.38 TAP 222.16 RCA 34.80 APO 155.82 V2 35.257
 RC 74.503 GL 3.99 GP -.68 ZAL 55.43 ZAP 25.26 ETS 177.60 ZAE 132.35 ETE 188.57 ZAC 65.52 ETC 163.05 CLP 25.25

PLANETOCENTRIC CONIC

C3 199.812 VHL 14.135 DLA 8.62 RAL 9.94 RAD 6571.1 VEL 17.920 PTH 3.00 VHP 22.723 DPA -15.20 RAP 333.38 ECC 4.2884
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 50 3003.63 -27.97 96.69 273.39 85.37 7 9 54 2403.6 -28.32 88.05
 90.00 20 28 14 5106.52 24.71 226.77 264.94 75.71 21 53 20 4506.5 22.50 218.80
 100.00 7 45 22 2727.77 -29.59 76.55 273.54 85.59 8 30 50 2127.8 -29.89 67.76
 100.00 21 45 23 4857.61 26.29 208.02 264.48 75.24 23 6 21 4257.6 24.00 199.96
 110.00 9 3 9 2484.34 -33.99 58.44 273.91 86.15 9 44 34 1884.3 -34.15 49.20
 110.00 22 44 5 4673.81 30.54 192.73 263.15 73.84 24 1 59 4073.8 28.02 184.44

DIFFERENTIAL CORRECTIONS

TDE -.8889 TRA-2.2606 TC3 -.1507 BAU .4059
 RDE-1.0522 RRA .5389 RC3 -.0198 FAU .01186
 FDE .4933 FRA .9431 FC3 -.0514 BSP 4820
 BOE 1.3774 BRA 2.3239 BC3 .1519 FSP -110

MID-COURSE EXECUTION ACCURACY

SGT 1081.7 SGR 483.6 SG3 39.6
 RRT -.0520 RRF .0373 RTF -.7424
 SGB 1184.9 R23 -.0110 R13 .7423
 SG1 1082.1 SG2 482.8 THA 178.34

ORBIT DETERMINATION ACCURACY

ST 455.3 SR 431.6 SS 453.9
 CRT .6883 CRS .7775 CST .9903
 LSA 728.9 MSA 261.0 SSA 14.9
 EL1 576.6 EL2 247.2 ALF 42.78

LAUNCH DATE NOV 30 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 174.007

RL 147.52 LAL -0.00 LOL 67.86 VL 20.694 GAL 21.59 AZL 86.93 MCA 60.02 SMA 96.80 ECC .61057 INC 3.0660 V1 30.202
 RP 107.48 LAP 2.66 LOP 127.85 VP 33.145 GAP -37.17 AZP 88.47 TAL 164.53 TAP 224.55 RCA 37.70 APO 155.90 V2 35.258
 RC 72.381 GL 4.35 GP -.70 ZAL 54.40 ZAP 23.86 ETS 177.55 ZAE 132.76 ETE 189.11 ZAC 67.31 ETC 163.39 CLP 23.85

PLANETOCENTRIC CONIC

C3 184.129 VHL 13.569 OLA 9.36 RAL 10.78 RAD 6571.0 VEL 17.477 PTH 2.96 VHP 21.884 OPA -14.59 RAP 335.19 ECC 4.0303
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 17 16 3014.73 -27.90 97.50 273.60 84.98 7 7 30 2414.7 -28.31 88.86
 90.00 20 37 27 5069.53 24.07 224.25 264.57 74.61 22 1 56 4469.5 21.72 216.37
 100.00 7 43 12 2737.58 -29.54 77.28 273.76 85.21 8 28 49 2137.6 -29.89 68.49
 100.00 21 54 12 4821.91 25.65 205.56 264.08 74.09 23 14 34 4221.9 23.22 197.60
 110.00 9 1 53 2491.34 -33.96 58.99 274.17 85.83 9 43 24 1891.3 -34.16 49.75
 110.00 22 52 0 4640.91 29.89 190.39 262.65 72.59 24 9 21 4040.9 27.22 182.22

DIFFERENTIAL CORRECTIONS

TOE -.9532 TRA-2.3375 TC3 -.1705 BAU .4231
 RDE -1.0116 RRA .5161 RC3 -.0220 FAU .01167
 FDE .5196 FRA .9817 FC3 -.0549 BSP 3612
 BOE 1.3899 BRA 2.3938 BC3 .1719 FSP -104

MID-COURSE EXECUTION ACCURACY

SGT 1173.3 SGR 484.5 SG3 42.9
 RRT -.0378 RRF .0331 RTF -.7544
 SGB 1269.4 R23 .0013 R13 .7544
 SG1 1173.5 SGT 484.1 THA 178.92

ORBIT DETERMINATION ACCURACY

ST 502.2 SR 432.2 SS 478.5
 CRT .7004 CRS .7803 CST .9919
 LSA 773.6 MSA 263.4 SSA 15.5
 EL1 612.4 EL2 253.0 ALF 38.93

LAUNCH DATE NOV 30 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 180.221

RL 147.52 LAL -0.00 LOL 67.86 VL 21.186 GAL 20.67 AZL 86.90 MCA 63.27 SMA 98.28 ECC .58685 INC 3.1029 V1 30.202
 RP 107.48 LAP 2.77 LOP 131.10 VP 33.455 GAP -35.58 AZP 88.60 TAL 163.69 TAP 226.96 RCA 40.60 APO 155.95 V2 35.259
 RC 70.281 GL 4.72 GP -.73 ZAL 53.43 ZAP 22.48 ETS 177.48 ZAE 133.25 ETE 189.68 ZAC 69.11 ETC 163.71 CLP 22.47

PLANETOCENTRIC CONIC

C3 169.696 VHL 13.027 OLA 10.10 RAL 11.56 RAD 6570.8 VEL 17.059 PTH 2.93 VHP 21.069 OPA -13.96 RAP 337.00 ECC 3.7928
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 14 28 3025.24 -27.84 98.26 273.71 84.60 7 4 53 2425.2 -28.30 89.63
 90.00 20 46 29 5031.96 23.36 221.72 264.15 73.53 22 10 21 4432.0 20.88 213.93
 100.00 7 40 49 2746.78 -29.49 77.96 273.88 84.86 8 26 35 2146.8 -29.89 69.17
 100.00 22 2 50 4785.65 24.95 203.09 263.63 72.98 23 22 36 4185.7 22.38 195.24
 110.00 9 0 24 2497.70 -33.93 59.48 274.32 85.54 9 42 2 1897.7 -34.17 50.24
 110.00 22 59 44 4607.50 29.19 188.04 262.10 71.36 24 16 31 4007.5 26.37 180.00

DIFFERENTIAL CORRECTIONS

TOE -.9652 TRA-2.3607 TC3 -.1800 BAU .4121
 RDE -.9716 RRA .4926 RC3 -.0244 FAU .01179
 FDE .5403 FRA 1.0150 FC3 -.0602 BSP 3661
 BOE 1.3695 BRA 2.4116 BC3 .1816 FSP -111

MID-COURSE EXECUTION ACCURACY

SGT 1229.8 SGR 484.9 SG3 46.3
 RRT -.0350 RRF .0316 RTF -.7679
 SGB 1321.9 R23 .0002 R13 .7679
 SG1 1229.9 SGT 484.5 THA 179.06

ORBIT DETERMINATION ACCURACY

ST 529.6 SR 432.4 SS 498.5
 CRT .7010 CRS .7817 CST .9918
 LSA 803.1 MSA 266.3 SSA 15.7
 EL1 633.2 EL2 257.9 ALF 36.88

LAUNCH DATE NOV 30 1968

FLIGHT TIME 90.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 186.511

RL 147.52 LAL -0.00 LOL 67.86 VL 21.649 GAL 19.79 AZL 86.86 MCA 66.52 SMA 99.74 ECC .56375 INC 3.1377 V1 30.202
 RP 107.48 LAP 2.88 LOP 134.35 VP 33.750 GAP -34.06 AZP 88.75 TAL 162.88 TAP 229.40 RCA 43.51 APO 155.97 V2 35.259
 RC 68.209 GL 5.11 GP -.76 ZAL 52.50 ZAP 21.12 ETS 177.39 ZAE 133.84 ETE 190.29 ZAC 70.93 ETC 164.01 CLP 21.10

PLANETOCENTRIC CONIC

C3 156.431 VHL 12.507 OLA 10.83 RAL 12.30 RAD 6570.7 VEL 16.666 PTH 2.89 VHP 20.277 OPA -13.31 RAP 338.82 ECC 3.5745
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 27 3035.26 -27.77 98.99 273.72 84.24 7 2 2 2435.3 -28.28 90.36
 90.00 20 55 23 4993.77 22.60 219.18 263.68 72.47 22 18 37 4393.8 19.99 211.48
 100.00 7 38 12 2755.45 -29.43 78.59 273.90 84.52 8 24 8 2155.5 -29.88 69.82
 100.00 22 11 19 4748.81 24.19 200.62 263.13 71.88 23 30 28 4148.8 21.49 192.86
 110.00 8 58 44 2503.48 -33.89 59.93 274.37 85.27 9 40 27 1903.5 -34.18 50.70
 110.00 23 7 17 4573.55 28.43 185.69 261.50 70.16 24 23 30 3973.5 25.46 177.78

DIFFERENTIAL CORRECTIONS

TOE -.9729 TRA-2.3780 TC3 -.1885 BAU .3983
 RDE -.9319 RRA .4691 RC3 -.0271 FAU .01197
 FDE .5614 FRA 1.0485 FC3 -.0663 BSP 3820
 BOE 1.3472 BRA 2.4239 BC3 .1904 FSP -121

MID-COURSE EXECUTION ACCURACY

SGT 1285.0 SGR 484.5 SG3 49.8
 RRT -.0328 RRF .0302 RTF -.7809
 SGB 1373.3 R23 -.0003 R13 .7810
 SG1 1285.1 SGT 484.1 THA 179.17

ORBIT DETERMINATION ACCURACY

ST 556.4 SR 431.9 SS 518.8
 CRT .7010 CRS .7830 CST .9916
 LSA 832.4 MSA 268.7 SSA 15.8
 EL1 653.7 EL2 262.2 ALF 34.97

LAUNCH DATE NOV 30 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 192.869

RL 147.52 LAL -0.00 LOL 67.86 VL 22.085 GAL 18.95 AZL 86.83 MCA 69.77 SMA 101.19 ECC .54129 INC 3.1709 V1 30.202
 RP 107.48 LAP 2.98 LOP 137.60 VP 34.030 GAP -32.60 AZP 88.90 TAL 162.08 TAP 231.85 RCA 46.42 APO 155.96 V2 35.257
 RC 66.167 GL 5.52 GP -.79 ZAL 51.63 ZAP 19.76 ETS 177.27 ZAE 134.52 ETE 190.94 ZAC 72.76 ETC 164.30 CLP 19.74

PLANETOCENTRIC CONIC

C3 144.238 VHL 12.010 OLA 11.56 RAL 12.99 RAD 6570.6 VEL 16.296 PTH 2.85 VHP 19.509 OPA -12.65 RAP 340.64 ECC 3.3738
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 8 11 3044.86 -27.71 99.68 273.63 83.90 6 58 56 2444.9 -28.26 91.06
 90.00 21 4 9 4954.93 21.78 216.63 263.17 71.45 22 26 44 4354.9 19.05 209.02
 100.00 7 35 22 2763.66 -29.38 79.20 273.83 84.21 8 21 26 2163.7 -29.87 70.43
 100.00 22 19 39 4711.35 23.37 198.13 262.58 70.82 23 38 11 4111.4 20.54 190.48
 110.00 8 56 51 2508.74 -33.86 60.34 274.33 85.04 9 38 39 1908.7 -34.18 51.11
 110.00 23 14 40 4539.04 27.61 183.35 260.86 68.99 24 30 19 3939.0 24.50 175.55

DIFFERENTIAL CORRECTIONS

TOE -.9775 TRA-2.3907 TC3 -.1961 BAU .3825
 RDE -.8925 RRA .4456 RC3 -.0300 FAU .01220
 FDE .5832 FRA 1.0828 FC3 -.0732 BSP 4061
 BOE 1.3237 BRA 2.4319 BC3 .1984 FSP -132

MID-COURSE EXECUTION ACCURACY

SGT 1339.6 SGR 483.3 SG3 53.7
 RRT -.0311 RRF .0286 RTF -.7936
 SGB 1424.1 R23 -.0003 R13 .7936
 SG1 1339.7 SGT 483.0 THA 179.26

ORBIT DETERMINATION ACCURACY

ST 582.8 SR 430.7 SS 539.5
 CRT .7006 CRS .7844 CST .9913
 LSA 861.9 MSA 270.6 SSA 15.9
 EL1 674.2 EL2 265.7 ALF 33.17

LAUNCH DATE NOV 30 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 199.291

RL 147.52 LAL -.00 LOL 67.86 VL 22.494 GAL 18.15 AZL 86.80 HCA 73.01 SMA 102.62 ECC .51953 INC 3.2027 V1 30.202
 RP 107.49 LAP 3.06 LOP 140.85 VP 34.295 GAP -31.19 AZP 89.06 TAL 161.31 TAP 234.33 RCA 49.30 APO 155.93 V2 35.256
 RC 64.161 GL 5.94 GP -.82 ZAL 50.80 ZAP 18.41 ETS 177.10 ZAE 135.30 ETE 191.64 ZAC 74.60 ETC 164.58 CLP 18.39

PLANETOCENTRIC CONIC

C3 133.033 VHL 11.534 DLA 12.28 RAL 13.63 RAD 6570.4 VEL 15.949 PTH 2.82 VMP 18.764 DPA -11.98 RAP 342.45 ECC 3.1894
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 40 3054.09 -27.64 100.35 273.45 83.57 6 55 34 2454.1 -28.24 91.74
 90.00 21 12 49 4915.41 20.91 214.06 262.60 70.45 22 34 44 4315.4 18.05 206.55
 100.00 7 32 18 2771.47 -29.32 79.77 273.66 83.91 8 18 29 2171.5 -29.86 71.01
 100.00 22 27 52 4673.26 22.50 195.64 261.98 69.78 23 45 45 4073.3 19.54 188.09
 110.00 8 54 44 2513.52 -33.84 60.71 274.19 84.82 9 36 37 1913.5 -34.18 51.48
 110.00 23 21 55 4503.98 26.73 181.00 260.18 67.85 24 36 59 3904.0 23.49 173.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.9855 TRA-2.4049 TC3 -.2043 BAU .3681 SGT 1398.8 SGR 481.3 SG3 57.9 ST 611.9 SR 428.8 SS 561.4
 ROE -.8534 RRA .4223 RC3 -.0331 FAU .01243 RRT -.0282 RRF .0266 RTF -.8054 CRT .7011 CRS .7861 CST .9911
 FOE .6065 FRA 1.1187 FC3 -.0809 BSP 4228 SGB 1479.3 R23 -.0009 R13 .8054 LSA 894.1 MSA 271.7 SSA 16.1
 BOE 1.3037 BRA 2.4417 BC3 .2070 FSP -144 SG1 1398.9 SG2 481.1 THA 179.37 EL1 697.4 EL2 268.3 ALF 31.31

LAUNCH DATE NOV 30 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 205.771

RL 147.52 LAL -.00 LOL 67.86 VL 22.879 GAL 17.38 AZL 86.77 HCA 76.26 SMA 104.02 ECC .49848 INC 3.2334 V1 30.202
 RP 107.50 LAP 3.14 LOP 144.10 VP 34.546 GAP -29.84 AZP 89.23 TAL 160.56 TAP 236.83 RCA 52.17 APO 155.88 V2 35.253
 RC 62.196 GL 6.38 GP -.86 ZAL 50.03 ZAP 17.07 ETS 176.88 ZAE 136.19 ETE 192.39 ZAC 76.45 ETC 164.83 CLP 17.05

PLANETOCENTRIC CONIC

C3 122.735 VHL 11.079 DLA 13.00 RAL 14.23 RAD 6570.3 VEL 15.623 PTH 2.78 VMP 18.040 DPA -11.30 RAP 344.27 ECC 3.0199
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 52 3063.04 -27.57 100.99 273.19 83.26 6 51 55 2463.0 -28.21 92.39
 90.00 21 21 22 4875.17 19.97 211.49 262.00 69.49 22 42 37 4275.2 17.00 204.07
 100.00 7 28 57 2778.94 -29.27 80.32 273.41 83.63 8 15 16 2178.9 -29.84 71.56
 100.00 22 35 57 4634.50 21.57 193.14 261.35 68.78 23 53 12 4034.5 18.49 185.70
 110.00 8 52 23 2517.87 -33.81 61.04 273.96 84.62 9 34 21 1917.9 -34.18 51.82
 110.00 23 29 1 4468.33 25.79 178.65 259.46 66.75 24 43 29 3868.3 22.42 171.12

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.9912 TRA-2.4148 TC3 -.2115 BAU .3521 SGT 1457.8 SGR 478.5 SG3 62.4 ST 641.0 SR 426.2 SS 583.9
 ROE -.8148 RRA .3992 RC3 -.0364 FAU .01271 RRT -.0255 RRF .0245 RTF -.8168 CRT .7015 CRS .7878 CST .9908
 FOE .6308 FRA 1.1555 FC3 -.0896 BSP 4459 SGB 1534.3 R23 -.0012 R13 .8168 LSA 926.8 MSA 272.3 SSA 16.2
 BOE 1.2831 BRA 2.4476 BC3 .2146 FSP -157 SG1 1457.9 SG2 478.3 THA 179.46 EL1 720.8 EL2 270.1 ALF 29.56

LAUNCH DATE NOV 30 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 212.303

RL 147.52 LAL -.00 LOL 67.86 VL 23.240 GAL 16.64 AZL 86.74 HCA 79.51 SMA 105.40 ECC .47816 INC 3.2633 V1 30.202
 RP 107.51 LAP 3.21 LOP 147.35 VP 34.783 GAP -28.54 AZP 89.41 TAL 159.84 TAP 239.35 RCA 55.00 APO 155.80 V2 35.250
 RC 60.278 GL 6.84 GP -.90 ZAL 49.31 ZAP 15.74 ETS 176.59 ZAE 137.19 ETE 193.20 ZAC 78.31 ETC 165.08 CLP 15.72

PLANETOCENTRIC CONIC

C3 113.272 VHL 10.643 DLA 13.72 RAL 14.78 RAD 6570.2 VEL 15.317 PTH 2.74 VMP 17.337 DPA -10.61 RAP 346.09 ECC 2.8642
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 56 46 3071.79 -27.50 101.63 272.83 82.95 6 47 58 2471.8 -28.19 93.03
 90.00 21 29 50 4834.19 18.97 208.89 261.36 68.57 22 50 24 4234.2 15.89 201.57
 100.00 7 25 20 2786.15 -29.21 80.85 273.06 83.36 8 11 47 2186.2 -29.82 72.10
 100.00 22 43 57 4595.06 20.57 190.63 260.68 67.82 24 0 32 3995.1 17.39 183.29
 110.00 8 49 48 2521.87 -33.78 61.35 273.63 84.44 9 31 50 1921.9 -34.18 52.13
 110.00 23 35 58 4432.10 24.80 176.30 258.71 65.68 24 49 50 3832.1 21.30 168.90

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.9965 TRA-2.4221 TC3 -.2180 BAU .3356 SGT 1518.1 SGR 474.9 SG3 67.3 ST 670.9 SR 422.8 SS 607.2
 ROE -.7767 RRA .3764 RC3 -.0399 FAU .01302 RRT -.0225 RRF .0221 RTF -.8276 CRT .7021 CRS .7897 CST .9906
 FOE .6565 FRA 1.1937 FC3 -.0995 BSP 4707 SGB 1590.7 R23 -.0014 R13 .8276 LSA 960.8 MSA 272.3 SSA 16.2
 BOE 1.2634 BRA 2.4512 BC3 .2216 FSP -171 SG1 1518.2 SG2 474.8 THA 179.55 EL1 745.3 EL2 271.0 ALF 27.87

LAUNCH DATE NOV 30 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 218.884

RL 147.52 LAL -.00 LOL 67.86 VL 23.580 GAL 15.94 AZL 86.71 HCA 82.75 SMA 106.75 ECC .45858 INC 3.2925 V1 30.202
 RP 107.52 LAP 3.27 LOP 150.60 VP 35.007 GAP -27.29 AZP 89.58 TAL 159.15 TAP 241.91 RCA 57.80 APO 155.70 V2 35.246
 RC 58.412 GL 7.32 GP -.95 ZAL 48.64 ZAP 14.42 ETS 176.22 ZAE 138.31 ETE 194.09 ZAC 80.17 ETC 165.30 CLP 14.38

PLANETOCENTRIC CONIC

C3 104.580 VHL 10.226 DLA 14.44 RAL 15.28 RAD 6570.0 VEL 15.031 PTH 2.71 VMP 16.656 DPA -9.91 RAP 347.90 ECC 2.7211
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 52 22 3080.44 -27.42 102.25 272.38 82.64 6 43 42 2480.4 -28.16 93.66
 90.00 21 38 14 4792.45 17.91 206.29 260.69 67.69 22 58 6 4192.4 14.73 199.06
 100.00 7 21 26 2793.20 -29.15 81.37 272.63 83.09 8 7 59 2193.2 -29.81 72.62
 100.00 22 51 51 4554.92 19.52 188.11 259.98 66.90 24 7 46 3954.9 16.23 180.87
 110.00 8 46 58 2525.58 -33.76 61.64 273.22 84.27 9 29 3 1925.6 -34.18 52.42
 110.00 23 42 48 4395.30 23.75 173.96 257.93 64.66 24 56 4 3795.3 20.13 166.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.0053 TRA-2.4307 TC3 -.2251 BAU .3206 SGT 1583.3 SGR 470.5 SG3 72.7 ST 703.9 SR 418.6 SS 632.1
 ROE -.7391 RRA .3540 RC3 -.0436 FAU .01335 RRT -.0183 RRF .0192 RTF -.8377 CRT .7037 CRS .7918 CST .9905
 FOE .6844 FRA 1.2340 FC3 -.1105 BSP 4881 SGB 1651.8 R23 -.0023 R13 .8377 LSA 998.2 MSA 271.4 SSA 16.4
 BOE 1.2477 BRA 2.4563 BC3 .2293 FSP -186 SG1 1583.3 SG2 470.4 THA 179.66 EL1 772.8 EL2 270.9 ALF 26.17

LAUNCH DATE NOV 30 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 225.506

RL 147.52 LAL -0.00 LOL 67.86 VL 23.899 GAL 15.26 AZL 86.68 MCA 86.00 SMA 108.06 ECC .43975 INC 3.3214 VI 30.202
 RP 107.53 LAP 3.31 LOP 153.85 VP 35.217 GAP -26.09 AZP 89.77 TAL 158.49 TAP 244.49 RCA 60.54 APO 155.59 V2 35.241
 RC 56.605 GL 7.81 GP -1.00 ZAL 48.02 ZAP 13.09 ETS 175.73 ZAE 139.54 ETE 195.06 ZAC 82.04 ETC 165.52 CLP 13.05

PLANETOCENTRIC CONIC

C3 96.598 VHL 9.828 DLA 15.16 RAL 15.73 RAD 6569.9 VEL 14.763 PTH 2.67 VHP 15.994 DPA -9.21 RAP 349.70 ECC 2.5898
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 37 3089.09 -27.34 102.87 271.85 82.34 6 39 6 2489.1 -28.12 94.29
 90.00 21 46 35 4749.91 16.79 203.67 259.98 66.86 23 5 44 4149.9 13.52 196.52
 100.00 7 17 13 2800.16 -29.10 81.88 272.11 82.83 8 3 53 2200.2 -29.78 73.14
 100.00 22 59 40 4514.08 18.41 185.59 259.24 66.03 24 14 54 3914.1 15.02 178.44
 110.00 8 43 51 2529.08 -33.73 61.91 272.73 84.11 9 26 0 1929.1 -34.18 52.70
 110.00 23 49 31 4357.92 22.64 171.63 257.12 63.67 25 2 9 3757.9 18.91 164.47

DIFFERENTIAL CORRECTIONS

TDE -1.0116 TRA -2.4343 TC3 -.2306 BAU .3041
 RDE -.7021 RRA .3320 RC3 -.0476 FAU .01374
 FDE .7139 FRA 1.2756 FC3 -.1231 BSP 5122
 BDE 1.2313 BRA 2.4568 BC3 .2354 FSP -203

MID-COURSE EXECUTION ACCURACY

SGT 1647.7 SGR 465.3 SG3 78.5
 RRT -.0145 RRF .0161 RTF -.8474
 SGB 1712.1 R23 -.0028 R13 .8474
 SGI 1647.7 SG2 465.2 THA 179.75

ORBIT DETERMINATION ACCURACY

ST 736.5 SR 413.7 SS 657.9
 CRT .7051 CRS .7941 CST .9903
 LSA 1036.0 MSA 270.0 SSA 16.4
 ELI 800.5 EL2 269.9 ALF 24.58

LAUNCH DATE NOV 30 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 232.166

RL 147.52 LAL -0.00 LOL 67.86 VL 24.198 GAL 14.62 AZL 86.65 MCA 89.24 SMA 109.35 ECC .42167 INC 3.3499 VI 30.202
 RP 107.53 LAP 3.35 LOP 157.10 VP 35.416 GAP -24.92 AZP 89.96 TAL 157.86 TAP 247.10 RCA 63.24 APO 155.45 V2 35.235
 RC 54.864 GL 8.33 GP -1.06 ZAL 47.45 ZAP 11.77 ETS 175.07 ZAE 140.90 ETE 196.13 ZAC 83.91 ETC 165.72 CLP 11.72

PLANETOCENTRIC CONIC

C3 89.271 VHL 9.448 DLA 15.89 RAL 16.13 RAD 6569.7 VEL 14.513 PTH 2.63 VHP 15.351 DPA -8.50 RAP 351.51 ECC 2.4692
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 31 3097.88 -27.26 103.50 271.23 82.03 6 34 9 2497.9 -28.08 94.93
 90.00 21 54 54 4706.57 15.61 201.03 259.25 66.07 23 13 20 4106.6 12.25 193.97
 100.00 7 12 40 2807.16 -29.04 82.39 271.51 82.56 7 59 27 2207.2 -29.76 73.66
 100.00 23 7 26 4472.52 17.24 183.06 258.48 65.20 24 21 58 3872.5 13.76 176.00
 110.00 8 40 27 2532.47 -33.71 62.17 272.15 83.96 9 22 40 1932.5 -34.18 52.96
 110.00 0 0 3 4319.98 21.47 169.30 256.29 62.74 1 12 3 3720.0 17.65 162.26

DIFFERENTIAL CORRECTIONS

TDE -1.0182 TRA -2.4357 TC3 -.2352 BAU .2874
 RDE -.6657 RRA .3106 RC3 -.0517 FAU .01417
 FDE .7455 FRA 1.3193 FC3 -.1374 BSP 5365
 BDE 1.2165 BRA 2.4554 BC3 .2408 FSP -221

MID-COURSE EXECUTION ACCURACY

SGT 1713.8 SGR 459.2 SG3 84.8
 RRT -.0102 RRF .0128 RTF -.8566
 SGB 1774.2 R23 -.0034 R13 .8566
 SGI 1713.8 SG2 459.2 THA 179.83

ORBIT DETERMINATION ACCURACY

ST 770.5 SR 407.9 SS 685.0
 CRT .7070 CRS .7965 CST .9902
 LSA 1075.7 MSA 267.9 SSA 16.5
 ELI 829.6 EL2 267.9 ALF 23.06

LAUNCH DATE NOV 30 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 238.859

RL 147.52 LAL -0.00 LOL 67.86 VL 24.479 GAL 14.00 AZL 86.62 MCA 92.49 SMA 110.59 ECC .40434 INC 3.3785 VI 30.202
 RP 107.57 LAP 3.38 LOP 160.35 VP 35.602 GAP -23.80 AZP 90.15 TAL 157.26 TAP 249.74 RCA 65.87 APO 155.31 V2 35.229
 RC 53.197 GL 8.86 GP -1.12 ZAL 46.94 ZAP 10.45 ETS 174.19 ZAE 142.38 ETE 197.32 ZAC 85.77 ETC 165.91 CLP 10.39

PLANETOCENTRIC CONIC

C3 82.548 VHL 9.086 DLA 16.61 RAL 16.48 RAD 6569.6 VEL 14.279 PTH 2.60 VHP 14.728 DPA -7.80 RAP 353.30 ECC 2.3585
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 1 3106.93 -27.18 104.15 270.54 81.72 6 28 48 2506.9 -28.04 95.59
 90.00 22 3 12 4662.38 14.37 198.38 258.50 65.34 23 20 55 4062.4 10.93 191.40
 100.00 7 7 45 2814.32 -28.97 82.91 270.83 82.30 7 54 40 2214.3 -29.73 74.19
 100.00 23 15 9 4430.22 16.02 180.51 257.70 64.42 24 29 0 3830.2 12.44 173.55
 110.00 8 36 46 2535.82 -33.68 62.43 271.50 83.81 9 19 2 1935.8 -34.17 53.22
 110.00 0 6 34 4281.48 20.25 166.98 255.44 61.86 1 17 56 3681.5 16.33 160.05

DIFFERENTIAL CORRECTIONS

TDE -1.0251 TRA -2.4346 TC3 -.2386 BAU .2705
 RDE -.6299 RRA .2898 RC3 -.0561 FAU .01465
 FDE .7795 FRA 1.3651 FC3 -.1536 BSP 5614
 BDE 1.2032 BRA 2.4518 BC3 .2451 FSP -242

MID-COURSE EXECUTION ACCURACY

SGT 1781.2 SGR 452.3 SG3 91.7
 RRT -.0056 RRF .0093 RTF -.8653
 SGB 1837.8 R23 -.0041 R13 .8653
 SGI 1781.2 SG2 452.3 THA 179.91

ORBIT DETERMINATION ACCURACY

ST 805.6 SR 401.4 SS 713.5
 CRT .7093 CRS .7992 CST .9900
 LSA 1117.4 MSA 265.2 SSA 16.6
 ELI 860.2 EL2 265.0 ALF 21.61

LAUNCH DATE NOV 30 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 245.581

RL 147.52 LAL -0.00 LOL 67.86 VL 24.742 GAL 13.40 AZL 86.59 MCA 95.73 SMA 111.80 ECC .38775 INC 3.4071 VI 30.202
 RP 107.59 LAP 3.39 LOP 163.60 VP 35.777 GAP -22.72 AZP 90.34 TAL 156.69 TAP 252.42 RCA 68.45 APO 155.15 V2 35.222
 RC 51.611 GL 9.42 GP -1.18 ZAL 46.49 ZAP 9.13 ETS 172.98 ZAE 143.99 ETE 198.66 ZAC 87.64 ETC 166.08 CLP 9.06

PLANETOCENTRIC CONIC

C3 76.384 VHL 8.740 DLA 17.33 RAL 16.79 RAD 6569.5 VEL 14.062 PTH 2.56 VHP 14.123 DPA -7.09 RAP 355.09 ECC 2.2571
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 31 6 3116.39 -27.08 104.82 269.78 81.39 6 23 3 2516.4 -27.99 96.28
 90.00 22 11 33 4617.32 13.08 195.70 257.72 64.66 23 28 30 4017.3 9.56 188.79
 100.00 7 2 28 2821.75 -28.90 83.45 270.08 82.02 7 49 30 2221.8 -29.71 74.74
 100.00 23 22 52 4387.19 14.73 177.96 256.90 63.69 24 35 59 3787.2 11.08 171.08
 110.00 8 32 46 2539.26 -33.66 62.70 270.78 83.65 9 15 5 1939.3 -34.17 53.49
 110.00 0 13 0 4242.45 18.98 164.66 254.57 61.02 1 23 42 3642.4 14.97 157.84

DIFFERENTIAL CORRECTIONS

TDE -1.0323 TRA -2.4311 TC3 -.2408 BAU .2536
 RDE -.5949 RRA .2696 RC3 -.0606 FAU .01518
 FDE .8164 FRA 1.4134 FC3 -.1720 BSP 5867
 BDE 1.1915 BRA 2.4460 BC3 .2483 FSP -264

MID-COURSE EXECUTION ACCURACY

SGT 1850.1 SGR 444.6 SG3 99.2
 RRT -.0007 RRF .0056 RTF -.8736
 SGB 1902.7 R23 -.0049 R13 .8736
 SGI 1850.1 SG2 444.6 THA 179.99

ORBIT DETERMINATION ACCURACY

ST 842.1 SR 394.0 SS 743.6
 CRT .7119 CRS .8020 CST .9899
 LSA 1161.2 MSA 261.7 SSA 16.6
 ELI 892.2 EL2 261.1 ALF 20.23

LAUNCH DATE NOV 30 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC
 RL 147.52 LAL -.00 LOL 67.86 VL 24.988 GAL 12.83 AZL 86.56 MCA 98.97 SMA 112.96 ECC .37191 INC 3.4361 VI 30.202
 RP 107.61 LAP 3.39 LOP 166.84 VP 35.940 GAP -21.67 AZP 90.54 TAL 156.16 TAP 255.13 RCA 70.95 APO 154.98 V2 35.215
 RC 50.116 GL 10.00 GP -1.26 ZAL 46.08 ZAP 7.81 ETS 171.26 ZAE 145.73 ETE 200.19 ZAC 89.49 ETC 166.24 CLP 7.71

DISTANCE 252.326

PLANETOCENTRIC CONIC
 C3 70.735 VHL 8.410 CLA 18.06 RAL 17.04 RAD 6569.4 VEL 13.860 PTH 2.53 VHP 13.537 DPA -6.39 RAP 356.86 ECC 2.1641
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 44 3126.44 -26.98 105.54 268.94 81.05 6 16 50 2526.4 -27.94 97.01
 90.00 22 19 56 4571.34 11.72 193.01 256.94 64.04 23 36 7 3971.3 8.14 186.16
 100.00 6 56 47 2829.61 -28.83 84.02 269.26 81.73 7 43 56 2229.6 -29.67 75.32
 100.00 23 30 34 4343.40 13.40 175.40 256.08 63.03 24 42 58 3743.4 9.67 168.59
 110.00 8 28 26 2542.88 -33.63 62.98 269.99 83.49 9 10 48 1942.9 -34.17 53.77
 110.00 0 19 21 4202.90 17.66 162.36 253.69 60.25 1 29 24 3602.9 13.57 155.63

MID-COURSE EXECUTION ACCURACY
 SGT 1920.3 SGR 436.0 SG3 107.5
 RRT .0044 RRF .0018 RTF -.8814
 SGB 1969.2 R23 .0059 R13 -.8814
 SGI 1920.3 SG2 436.0 TMA .06

ORBIT DETERMINATION ACCURACY
 ST 879.8 SR 385.7 SS 775.4
 CRT 7.150 CRS .8050 CST .9899
 LSA 1207.3 MSA 257.6 SSA 16.6
 EL1 925.8 EL2 256.3 ALF 18.91

DIFFERENTIAL CORRECTIONS
 TDE-1.0401 TRA-2.4253 TC3 -.2417 BAU .2367
 RDE -.5606 RRA .2502 RC3 -.0653 FAU .01577
 FDE .8564 FRA 1.4645 FC3 -.1930 BSP 6124
 BOE 1.1816 BRA 2.4382 BC3 .2503 FSP -.289

LAUNCH DATE NOV 30 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC
 RL 147.52 LAL -.00 LOL 67.86 VL 25.219 GAL 12.29 AZL 86.53 MCA 102.21 SMA 114.09 ECC .35679 INC 3.4656 VI 30.202
 RP 107.64 LAP 3.39 LOP 170.09 VP 36.093 GAP -20.66 AZP 90.73 TAL 155.66 TAP 257.87 RCA 73.38 APO 154.79 V2 35.207
 RC 48.721 GL 10.60 GP -1.34 ZAL 45.74 ZAP 6.50 ETS 168.71 ZAE 147.59 ETE 201.93 ZAC 91.34 ETC 166.39 CLP 6.36

DISTANCE 259.092

PLANETOCENTRIC CONIC
 C3 65.562 VHL 8.097 CLA 18.80 RAL 17.24 RAD 6569.2 VEL 13.672 PTH 2.50 VHP 12.968 DPA -5.70 RAP 358.63 ECC 2.0790
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 17 52 3137.25 -26.86 106.31 268.03 80.68 6 10 9 2537.3 -27.87 97.79
 90.00 22 28 24 4524.41 10.31 190.28 256.14 63.48 23 43 49 3924.4 6.67 183.50
 100.00 6 50 39 2838.06 -28.74 84.64 268.37 81.42 7 37 57 2238.1 -29.63 75.95
 100.00 23 38 19 4298.84 12.01 172.82 255.26 62.42 24 49 57 3698.8 8.22 166.08
 110.00 8 23 45 2546.80 -33.60 63.28 269.13 83.31 9 6 11 1946.8 -34.16 54.08
 110.00 0 25 38 4162.85 16.29 160.06 252.81 59.53 1 35 1 3562.9 12.13 153.43

MID-COURSE EXECUTION ACCURACY
 SGT 1991.5 SGR 426.6 SG3 116.5
 RRT .0097 RRF .0020 RTF -.8888
 SGB 2036.7 R23 .0070 R13 -.8888
 SGI 1991.5 SG2 426.6 TMA .12

ORBIT DETERMINATION ACCURACY
 ST 918.9 SR 376.6 SS 809.3
 CRT 7.185 CRS .8081 CST .9899
 LSA 1255.7 MSA 252.9 SSA 16.7
 EL1 960.9 EL2 250.5 ALF 17.65

DIFFERENTIAL CORRECTIONS
 TDE-1.0485 TRA-2.4169 TC3 -.2408 BAU .2199
 RDE -.5271 RRA .2316 RC3 -.0701 FAU .01642
 FDE .9001 FRA 1.5186 FC3 -.2168 BSP 6374
 BOE 1.1735 BRA 2.4279 BC3 .2508 FSP -315

LAUNCH DATE NOV 30 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC
 RL 147.52 LAL -.00 LOL 67.86 VL 25.435 GAL 11.77 AZL 86.50 MCA 105.44 SMA 115.17 ECC .34239 INC 3.4958 VI 30.202
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.236 GAP -19.68 AZP 90.93 TAL 155.20 TAP 260.64 RCA 75.74 APO 154.61 V2 35.198
 RC 47.437 GL 11.23 GP -1.44 ZAL 45.45 ZAP 5.20 ETS 164.68 ZAE 149.56 ETE 203.95 ZAC 93.18 ETC 166.53 CLP 5.00

DISTANCE 265.874

PLANETOCENTRIC CONIC
 C3 60.828 VHL 7.799 CLA 19.53 RAL 17.39 RAD 6569.1 VEL 13.498 PTH 2.47 VHP 12.417 DPA -5.02 RAP .39 ECC 2.0011
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 28 3149.06 -26.73 107.15 267.06 80.28 6 2 57 2549.1 -27.80 98.65
 90.00 22 37 1 4476.43 8.84 187.53 255.34 62.99 23 51 37 3876.4 5.15 180.79
 100.00 6 44 3 2847.26 -28.65 85.31 267.42 81.08 7 31 30 2247.3 -29.58 76.63
 100.00 23 46 7 4253.54 10.56 170.22 254.43 61.87 24 57 0 3653.5 6.72 163.54
 110.00 8 18 42 2551.16 -33.57 63.61 268.22 83.12 9 1 13 1951.2 -34.15 54.42
 110.00 0 31 53 4122.33 14.88 157.77 251.91 58.87 1 40 36 3522.3 10.65 151.22

MID-COURSE EXECUTION ACCURACY
 SGT 2063.8 SGR 416.4 SG3 126.4
 RRT .0150 RRF -.0057 RTF -.8957
 SGB 2105.4 R23 .0083 R13 -.8957
 SGI 2063.8 SG2 416.3 TMA .18

ORBIT DETERMINATION ACCURACY
 ST 959.2 SR 366.6 SS 845.3
 CRT 7.223 CRS .8115 CST .9899
 LSA 1306.7 MSA 247.6 SSA 16.7
 EL1 997.6 EL2 243.8 ALF 16.44

DIFFERENTIAL CORRECTIONS
 TDE-1.0574 TRA-2.4061 TC3 -.2383 BAU .2032
 RDE -.4943 RRA .2139 RC3 -.0751 FAU .01714
 FDE .9479 FRA 1.5762 FC3 -.2439 BSP 6627
 BOE 1.1673 BRA 2.4156 BC3 .2499 FSP -345

LAUNCH DATE NOV 30 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC
 RL 147.52 LAL -.00 LOL 67.86 VL 25.637 GAL 11.28 AZL 86.47 MCA 108.68 SMA 116.21 ECC .32870 INC 3.5269 VI 30.202
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.369 GAP -18.74 AZP 91.13 TAL 154.77 TAP 263.45 RCA 78.01 APO 154.41 V2 35.189
 RC 46.274 GL 11.87 GP -1.54 ZAL 45.21 ZAP 3.93 ETS 157.72 ZAE 151.64 ETE 206.32 ZAC 95.01 ETC 166.66 CLP 3.62

DISTANCE 272.668

PLANETOCENTRIC CONIC
 C3 56.500 VHL 7.517 CLA 20.28 RAL 17.49 RAD 6569.0 VEL 13.336 PTH 2.44 VHP 11.882 DPA -4.35 RAP 2.13 ECC 1.9298
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 2 27 3162.10 -26.57 108.07 266.03 79.84 5 55 9 2562.1 -27.71 99.59
 90.00 22 45 49 4427.33 7.31 184.73 254.55 62.57 23 59 36 3827.3 3.58 178.04
 100.00 6 36 56 2857.43 -28.54 86.04 266.41 80.70 7 24 34 2257.4 -29.53 77.38
 100.00 23 54 1 4207.23 9.07 167.61 253.60 61.39 25 4 8 3607.2 5.18 160.98
 110.00 8 13 15 2556.09 -33.53 63.99 267.25 82.90 8 55 51 1956.1 -34.14 54.80
 110.00 0 38 7 4081.33 13.42 155.48 251.02 58.26 1 46 8 3481.3 9.13 149.01

MID-COURSE EXECUTION ACCURACY
 SGT 2136.8 SGR 405.4 SG3 137.3
 RRT .0202 RRF -.0090 RTF -.9023
 SGB 2174.9 R23 .0099 R13 -.9023
 SGI 2136.8 SG2 405.3 TMA .23

ORBIT DETERMINATION ACCURACY
 ST 1001.0 SR 355.7 SS 883.8
 CRT 7.265 CRS .8149 CST .9899
 LSA 1360.5 MSA 241.8 SSA 16.7
 EL1 1035.7 EL2 236.2 ALF 15.29

DIFFERENTIAL CORRECTIONS
 TDE-1.0671 TRA-2.3928 TC3 -.2338 BAU .1867
 RDE -.4623 RRA .1971 RC3 -.0801 FAU .01794
 FDE 1.0005 FRA 1.6378 FC3 -.2748 BSP 6882
 BOE 1.1630 BRA 2.4010 BC3 .2471 FSP -377

LAUNCH DATE NOV 30 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 279.472

RL 147.52 LAL -.00 LOL 67.86 VL 25.826 GAL 10.80 AZL 86.44 MCA 111.91 SMA 117.21 ECC .31570 INC 3.5593 V1 30.202
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.493 GAP -17.83 AZP 91.33 TAL 154.38 TAP 266.30 RCA 80.21 APO 154.21 V2 35.179
 RC 45.244 GL 12.55 GP -1.66 ZAL 45.03 ZAP 2.77 ETS 144.09 ZAE 153.80 ETE 209.15 ZAC 96.81 ETC 166.79 CLP 2.22

PLANETOCENTRIC CONIC

C3 52.547 VHL 7.249 DLA 21.02 RAL 17.54 RAD 6568.9 VEL 13.187 PTH 2.41 VHP 11.364 DPA -3.70 RAP 3.85 ECC 1.8648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 46 3176.66 -26.40 109.10 264.95 79.36 5 46 43 2576.7 -27.60 100.64
 90.00 22 54 52 4376.95 5.72 181.88 253.76 62.22 24 7 49 3777.0 1.96 175.22
 100.00 6 29 15 2868.77 -28.41 86.86 265.36 80.29 7 17 4 2268.8 -29.46 78.21
 100.00 0 6 0 4160.08 7.52 164.96 252.78 60.98 1 15 20 3560.1 3.59 158.38
 110.00 8 7 24 2561.73 -33.48 64.43 266.24 82.64 8 50 6 1961.7 -34.13 55.24
 110.00 0 44 21 4039.88 11.93 153.20 250.13 57.73 1 51 41 3439.9 7.58 146.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0772 TRA -2.3769 TC3 -.2268 BAU .1702 SGT 2210.0 SGR 393.6 SG3 149.2 ST 1043.9 SR 343.8 SS 924.8
 RDE -.4310 RRA .1814 RC3 -.0852 FAU .01883 RRT .0247 RRF -.0116 RTF -.9085 CRT .7308 CRS .8183 CST .9900
 FDE 1.0583 FRA 1.7035 FC3 -.3102 BSP 7140 SGB 2244.8 R23 .0116 R13 -.9085 LSA 1416.8 MSA 235.5 SSA 16.6
 BDE 1.1602 BRA 2.3838 BC3 .2423 FSP -413 SG1 2210.0 SG2 393.4 THA .26 EL1 1075.1 EL2 227.8 ALF 14.18

LAUNCH DATE NOV 30 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 286.281

RL 147.52 LAL -.00 LOL 67.86 VL 26.002 GAL 10.35 AZL 86.41 MCA 115.15 SMA 118.16 ECC .30337 INC 3.5931 V1 30.202
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.608 GAP -16.94 AZP 91.53 TAL 154.03 TAP 269.18 RCA 82.31 APO 154.01 V2 35.169
 RC 44.357 GL 13.25 GP -1.80 ZAL 44.91 ZAP 1.97 ETS 114.99 ZAE 156.01 ETE 212.56 ZAC 98.60 ETC 166.90 CLP .80

PLANETOCENTRIC CONIC

C3 48.940 VHL 6.996 DLA 21.78 RAL 17.53 RAD 6568.8 VEL 13.050 PTH 2.38 VHP 10.862 DPA -3.08 RAP 5.56 ECC 1.8054
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 44 20 3193.09 -26.18 110.26 263.81 78.81 5 37 33 2593.1 -27.46 101.82
 90.00 23 4 15 4325.12 4.07 178.97 252.98 61.95 24 16 20 3725.1 .28 172.33
 100.00 6 20 57 2881.54 -28.26 87.78 264.25 79.83 7 8 59 2281.5 -29.37 79.15
 100.00 0 14 15 4111.91 5.92 162.28 251.96 60.65 1 22 47 3511.9 1.97 155.73
 110.00 8 1 6 2568.23 -33.42 64.92 265.19 82.35 8 43 54 1968.2 -34.11 55.75
 110.00 0 50 36 3997.97 10.40 150.92 249.24 57.25 1 57 14 3398.0 6.01 144.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0887 TRA -2.3587 TC3 -.2176 BAU .1542 SGT 2283.8 SGR 381.0 SG3 162.4 ST 1088.4 SR 330.9 SS 968.8
 RDE -.4004 RRA .1668 RC3 -.0903 FAU .01981 RRT .0286 RRF -.0131 RTF -.9144 CRT .7355 CRS .8217 CST .9902
 FDE 1.1224 FRA 1.7741 FC3 -.3504 BSP 7377 SGB 2315.3 R23 .0138 R13 -.9144 LSA 1476.5 MSA 228.8 SSA 16.5
 BDE 1.1600 BRA 2.3646 BC3 .2356 FSP -453 SG1 2283.8 SG2 380.8 THA .28 EL1 1116.4 EL2 218.6 ALF 13.12

LAUNCH DATE NOV 30 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 293.093

RL 147.52 LAL -.00 LOL 67.86 VL 26.166 GAL 9.92 AZL 86.37 MCA 118.38 SMA 119.07 ECC .29170 INC 3.6287 V1 30.202
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.714 GAP -16.09 AZP 91.73 TAL 153.72 TAP 272.10 RCA 84.34 APO 153.80 V2 35.158
 RC 43.625 GL 13.97 GP -1.95 ZAL 44.85 ZAP 2.05 ETS 72.76 ZAE 158.23 ETE 216.74 ZAC 100.37 ETC 167.01 CLP -.65

PLANETOCENTRIC CONIC

C3 45.653 VHL 6.757 DLA 22.54 RAL 17.47 RAD 6568.7 VEL 12.924 PTH 2.36 VHP 10.376 DPA -2.48 RAP 7.25 ECC 1.7513
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 1 3211.83 -25.93 111.57 262.61 78.20 5 27 33 2611.8 -27.30 103.17
 90.00 23 14 6 4271.55 2.35 175.97 252.23 61.77 24 25 17 3671.6 -1.45 169.34
 100.00 6 11 58 2896.04 -28.08 88.82 263.09 79.31 7 0 14 2296.0 -29.27 80.22
 100.00 0 22 47 4062.57 4.27 159.55 251.16 60.39 1 30 29 3462.6 .29 153.02
 110.00 7 54 20 2575.78 -33.35 65.50 264.10 82.02 8 37 15 1975.8 -34.09 56.34
 110.00 0 56 54 3955.60 8.83 148.65 248.37 56.84 2 2 50 3355.6 4.40 142.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0996 TRA -2.3366 TC3 -.2051 BAU .1381 SGT 2355.6 SGR 367.6 SG3 177.0 ST 1133.0 SR 317.0 SS 1016.1
 RDE -.3704 RRA .1534 RC3 -.0954 FAU .02090 RRT .0306 RRF -.0129 RTF -.9200 CRT .7399 CRS .8249 CST .9903
 FDE 1.1936 FRA 1.8502 FC3 -.3963 BSP 7644 SGB 2384.1 R23 .0160 R13 -.9200 LSA 1538.5 MSA 221.8 SSA 16.4
 BDE 1.1603 BRA 2.3417 BC3 .2262 FSP -496 SG1 2355.6 SG2 367.4 THA .28 EL1 1157.8 EL2 208.6 ALF 12.09

LAUNCH DATE NOV 30 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 299.904

RL 147.52 LAL -.00 LOL 67.86 VL 26.319 GAL 9.51 AZL 86.33 MCA 121.61 SMA 119.93 ECC .28067 INC 3.6666 V1 30.202
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.813 GAP -15.26 AZP 91.92 TAL 153.44 TAP 275.05 RCA 86.27 APO 153.59 V2 35.147
 RC 43.055 GL 14.72 GP -2.12 ZAL 44.84 ZAP 3.00 ETS 46.22 ZAE 160.38 ETE 221.91 ZAC 102.11 ETC 167.12 CLP -2.12

PLANETOCENTRIC CONIC

C3 42.662 VHL 6.532 DLA 23.32 RAL 17.36 RAD 6568.6 VEL 12.807 PTH 2.33 VHP 9.906 DPA -1.91 RAP 8.92 ECC 1.7021
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 40 3233.45 -25.62 113.08 261.37 77.51 5 16 34 2633.4 -27.09 104.72
 90.00 23 24 33 4215.83 .55 172.86 251.51 61.69 24 34 49 3615.8 -3.24 166.23
 100.00 6 2 10 2912.65 -27.87 90.01 261.90 78.72 6 50 43 2312.7 -29.14 81.44
 100.00 0 31 40 4011.86 2.56 156.76 250.39 60.21 1 38 32 3411.9 -1.43 150.24
 110.00 7 47 2 2584.57 -33.26 66.17 262.98 81.63 8 30 7 1984.6 -34.06 57.02
 110.00 1 3 18 3912.71 7.22 146.36 247.51 56.50 2 8 30 3312.7 2.77 140.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1124 TRA -2.3133 TC3 -.1911 BAU .1231 SGT 2428.4 SGR 353.4 SG3 193.2 ST 1179.7 SR 301.9 SS 1066.9
 RDE -.3410 RRA .1413 RC3 -.1005 FAU .02211 RRT .0308 RRF -.0102 RTF -.9251 CRT .7443 CRS .8279 CST .9905
 FDE 1.2731 FRA 1.9324 FC3 -.4486 BSP 7894 SGB 2454.0 R23 .0190 R13 -.9251 LSA 1604.6 MSA 214.5 SSA 16.3
 BDE 1.1635 BRA 2.3176 BC3 .2159 FSP -545 SG1 2428.5 SG2 353.3 THA .26 EL1 1201.5 EL2 197.9 ALF 11.09

LAUNCH DATE NOV 30 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 306.713

RL 147.52 LAL -0.00 LOL 67.86 VL 26.461 GAL 9.12 AZL 86.29 HCA 124.83 SMA 120.75 ECC .27026 INC 3.7071 V1 30.202
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.904 GAP -14.46 AZP 92.12 TAL 153.21 TAP 278.04 RCA 88.12 APO 153.39 V2 35.135
 RC 42.657 GL 15.50 GP -2.32 ZAL 44.89 ZAP 4.31 ETS 33.88 ZAE 162.41 ETE 228.33 ZAC 103.83 ETC 167.23 CLP -3.63

PLANETOCENTRIC CONIC

C3 39.945 VHL 6.320 DLA 24.10 RAL 17.19 RAD 6568.5 VEL 12.701 PTH 2.31 VHP 9.450 OPA -1.38 RAP 10.56 ECC 1.6574
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 4 3258.73 -25.24 114.83 260.06 76.71 5 4 23 2658.7 -26.82 106.52
 90.00 23 35 50 4157.34 -1.34 169.60 250.83 61.71 24 45 7 3557.3 -5.11 162.95
 100.00 5 51 27 2931.83 -27.60 91.37 260.66 78.05 6 40 19 2331.8 -28.97 82.84
 100.00 0 41 4 3959.47 .78 153.88 249.65 60.12 1 47 3 3359.5 -3.20 147.36
 110.00 7 39 11 2594.80 -33.16 66.96 261.84 81.18 8 22 26 1994.8 -34.02 57.82
 110.00 1 9 50 3869.26 5.58 144.07 246.67 56.22 2 14 19 3269.3 1.11 137.84

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1231 TRA-2.2844 TC3 -.1710 BAU .1073 SGT 2496.1 SGR 338.5 SG3 211.0 ST 1224.7 SR 285.5 SS 1121.0
 RDE -.3119 RRA .1307 RC3 -.1055 FAU .02350 RRT .0264 RRF -.0033 RTF -.9301 CRT .7478 CRS .8302 CST .9907
 FDE 1.3609 FRA 2.0202 FC3 -.5093 BSP 8200 SGB 2518.9 R23 .0218 R13 -.9301 LSA 1671.8 MSA 207.2 SSA 16.0
 BDE 1.1656 BRA 2.2881 BC3 .2009 FSP -601 SGI 2496.1 SG2 338.4 THA .21 EL1 1243.6 EL2 186.7 ALF 10.12

LAUNCH DATE NOV 30 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 313.517

RL 147.52 LAL -0.00 LOL 67.86 VL 26.594 GAL 8.75 AZL 86.25 HCA 128.06 SMA 121.53 ECC .26047 INC 3.7510 V1 30.202
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.987 GAP -13.68 AZP 92.31 TAL 153.00 TAP 281.06 RCA 89.87 APO 153.18 V2 35.123
 RC 42.436 GL 16.31 GP -2.55 ZAL 45.00 ZAP 5.77 ETS 27.59 ZAE 164.19 ETE 236.29 ZAC 105.51 ETC 167.35 CLP -5.18

PLANETOCENTRIC CONIC

C3 37.481 VHL 6.122 DLA 24.90 RAL 16.97 RAD 6568.5 VEL 12.604 PTH 2.29 VHP 9.010 OPA -.90 RAP 12.18 ECC 1.6168
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 55 51 3288.83 -24.75 116.90 258.70 75.78 4 50 40 2688.8 -26.46 108.65
 90.00 23 48 18 4095.07 -3.34 166.12 250.21 61.86 24 56 33 3495.1 -7.08 159.44
 100.00 5 39 39 2954.20 -27.28 92.96 259.37 77.27 6 28 53 2354.2 -28.76 84.46
 100.00 0 51 7 3904.93 -1.07 150.89 248.95 60.12 1 56 12 3304.9 -5.04 144.35
 110.00 7 30 42 2606.75 -33.03 67.86 260.67 80.66 8 14 9 2006.8 -33.97 58.75
 110.00 1 16 33 3825.15 3.91 141.75 245.85 56.01 2 20 19 3225.1 -.58 135.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1378 TRA-2.2560 TC3 -.1510 BAU .0938 SGT 2566.3 SGR 323.0 SG3 230.9 ST 1273.4 SR 267.7 SS 1180.5
 RDE -.2832 RRA .1216 RC3 -.1105 FAU .02499 RRT .0183 RRF .0085 RTF -.9347 CRT .7508 CRS .8317 CST .9909
 FDE 1.4610 FRA 2.1170 FC3 -.5771 BSP 8424 SGB 2586.5 R23 .0259 R13 -.9347 LSA 1745.5 MSA 199.7 SSA 15.8
 BDE 1.1726 BRA 2.2593 BC3 .1871 FSP -661 SGI 2566.3 SG2 322.9 THA .13 EL1 1289.5 EL2 174.6 ALF 9.14

LAUNCH DATE NOV 30 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 320.314

RL 147.52 LAL -0.00 LOL 67.86 VL 26.717 GAL 8.40 AZL 86.20 HCA 131.28 SMA 122.26 ECC .25125 INC 3.7988 V1 30.202
 RP 107.93 LAP 2.85 LOP 199.20 VP 37.064 GAP -12.93 AZP 92.51 TAL 152.84 TAP 284.11 RCA 91.54 APO 152.98 V2 35.111
 RC 42.394 GL 17.15 GP -2.82 ZAL 45.16 ZAP 7.34 ETS 24.02 ZAE 165.60 ETE 245.91 ZAC 107.15 ETC 167.47 CLP -6.77

PLANETOCENTRIC CONIC

C3 35.254 VHL 5.938 DLA 25.70 RAL 16.70 RAD 6568.4 VEL 12.515 PTH 2.27 VHP 8.585 OPA -.47 RAP 13.78 ECC 1.5802
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 39 28 3325.65 -24.11 119.41 257.25 74.68 4 34 53 2725.6 -25.98 111.24
 90.00 0 6 26 4027.29 -5.51 162.32 249.69 62.18 1 13 33 3427.3 -9.19 155.57
 100.00 5 26 28 2980.66 -26.87 94.81 258.04 76.38 6 16 9 2380.7 -28.47 86.38
 100.00 1 2 7 3847.52 -3.01 147.74 248.31 60.25 2 6 14 3247.5 -6.95 141.16
 110.00 7 21 31 2620.73 -32.87 68.92 259.48 80.05 8 5 11 2020.7 -33.90 59.84
 110.00 1 23 34 3780.21 2.19 139.40 245.07 55.88 2 26 34 3180.2 -2.30 133.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1533 TRA-2.2248 TC3 -.1280 BAU .0813 SGT 2634.2 SGR 306.9 SG3 253.0 ST 1322.7 SR 248.3 SS 1244.9
 RDE -.2545 RRA .1144 RC3 -.1156 FAU .02664 RRT .0029 RRF .0282 RTF -.9390 CRT .7521 CRS .8316 CST .9912
 FDE 1.5738 FRA 2.2224 FC3 -.6543 BSP 8640 SGB 2652.0 R23 .0309 R13 -.9390 LSA 1823.1 MSA 192.3 SSA 15.4
 BDE 1.1811 BRA 2.2278 BC3 .1725 FSP -727 SGI 2634.2 SG2 306.9 THA .02 EL1 1336.1 EL2 162.0 ALF 8.16

LAUNCH DATE NOV 30 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 327.101

RL 147.52 LAL -0.00 LOL 67.86 VL 26.830 GAL 8.07 AZL 86.15 HCA 134.50 SMA 122.95 ECC .24261 INC 3.8516 V1 30.202
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.135 GAP -12.20 AZP 92.70 TAL 152.70 TAP 287.20 RCA 93.12 APO 152.78 V2 35.099
 RC 42.534 GL 18.03 GP -3.14 ZAL 45.38 ZAP 8.98 ETS 21.88 ZAE 166.52 ETE 256.97 ZAC 108.75 ETC 167.62 CLP -8.42

PLANETOCENTRIC CONIC

C3 33.246 VHL 5.766 DLA 26.53 RAL 16.37 RAD 6568.3 VEL 12.435 PTH 2.25 VHP 8.174 OPA -.12 RAP 15.34 ECC 1.5471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 19 47 3372.74 -23.23 122.58 255.68 73.33 4 16 0 2772.7 -25.29 114.52
 90.00 0 23 29 3950.60 -7.92 157.98 249.30 62.73 1 29 19 3350.6 -11.52 151.14
 100.00 5 11 31 3012.53 -26.34 97.03 256.64 75.32 6 1 44 2412.5 -28.09 88.67
 100.00 1 14 26 3786.05 -5.08 144.35 247.75 60.50 2 17 32 3186.0 -8.97 137.72
 110.00 7 11 30 2637.13 -32.67 70.16 258.28 79.34 7 55 27 2037.1 -33.80 61.11
 110.00 1 30 56 3734.21 .44 137.00 244.33 55.82 2 33 11 3134.2 -4.05 130.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1670 TRA-2.1880 TC3 -.0995 BAU .0696 SGT 2695.1 SGR 290.4 SG3 277.5 ST 1369.8 SR 227.0 SS 1313.8
 RDE -.2254 RRA .1092 RC3 -.1208 FAU .02854 RRT -.0244 RRF .0597 RTF -.9431 CRT .7502 CRS .8289 CST .9915
 FDE 1.7002 FRA 2.3357 FC3 -.7433 BSP 8915 SGB 2710.7 R23 -.0364 R13 .9431 LSA 1902.4 MSA 185.2 SSA 15.0
 BDE 1.1886 BRA 2.1907 BC3 .1565 FSP -804 SGI 2695.1 SG2 290.3 THA 179.85 EL1 1380.4 EL2 148.9 ALF 7.17

LAUNCH DATE NOV 30 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -0.00 LOL 67.86 VL 26.936 GAL 7.76 AZL 86.09 MCA 137.71 SMA 123.60 ECC .23452 INC 3.9104 V1 30.202
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.199 GAP -11.50 AZP 92.89 TAL 152.61 TAP 290.32 RCA 94.62 APO 152.59 V2 35.086
 RC 42.853 GL 18.94 GP -3.51 ZAL 45.65 ZAP 10.71 ETS 20.60 ZAE 166.88 ETE 268.71 ZAC 110.31 ETC 167.78 CLP -10.12

PLANETOCENTRIC CONIC

C3 31.444 VHL 5.607 DLA 27.38 RAL 15.98 RAD 6568.3 VEL 12.362 PTH 2.23 VHP 7.777 DPA .16 RAP 16.87 ECC 1.5175
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 54 6 3438.92 -21.86 126.95 253.89 71.55 3 51 25 2838.9 -24.18 119.05
 90.00 0 46 5 3856.35 -10.82 152.57 249.16 63.67 1 50 21 3256.4 -14.27 145.59
 100.00 4 54 5 3052.11 -25.63 99.76 255.17 74.06 5 44 58 2452.1 -27.56 91.50
 100.00 1 28 47 3718.39 -7.33 140.59 247.31 60.94 2 30 45 3118.4 -11.16 133.89
 110.00 7 0 31 2656.49 -32.42 71.62 257.06 78.51 7 44 47 2056.5 -33.66 62.60
 110.00 1 38 50 3686.78 -1.38 134.53 243.64 55.84 2 40 17 3086.8 -5.85 128.29

DIFFERENTIAL CORRECTIONS

TDE-1.1806 TRA-2.1475 TC3 -.0667 BAU .0600
 RDE -.1957 RRA .1065 RC3 -.1262 FAU .03070
 FDE 1.8434 FRA 2.4588 FC3 -.8452 BSP 9203
 BDE 1.1967 BRA 2.1502 BC3 .1427 FSP -892

MID-COURSE EXECUTION ACCURACY

SGT 2750.8 SGR 273.9 SG3 304.9
 RRT -.0677 RRF .1078 RTF -.9471
 SGB 2764.4 R23 -.0432 R13 .9471
 SG1 2750.9 SG2 273.3 THA 179.61

ORBIT DETERMINATION ACCURACY

ST 1415.9 SR 203.4 SS 1388.4
 CRT .7431 CRS .8218 CST .9917
 LSA 1985.4 MSA 178.6 SSA 14.4
 EL1 1424.0 EL2 135.3 ALF 6.15

LAUNCH DATE NOV 30 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -0.00 LOL 67.86 VL 27.033 GAL 7.47 AZL 86.02 MCA 140.93 SMA 124.21 ECC .22695 INC 3.9771 V1 30.202
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.258 GAP -10.81 AZP 93.09 TAL 152.54 TAP 293.47 RCA 96.02 APO 152.40 V2 35.073
 RC 43.347 GL 19.90 GP -3.96 ZAL 45.99 ZAP 12.53 ETS 19.89 ZAE 166.66 ETE 279.98 ZAC 111.81 ETC 167.99 CLP -11.89

PLANETOCENTRIC CONIC

C3 29.836 VHL 5.462 DLA 28.25 RAL 15.54 RAD 6568.2 VEL 12.297 PTH 2.21 VHP 7.395 DPA .35 RAP 18.37 ECC 1.4910
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 31 3578.67 -18.59 135.89 251.24 68.25 3 5 10 2978.7 -21.38 128.33
 90.00 1 31 7 3690.24 -15.63 142.75 249.94 66.09 2 32 37 3090.2 -18.74 135.44
 100.00 4 32 43 3104.01 -24.61 103.28 253.55 72.47 5 24 27 2504.0 -26.77 95.15
 100.00 1 46 35 3640.13 -9.90 136.19 247.05 61.65 2 47 16 3040.1 -13.61 129.37
 110.00 6 48 20 2679.55 -32.09 73.33 255.82 77.55 7 32 59 2079.6 -33.47 64.38
 110.00 1 47 28 3637.36 -3.26 131.94 243.01 55.95 2 48 6 3037.4 -7.71 125.68

DIFFERENTIAL CORRECTIONS

TDE-1.1953 TRA-2.1041 TC3 -.0320 BAU .0542
 RDE -.1647 RRA .1066 RC3 -.1321 FAU .03309
 FDE 2.0069 FRA 2.5930 FC3 -.9603 BSP 9465
 BDE 1.2066 BRA 2.1068 BC3 .1359 FSP -990

MID-COURSE EXECUTION ACCURACY

SGT 2801.9 SGR 258.4 SG3 335.4
 RRT -.1329 RRF .1788 RTF -.9507
 SGB 2813.8 R23 -.0519 R13 .9507
 SG1 2802.2 SG2 256.1 THA 179.29

ORBIT DETERMINATION ACCURACY

ST 1461.8 SR 177.0 SS 1469.7
 CRT .7268 CRS .8066 CST .9920
 LSA 2073.3 MSA 172.4 SSA 13.7
 EL1 1467.5 EL2 121.1 ALF 5.06

LAUNCH DATE NOV 30 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -0.00 LOL 67.86 VL 27.123 GAL 7.19 AZL 85.95 MCA 144.14 SMA 124.78 ECC .21990 INC 4.0535 V1 30.202
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.311 GAP -10.14 AZP 93.29 TAL 152.50 TAP 296.64 RCA 97.34 APO 152.22 V2 35.060
 RC 44.011 GL 20.91 GP -4.50 ZAL 46.38 ZAP 14.44 ETS 19.60 ZAE 165.97 ETE 289.77 ZAC 113.27 ETC 168.25 CLP -13.74

PLANETOCENTRIC CONIC

C3 28.412 VHL 5.330 DLA 29.16 RAL 15.03 RAD 6568.1 VEL 12.239 PTH 2.20 VHP 7.028 DPA .41 RAP 19.83 ECC 1.4676
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.75 0 46 28 3815.60 -17.96 153.00 249.52 66.64 1 50 4 3215.6 -20.97 145.55
 97.25 2 46 5 3428.85 -17.95 124.62 249.52 66.63 3 43 14 2828.8 -20.96 117.18
 100.00 4 3 19 3181.18 -22.93 108.40 251.61 70.28 4 56 20 2581.2 -25.41 100.48
 100.00 2 11 56 3538.50 -13.12 130.37 247.15 62.90 3 10 55 2938.5 -16.65 123.35
 110.00 6 34 35 2707.41 -31.67 75.39 254.55 76.40 7 19 43 2107.4 -33.21 66.51
 110.00 1 57 9 3585.03 -5.25 129.20 242.47 56.17 2 56 54 2985.0 -9.66 122.88

DIFFERENTIAL CORRECTIONS

TDE-1.2021 TRA-2.0488 TC3 .0170 BAU .0531
 RDE -.1316 RRA .1101 RC3 -.1387 FAU .03606
 FDE 2.1881 FRA 2.7324 FC3 -1.0987 BSP 9919
 BDE 1.2093 BRA 2.0518 BC3 .1397 FSP -1112

MID-COURSE EXECUTION ACCURACY

SGT 2833.7 SGR 245.4 SG3 368.7
 RRT -.2323 RRF .2827 RTF -.9544
 SGB 2844.3 R23 -.0610 R13 .9545
 SG1 2834.3 SG2 238.7 THA 178.84

ORBIT DETERMINATION ACCURACY

ST 1497.4 SR 147.3 SS 1554.2
 CRT .6896 CRS .7736 CST .9922
 LSA 2156.6 MSA 167.3 SSA 12.8
 EL1 1500.8 EL2 106.4 ALF 3.90

LAUNCH DATE NOV 30 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -0.00 LOL 67.86 VL 27.206 GAL 6.93 AZL 85.86 MCA 147.35 SMA 125.31 ECC .21338 INC 4.1427 V1 30.202
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.358 GAP -9.50 AZP 93.49 TAL 152.48 TAP 299.83 RCA 98.57 APO 152.05 V2 35.047
 RC 44.838 GL 21.98 GP -5.16 ZAL 46.83 ZAP 16.47 ETS 19.66 ZAE 164.92 ETE 297.61 ZAC 114.67 ETC 168.58 CLP -15.66

PLANETOCENTRIC CONIC

C3 27.180 VHL 5.213 DLA 30.11 RAL 14.46 RAD 6568.1 VEL 12.188 PTH 2.19 VHP 6.677 DPA .32 RAP 21.27 ECC 1.4473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.32 0 17 39 3889.65 -18.82 158.89 248.49 66.06 1 22 28 3289.6 -21.90 151.42
 100.68 3 10 25 3332.72 -18.80 117.89 248.48 66.05 4 5 58 2732.7 -21.88 110.43
 79.32 0 17 39 3889.65 -18.82 158.89 248.49 66.06 1 22 28 3289.6 -21.90 151.42
 100.68 3 10 25 3332.72 -18.80 117.89 248.48 66.05 4 5 58 2732.7 -21.88 110.43
 110.00 6 18 47 2741.92 -31.09 77.92 253.26 75.01 7 4 29 2141.9 -32.83 69.13
 110.00 2 8 27 3528.44 -7.39 126.21 242.08 56.53 3 7 15 2928.4 -11.74 119.82

DIFFERENTIAL CORRECTIONS

TDE-1.3436 TRA-2.1241 TC3 -.1295 BAU .0715
 RDE -.0962 RRA .1170 RC3 -.1483 FAU .03436
 FDE 2.5102 FRA 2.9993 FC3 -1.0944 BSP 7151
 BDE 1.3470 BRA 2.1274 BC3 .1969 FSP -1028

MID-COURSE EXECUTION ACCURACY

SGT 3079.0 SGR 239.1 SG3 418.2
 RRT -.3043 RRF .3897 RTF -.9528
 SGB 3088.3 R23 -.1030 R13 .9530
 SG1 3079.9 SG2 227.7 THA 178.64

ORBIT DETERMINATION ACCURACY

ST 1684.0 SR 114.8 SS 1722.7
 CRT .6208 CRS .7014 CST .9940
 LSA 2406.6 MSA 156.8 SSA 13.3
 EL1 1685.5 EL2 90.0 ALF 2.43

LAUNCH DATE NOV 30 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 360.842

RL 147.52 LAL -.00 LOL 67.86 VL 27.283 GAL 6.69 AZL 85.75 MCA 150.56 SMA 125.80 ECC .20728 INC 4.2490 V1 30.202
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.402 GAP -8.87 AZP 93.70 TAL 152.49 TAP 303.05 RCA 99.73 APO 151.88 V2 35.033
 RC 45.818 GL 23.14 GP -5.99 ZAL 47.36 ZAP 18.65 ETS 20.04 ZAE 163.64 ETE 303.37 ZAC 116.00 ETC 169.01 CLP -17.69

PLANETOCENTRIC CONIC

C3 26.106 VHL 5.109 CLA 31.12 RAL 13.80 RAD 6568.1 VEL 12.144 PTH 2.18 VHP 6.338 DPA .04 RAP 22.68 ECC 1.4296
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.52 23 50 36 3944.53 -19.70 163.41 247.45 65.41 24 56 20 3344.5 -22.85 155.94
 103.48 3 28 14 3257.84 -19.68 112.70 247.44 65.40 4 22 31 2657.8 -22.83 105.23
 76.52 23 50 36 3944.53 -19.70 163.41 247.45 65.41 24 56 20 3344.5 -22.85 155.94
 103.48 3 28 14 3257.84 -19.68 112.70 247.44 65.40 4 22 31 2657.8 -22.83 105.23
 110.00 5 59 43 2786.02 -30.27 81.09 251.84 73.29 6 46 9 2186.0 -32.25 72.44
 110.00 2 22 12 3464.35 -9.78 122.78 241.84 57.08 3 19 57 2864.3 -14.05 116.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2763 TRA-1.9845 TC3 .0330 BAU .0561 SGT 2967.6 SGR 242.5 SG3 453.1 ST 1629.9 SR 79.9 SS 1783.2
 RDE -.0544 RRA .1306 RC3 -.1573 FAU .04073 RRT -.5041 RRF .5756 RTF -.9587 CRT .3634 CRS .4673 CST .9933
 FDE 2.6927 FRA 3.0994 FC3-1.3505 BSP 9404 SGB 2977.5 R23 -.1041 R13 .9591 LSA 2412.0 MSA 156.9 SSA 11.2
 BDE 1.2774 BRA 1.9888 BC3 .1607 FSP -1304 SG1 2970.1 SG2 209.3 THA 177.63 EL1 1630.1 EL2 74.4 ALF 1.02

LAUNCH DATE NOV 30 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 367.540

RL 147.52 LAL -.00 LOL 67.86 VL 27.353 GAL 6.46 AZL 85.62 MCA 153.76 SMA 126.26 ECC .20166 INC 4.3786 V1 30.202
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.440 GAP -8.26 AZP 93.93 TAL 152.53 TAP 306.29 RCA 100.80 APO 151.72 V2 35.020
 RC 46.944 GL 24.40 GP -7.03 ZAL 47.98 ZAP 20.98 ETS 20.76 ZAE 162.20 ETE 307.24 ZAC 117.27 ETC 169.58 CLP -19.82

PLANETOCENTRIC CONIC

C3 25.225 VHL 5.022 CLA 32.22 RAL 13.05 RAD 6568.0 VEL 12.108 PTH 2.17 VHP 6.017 DPA -.49 RAP 24.08 ECC 1.4151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.95 23 29 55 3991.44 -20.59 167.41 246.47 64.66 24 36 27 3391.4 -23.83 159.93
 106.05 3 42 54 3193.96 -20.58 108.31 246.46 64.65 4 36 8 2594.0 -23.82 100.82
 73.95 23 29 55 3991.44 -20.59 167.41 246.47 64.66 24 36 27 3391.4 -23.83 159.93
 106.05 3 42 54 3193.96 -20.58 108.31 246.46 64.65 4 36 8 2594.0 -23.82 100.82
 110.00 5 35 19 2846.54 -29.00 85.35 250.23 71.06 6 22 45 2246.5 -31.31 76.91
 110.00 2 40 37 3386.85 -12.61 118.57 241.91 57.96 3 37 4 2786.9 -16.76 111.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2952 TRA-1.9254 TC3 .0686 BAU .0619 SGT 2988.0 SGR 265.8 SG3 500.6 ST 1670.3 SR 61.5 SS 1903.2
 RDE -.0055 RRA .1508 RC3 -.1703 FAU .04419 RRT -.6677 RRF .7400 RTF -.9613 CRT -.3714 CRS -.2651 CST .9935
 FDE 2.9899 FRA 3.2845 FC3-1.5168 BSP 9596 SGB 2999.8 R23 -.1280 R13 .9618 LSA 2528.2 MSA 154.4 SSA 9.9
 BDE 1.2952 BRA 1.9313 BC3 .1836 FSP -1452 SG1 2993.3 SG2 197.5 THA 176.59 EL1 1670.5 EL2 57.1 ALF 179.22

LAUNCH DATE NOV 30 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 374.220

RL 147.52 LAL -.00 LOL 67.86 VL 27.417 GAL 6.26 AZL 85.46 MCA 156.96 SMA 126.68 ECC .19648 INC 4.5412 V1 30.202
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.474 GAP -7.67 AZP 94.18 TAL 152.57 TAP 309.54 RCA 101.79 APO 151.58 V2 35.007
 RC 48.205 GL 25.82 GP -8.40 ZAL 48.70 ZAP 23.53 ETS 21.86 ZAE 160.63 ETE 309.37 ZAC 118.48 ETC 170.37 CLP -22.07

PLANETOCENTRIC CONIC

C3 24.544 VHL 4.954 CLA 33.44 RAL 12.17 RAD 6568.0 VEL 12.080 PTH 2.16 VHP 5.714 DPA -1.36 RAP 25.49 ECC 1.4039
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.43 23 10 9 4035.07 -21.52 171.25 245.52 63.77 24 17 24 3435.1 -24.87 163.76
 108.57 3 55 41 3136.87 -21.51 104.40 245.52 63.76 4 47 57 2536.9 -24.85 96.91
 71.43 23 10 9 4035.07 -21.52 171.25 245.52 63.77 24 17 24 3435.1 -24.87 163.76
 108.57 3 55 41 3136.87 -21.51 104.40 245.52 63.76 4 47 57 2536.9 -24.85 96.91
 110.00 4 58 26 2944.64 -26.65 92.01 248.05 67.76 5 47 30 2344.6 -29.42 83.92
 110.00 3 10 30 3275.30 -16.55 112.33 242.70 59.66 4 5 6 2675.3 -20.46 105.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3155 TRA-1.8594 TC3 .1045 BAU .0706 SGT 2994.3 SGR 318.3 SG3 552.6 ST 1706.5 SR 98.6 SS 2035.2
 RDE .0552 RRA .1804 RC3 -.1881 FAU .04804 RRT -.7980 RRF .8660 RTF -.9637 CRT -.9213 CRS -.8730 CST .9937
 FDE 3.3380 FRA 3.4747 FC3-1.6943 BSP 9801 SGB 3011.2 R23 -.1557 R13 .9645 LSA 2653.4 MSA 153.3 SSA 8.6
 BDE 1.3167 BRA 1.8681 BC3 .2152 FSP -1621 SG1 3005.1 SG2 191.1 THA 175.13 EL1 1709.0 EL2 38.3 ALF 176.95

LAUNCH DATE NOV 30 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 380.880

RL 147.52 LAL -.00 LOL 67.86 VL 27.475 GAL 6.06 AZL 85.25 MCA 160.16 SMA 127.07 ECC .19173 INC 4.7530 V1 30.202
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.505 GAP -7.09 AZP 94.47 TAL 152.64 TAP 312.80 RCA 102.71 APO 151.44 V2 34.994
 RC 49.590 GL 27.46 GP -10.22 ZAL 49.56 ZAP 26.37 ETS 23.43 ZAE 158.86 ETE 309.83 ZAC 119.64 ETC 171.46 CLP -24.44

PLANETOCENTRIC CONIC

C3 24.103 VHL 4.909 CLA 34.84 RAL 11.12 RAD 6568.0 VEL 12.062 PTH 2.16 VHP 5.433 DPA -2.71 RAP 26.97 ECC 1.3967
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.80 22 50 10 4078.78 -22.49 175.19 244.64 62.66 23 58 9 3478.8 -25.97 167.70
 111.20 4 7 17 3084.25 -22.48 100.82 244.63 62.65 4 58 42 2484.2 -25.96 93.34
 68.80 22 50 10 4078.78 -22.49 175.19 244.64 62.66 23 58 9 3478.8 -25.97 167.70
 111.20 4 7 17 3084.25 -22.48 100.82 244.63 62.65 4 58 42 2484.2 -25.96 93.34
 68.80 22 50 10 4078.78 -22.49 175.19 244.64 62.66 23 58 9 3478.8 -25.97 167.70
 111.20 4 7 17 3084.25 -22.48 100.82 244.63 62.65 4 58 42 2484.2 -25.96 93.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3430 TRA-1.7898 TC3 .1320 BAU .0806 SGT 2991.7 SGR 411.3 SG3 609.2 ST 1743.5 SR 184.3 SS 2184.0
 RDE .1351 RRA .2232 RC3 -.2126 FAU .05191 RRT -.8793 RRF .9404 RTF -.9656 CRT -.9955 CRS -.9797 CST .9939
 FDE 3.7541 FRA 3.6654 FC3-1.8646 BSP 9932 SGB 3019.8 R23 -.1843 R13 .9671 LSA 2796.4 MSA 153.7 SSA 7.1
 BDE 1.3498 BRA 1.8037 BC3 .2502 FSP -1800 SG1 3013.6 SG2 194.5 THA 173.08 EL1 1753.1 EL2 17.5 ALF 173.99

LAUNCH DATE NOV 30 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -.00 LOL 67.86 VL 27.528 GAL 5.89 AZL 84.96 HCA 163.36 SMA 127.43 ECC .18739 INC 5.0421 V1 30.202
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.531 GAP -6.53 AZP 94.83 TAL 152.71 TAP 316.07 RCA 103.55 APO 151.31 V2 34.980
 RC 51.091 GL 29.44 GP -12.76 ZAL 50.64 ZAP 29.61 ETS 25.65 ZAE 156.71 ETE 308.64 ZAC 120.74 ETC 173.04 CLP -26.95

PLANETOCENTRIC CONIC

C3 23.981 VHL 4.897 DLA 36.52 RAL 9.81 RAD 6568.0 VEL 12.056 PTH 2.15 VHP 5.182 DPA -4.77 RAP 28.60 ECC 1.3947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.91 22 28 52 4125.61 -23.52 179.51 243.82 61.23 23 37 38 3525.6 -27.17 172.05
 114.09 4 18 7 3034.92 -23.51 97.49 243.81 61.22 5 8 42 2434.9 -27.16 90.03
 65.91 22 28 52 4125.61 -23.52 179.51 243.82 61.23 23 37 38 3525.6 -27.17 172.05
 114.09 4 18 7 3034.92 -23.51 97.49 243.81 61.22 5 8 42 2434.9 -27.16 90.03
 65.91 22 28 52 4125.61 -23.52 179.51 243.82 61.23 23 37 38 3525.6 -27.17 172.05
 114.09 4 18 7 3034.92 -23.51 97.49 243.81 61.22 5 8 42 2434.9 -27.16 90.03

DIFFERENTIAL CORRECTIONS

TOE-1.3828 TRA-1.7154 TC3 .1480 BAU .0922
 RDE .2481 RRA .2852 RC3 -.2465 FAU .05554
 FDE 4.2548 FRA 3.8362 FC3-2.0051 BSP 9988
 BOE 1.4049 BRA 1.7390 BC3 .2875 FSP -1980

MID-COURSE EXECUTION ACCURACY

SGT 2979.2 SGR 561.2 SG3 668.3
 RRT -.9220 RRF .9763 RTF -.9671
 SGB 3031.6 R23 -.2066 R13 .9698
 SG1 3024.0 SG2 214.0 THA 170.10

ORBIT DETERMINATION ACCURACY

ST 1783.0 SR 316.0 SS 2351.9
 CRT -.9994 CRS -.9967 CST .9940
 LSA 2964.1 MSA 155.8 SSA 5.7
 EL1 1810.8 EL2 10.9 ALF 169.96

LAUNCH DATE NOV 30 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -.00 LOL 67.86 VL 27.576 GAL 5.72 AZL 84.54 HCA 166.55 SMA 127.75 ECC .18344 INC 5.4638 V1 30.202
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.555 GAP -5.99 AZP 95.31 TAL 152.79 TAP 319.34 RCA 104.32 APO 151.19 V2 34.967
 RC 52.697 GL 31.96 GP -16.48 ZAL 52.08 ZAP 33.50 ETS 28.78 ZAE 153.72 ETE 305.77 ZAC 121.79 ETC 175.45 CLP -29.59

PLANETOCENTRIC CONIC

C3 24.355 VHL 4.935 DLA 38.64 RAL 8.05 RAD 6568.0 VEL 12.072 PTH 2.16 VHP 4.977 DPA -7.97 RAP 30.59 ECC 1.4008
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.53 22 4 35 4179.85 -24.63 184.64 243.08 59.23 23 14 15 3579.8 -28.52 177.23
 117.47 4 28 23 2988.28 -24.62 94.38 243.07 59.22 5 18 12 2388.3 -28.51 86.98
 62.53 22 4 35 4179.85 -24.63 184.64 243.08 59.23 23 14 15 3579.8 -28.52 177.23
 117.47 4 28 23 2988.28 -24.62 94.38 243.07 59.22 5 18 12 2388.3 -28.51 86.98
 62.53 22 4 35 4179.85 -24.63 184.64 243.08 59.23 23 14 15 3579.8 -28.52 177.23
 117.47 4 28 23 2988.28 -24.62 94.38 243.07 59.22 5 18 12 2388.3 -28.51 86.98

DIFFERENTIAL CORRECTIONS

TOE-1.4425 TRA-1.6313 TC3 .1546 BAU .1080
 RDE .4220 RRA .3752 RC3 -.2934 FAU .05843
 FDE 4.8505 FRA 3.9337 FC3-2.0771 BSP 10094
 BOE 1.5030 BRA 1.6739 BC3 .3317 FSP -2155

MID-COURSE EXECUTION ACCURACY

SGT 2950.9 SGR 796.8 SG3 723.4
 RRT -.9429 RRF .9913 RTF -.9682
 SGB 3056.6 R23 -.2143 R13 .9731
 SG1 3045.8 SG2 257.2 THA 165.61

ORBIT DETERMINATION ACCURACY

ST 1825.9 SR 517.8 SS 2536.4
 CRT -.9966 CRS -.9996 CST .9942
 LSA 3163.8 MSA 160.2 SSA 4.2
 EL1 1897.5 EL2 40.8 ALF 164.21

LAUNCH DATE NOV 30 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -.00 LOL 67.86 VL 27.620 GAL 5.58 AZL 83.86 HCA 169.74 SMA 128.05 ECC .17986 INC 6.1413 V1 30.202
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.575 GAP -5.46 AZP 96.04 TAL 152.86 TAP 322.61 RCA 105.02 APO 151.08 V2 34.954
 RC 54.398 GL 35.47 GP -22.32 ZAL 54.16 ZAP 38.57 ETS 33.33 ZAE 148.96 ETE 301.35 ZAC 122.72 ETC 179.37 CLP -32.31

PLANETOCENTRIC CONIC

C3 25.685 VHL 5.068 DLA 41.55 RAL 5.44 RAD 6568.0 VEL 12.127 PTH 2.17 VHP 4.863 DPA -13.14 RAP 33.38 ECC 1.4227
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.23 21 34 30 4248.30 -25.78 191.24 242.43 56.21 22 45 19 3648.3 -30.02 183.98
 121.77 4 37 36 2946.01 -25.76 91.60 242.42 56.20 5 26 42 2346.0 -30.01 84.34
 58.23 21 34 30 4248.30 -25.78 191.24 242.43 56.21 22 45 19 3648.3 -30.02 183.98
 121.77 4 37 36 2946.01 -25.76 91.60 242.42 56.20 5 26 42 2346.0 -30.01 84.34
 58.23 21 34 30 4248.30 -25.78 191.24 242.43 56.21 22 45 19 3648.3 -30.02 183.98
 121.77 4 37 36 2946.01 -25.76 91.60 242.42 56.20 5 26 42 2346.0 -30.01 84.34

DIFFERENTIAL CORRECTIONS

TOE-1.5525 TRA-1.5369 TC3 .1423 BAU .1306
 RDE .7232 RRA .5064 RC3 -.3526 FAU .05852
 FDE 5.5395 FRA 3.8494 FC3-1.9726 BSP 10311
 BOE 1.7127 BRA 1.6182 BC3 .3803 FSP -2263

MID-COURSE EXECUTION ACCURACY

SGT 2914.0 SGR 1175.4 SG3 758.3
 RRT -.9526 RRF .9969 RTF -.9689
 SGB 3142.1 R23 -.2024 R13 .9782
 SG1 3124.4 SG2 333.5 THA 158.73

ORBIT DETERMINATION ACCURACY

ST 1888.3 SR 849.3 SS 2731.7
 CRT -.9945 CRS -1.0000 CST .9944
 LSA 3423.7 MSA 167.2 SSA 2.9
 EL1 2069.0 EL2 80.9 ALF 155.86

LAUNCH DATE NOV 30 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -.00 LOL 67.86 VL 27.659 GAL 5.45 AZL 82.58 HCA 172.93 SMA 128.32 ECC .17666 INC 7.4205 V1 30.202
 RP 108.45 LAP .91 LOP 240.85 VP 37.592 GAP -4.94 AZP 97.36 TAL 152.94 TAP 325.87 RCA 105.65 APO 150.99 V2 34.942
 RC 56.186 GL 40.90 GP -32.36 ZAL 57.62 ZAP 46.15 ETS 40.13 ZAE 140.22 ETE 296.14 ZAC 123.19 ETC 186.47 CLP -34.90

PLANETOCENTRIC CONIC

C3 29.497 VHL 5.431 DLA 45.89 RAL .83 RAD 6568.2 VEL 12.283 PTH 2.21 VHP 4.997 DPA -22.06 RAP 38.25 ECC 1.4854
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.24 20 52 22 4346.11 -26.63 200.74 241.77 51.13 22 4 48 3746.1 -31.46 193.86
 127.76 4 43 0 2917.09 -26.62 89.69 241.76 51.12 5 31 37 2317.1 -31.45 82.82
 52.24 20 52 22 4346.11 -26.63 200.74 241.77 51.13 22 4 48 3746.1 -31.46 193.86
 127.76 4 43 0 2917.09 -26.62 89.69 241.76 51.12 5 31 37 2317.1 -31.45 82.82
 52.24 20 52 22 4346.11 -26.63 200.74 241.77 51.13 22 4 48 3746.1 -31.46 193.86
 127.76 4 43 0 2917.09 -26.62 89.69 241.76 51.12 5 31 37 2317.1 -31.45 82.82

DIFFERENTIAL CORRECTIONS

TOE-1.8065 TRA-1.4260 TC3 .1060 BAU .1648
 RDE 1.3346 RRA .6817 RC3 -.4043 FAU .05139
 FDE 6.1598 FRA 3.2941 FC3-1.5082 BSP 11000
 BOE 2.2460 BRA 1.5806 BC3 .4180 FSP -2173

MID-COURSE EXECUTION ACCURACY

SGT 2884.0 SGR 1800.8 SG3 722.1
 RRT -.9564 RRF .9986 RTF -.9694
 SGB 3400.0 R23 -.1647 R13 .9861
 SG1 3370.1 SG2 449.9 THA 148.53

ORBIT DETERMINATION ACCURACY

ST 2013.0 SR 1441.8 SS 2879.4
 CRT -.9938 CRS -.9999 CST .9948
 LSA 3793.5 MSA 177.1 SSA 1.6
 EL1 2472.6 EL2 130.6 ALF 144.44

LAUNCH DATE NOV 30 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 413.847

RL 147.52 LAL -.00 LOL 67.86 VL 27.694 GAL 5.33 AZL 79.23 HCA 176.10 SMA 128.56 ECC .17381 INC10.7713 V1 30.202
 RP 108.49 LAP .73 LOP 244.03 VP 37.606 GAP -4.44 AZP 100.75 TAL 153.00 TAP 329.11 RCA 106.21 APO 150.90 V2 34.929
 RC 58.051 GL 50.86 GP -51.52 ZAL 64.61 ZAP 59.65 ETS 51.31 ZAE 122.24 EYE 293.75 ZAC 121.34 ETC 201.34 CLP -35.69

PLANETOCENTRIC CONIC

C3 44.406 VHL 6.664 DLA 52.89 RAL 349.99 RAD 6568.7 VEL 12.875 PTH 2.35 VHP 6.195 DPA -38.34 RAP 50.21 ECC 1.7308
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.27 19 39 29 4520.48 -24.70 216.15 239.64 41.62 20 34 49 3920.5 -30.55 210.40
 136.73 4 29 24 2948.98 -24.69 90.84 239.63 41.61 5 18 33 2349.0 -30.54 85.10
 43.27 19 39 29 4520.48 -24.70 216.15 239.64 41.62 20 34 49 3920.5 -30.55 210.40
 136.73 4 29 24 2948.98 -24.69 90.84 239.63 41.61 5 18 33 2349.0 -30.54 85.10
 43.27 19 39 29 4520.48 -24.70 216.15 239.64 41.62 20 34 49 3920.5 -30.55 210.40
 136.73 4 29 24 2948.98 -24.69 90.84 239.63 41.61 5 18 33 2349.0 -30.54 85.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.7575 TRA-1.2919 TC3 .0200 BAU .1838 SGT 3001.8 SGR 2734.7 SCS 486.1 ST 2434.3 SR 2508.3 SS 2710.1
 RDE 2.8912 RRA .7458 RC3 -.3090 FAU .02521 RRT -.9576 RRF .9979 RTF -.9743 CRT -.9949 CRS -.9998 CST .9967
 FDE 5.8249 FRA 1.7396 FC3 -.4915 BSP 12704 SGB 4060.8 R23 -.0950 R13 .9955 LSA 4417.8 MSA 187.8 SSA .5
 BDE 3.9934 BRA 1.4917 BC3 .3096 FSP -1485 SGI 4017.9 SGT 588.5 THA 137.78 EL1 3489.4 EL2 177.0 ALF 134.16

LAUNCH DATE NOV 30 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 420.225

RL 147.52 LAL -.00 LOL 67.86 VL 27.725 GAL 5.26 AZL 50.01 HCA 179.16 SMA 128.77 ECC .17153 INC39.9847 V1 30.202
 RP 108.53 LAP .54 LOP 247.21 VP 37.617 GAP -3.99 AZP 129.98 TAL 152.95 TAP 332.11 RCA 106.68 APO 150.88 V2 34.917
 RC 59.985 GL 61.89 GP -76.02 ZAL 81.93 ZAP 82.96 ETS 157.80 ZAE 80.30 ETE 30.58 ZAC 114.48 ETC 322.22 CLP 59.50

PLANETOCENTRIC CONIC

C3 404.578 VHL 20.114 DLA 52.52 RAL 320.49 RAD 6572.1 VEL 12.932 PTH 3.27 VHP 23.075 DPA -52.77 RAP 109.29 ECC 7.6583
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.73 17 43 12 4925.57 -3.02 232.15 228.19 37.54 19 5 18 4325.6 -9.35 227.64
 136.27 2 30 20 3360.32 -3.01 107.51 228.17 37.54 3 26 20 2760.3 -9.33 103.00
 43.73 17 43 12 4925.57 -3.02 232.15 228.19 37.54 19 5 18 4325.6 -9.35 227.64
 136.27 2 30 20 3360.32 -3.01 107.51 228.17 37.54 3 26 20 2760.3 -9.33 103.00
 43.73 17 43 12 4925.57 -3.02 232.15 228.19 37.54 19 5 18 4325.6 -9.35 227.64
 136.27 2 30 20 3360.32 -3.01 107.51 228.17 37.54 3 26 20 2760.3 -9.33 103.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-8.1787 TRA .9830 TC3 -.1885 BAU 1.6953 SGT 2490.4 SGR 3996.2 SCS 92.5 ST 2333.9 SR 3848.6 SS 2047.2
 RD-13.5045 RRA -.8128 RC3 -.2519 FAU .03500 RRT .8593 RRF -.9955 RTF -.9815 CRT .9961 CRS .9996 CST .9982
 FDE 3.6048 FRA .0111 FC3 .0749 BSP 11151 SGB 4708.7 R23 .0154 R13 -.9998 LSA 4941.5 MSA 177.4 SSA .7
 BDE15.7880 BRA 1.2755 BC3 .3134 FSP -230 SGI 4670.1 SGT 601.7 THA 58.55 EL1 4497.5 EL2 177.2 ALF 58.81

LAUNCH DATE NOV 30 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 426.994

RL 147.52 LAL -.00 LOL 67.86 VL 27.752 GAL 5.13 AZL 98.00 HCA 182.56 SMA 128.96 ECC .16889 INC 7.9953 V1 30.202
 RP 108.57 LAP .36 LOP 250.39 VP 37.627 GAP -3.44 AZP 82.01 TAL 153.19 TAP 335.74 RCA 107.18 APO 150.74 V2 34.906
 RC 61.981 GL -44.20 GP 67.12 ZAL 59.94 ZAP 72.12 ETS 315.89 ZAE 115.10 EYE 73.93 ZAC 90.06 ETC 146.35 CLP -37.88

PLANETOCENTRIC CONIC

C3 30.406 VHL 5.514 DLA -32.14 RAL 38.38 RAD 6568.2 VEL 12.320 PTH 2.22 VHP 8.032 DPA 65.12 RAP 334.75 ECC 1.5004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.12 13 13 56 1390.80 19.15 1.03 274.80 116.31 13 37 7 790.8 22.53 353.68
 105.88 17 20 59 5887.60 19.17 280.32 274.80 116.30 18 59 6 5287.6 22.54 272.97
 74.12 13 13 56 1390.80 19.15 1.03 274.80 116.31 13 37 7 790.8 22.53 353.68
 105.88 17 20 59 5887.60 19.17 280.32 274.80 116.30 18 59 6 5287.6 22.54 272.97
 110.00 16 17 59 794.79 10.72 312.45 269.87 122.65 16 31 14 194.8 14.95 305.90
 110.00 19 16 6 5531.62 28.06 257.13 278.99 110.37 20 48 18 4931.6 30.57 248.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6462 TRA-1.9173 TC3 .0710 BAU .2858 SGT 2447.9 SGR 3894.0 SCS 312.8 ST 974.2 SR 1157.2 SS 763.5
 RDE -.1671 RRA-3.1072 RC3 .6995 FAU .02214 RRT .9596 RRF -.9994 RTF -.9679 CRT .8196 CRS .9938 CST .8782
 FDE .2743 FRA 2.8859 FC3 -.6304 BSP 14659 SGB 4599.5 R23 -.0479 R13 -.9987 LSA 1632.0 MSA 455.8 SSA 1.2
 BDE .6675 BRA 3.6511 BC3 .7031 FSP -1005 SGI 4561.8 SGT 587.6 THA 58.31 EL1 1445.1 EL2 446.9 ALF 50.96

LAUNCH DATE NOV 30 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 433.452

RL 147.52 LAL -.00 LOL 67.86 VL 27.776 GAL 5.06 AZL 91.69 HCA 185.71 SMA 129.13 ECC .16703 INC 1.6856 V1 30.202
 RP 108.60 LAP .17 LOP 253.57 VP 37.634 GAP -2.98 AZP 88.32 TAL 153.20 TAP 338.91 RCA 107.56 APO 150.70 V2 34.894
 RC 64.032 GL -12.30 GP 44.89 ZAL 44.36 ZAP 62.74 ETS 331.90 ZAE 137.46 ETE 77.63 ZAC 98.84 ETC 152.39 CLP -49.72

PLANETOCENTRIC CONIC

C3 14.596 VHL 3.820 DLA -1.82 RAL 27.53 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 4.704 DPA 46.54 RAP 358.91 ECC 1.2402
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 48 41 2085.26 -16.24 33.46 243.63 113.52 9 23 26 1485.3 -12.92 26.35
 90.00 20 19 41 4842.35 19.17 209.41 244.32 68.75 21 40 23 4242.4 16.11 202.07
 100.00 10 9 11 1825.61 -17.16 13.93 243.20 114.86 10 39 36 1225.6 -13.67 6.88
 100.00 21 41 52 4577.24 20.11 189.51 243.92 67.41 22 58 9 3977.2 16.88 182.21
 110.00 11 15 29 1618.08 -19.63 356.87 241.89 118.57 11 42 27 1018.1 -15.66 349.99
 110.00 22 52 4 4357.54 22.62 171.60 242.89 63.66 24 4 41 3757.5 18.90 164.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4507 TRA-1.2019 TC3 .1253 BAU .2818 SGT 1928.2 SGR 3299.4 SCS 807.9 ST 865.8 SR 1175.6 SS 1399.1
 RDE -.4992 RRA-2.0123 RC3 1.4386 FAU .06998 RRT .9520 RRF -.9997 RTF -.9524 CRT .9787 CRS .9989 CST .9873
 FDE 1.5438 FRA 5.8554 FC3-4.1505 BSP 12257 SGB 3821.5 R23 -.0750 R13 -.9969 LSA 2016.9 MSA 145.9 SSA 5.2
 BDE .8726 BRA 2.3439 BC3 1.4440 FSP -2516 SGI 3786.7 SGT 514.4 THA 60.31 EL1 1452.9 EL2 143.7 ALF 53.81

LAUNCH DATE NOV 30 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 439.912

RL 147.52 LAL -0.00 LOL 67.86 VL 27.797 GAL 5.00 AZL 89.87 HCA 188.88 SMA 129.27 ECC .16543 INC .1454 V1 30.202
 RP 108.64 LAP -0.02 LOP 256.74 VP 37.639 GAP -2.52 AZP 90.13 TAL 153.21 TAP 342.09 RCA 107.89 APO 150.66 V2 34.883
 RC 66.131 GL 1.00 GP 33.48 ZAL 42.86 ZAP 61.60 ETS 341.32 ZAE 148.80 ETE 78.80 ZAC 102.73 ETC 155.44 CLP -55.23

PLANETOCENTRIC CONIC

C3 13.618 VHL 3.690 OLA 10.61 RAL 22.80 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 3.881 DPA 35.93 RAP 5.02 ECC 1.2241
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 55 8 2462.01 -24.70 57.79 241.07 104.30 7 36 10 1862.0 -22.49 49.81
 90.00 21 35 28 4435.07 7.55 185.17 237.38 62.63 22 49 23 3835.1 3.82 178.47
 100.00 8 21 46 2182.61 -25.73 36.93 240.76 105.76 8 58 9 1582.6 -23.32 28.96
 100.00 22 51 32 4189.70 8.50 166.62 236.88 61.23 24 1 21 3589.7 4.59 160.01
 110.00 9 42 1 1931.52 -28.47 16.88 239.78 109.77 10 14 12 1331.5 -25.51 8.95
 110.00 23 47 47 4013.56 10.97 151.77 235.39 57.42 24 54 40 3413.6 6.59 145.41

DIFFERENTIAL CORRECTIONS

TOE -.4073 TRA -.9441 TC3 .0247 BAU .2321
 RDE -.5717 RRA-1.5153 RC3 1.2746 FAU .10063
 FDE 3.0884 FRA 7.4023 FC3-6.3970 BSP 10358
 BDE .7020 BRA 1.7854 BC3 1.2749 FSP -3625

MID-COURSE EXECUTION ACCURACY

SGT 1619.9 SGR 2720.8 SG3 1165.6
 RRT .9412 RRF -.9995 RTF -.9406
 SGB 3166.5 R23 -.0878 R13 -.9956
 SG1 3130.5 SG2 475.8 THA 59.97

ORBIT DETERMINATION ACCURACY

ST 774.6 SR 1142.1 SS 1992.5
 CRT .9976 CRS .9988 CST .9996
 LSA 2423.1 MSA 52.9 SSA 15.3
 EL1 1379.3 EL2 44.1 ALF 55.88

LAUNCH DATE NOV 30 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 446.355

RL 147.52 LAL -0.00 LOL 67.86 VL 27.814 GAL 4.96 AZL 89.00 HCA 192.06 SMA 129.40 ECC .16410 INC .9978 V1 30.202
 RP 108.67 LAP -.21 LOP 259.91 VP 37.642 GAP -2.06 AZP 90.98 TAL 153.20 TAP 345.25 RCA 108.16 APO 150.63 V2 34.873
 RC 68.274 GL 7.51 GP 26.91 ZAL 43.41 ZAP 63.86 ETS 347.61 ZAE 155.44 ETE 82.56 ZAC 104.02 ETC 157.78 CLP -60.39

PLANETOCENTRIC CONIC

C3 13.662 VHL 3.696 OLA 16.64 RAL 20.27 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 3.498 DPA 29.35 RAP 6.98 ECC 1.2248
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 50 2672.66 -27.42 72.59 240.89 97.37 6 36 23 2072.7 -26.11 64.17
 90.00 22 18 38 4225.79 .87 173.42 235.58 61.70 23 29 4 3625.8 -2.92 166.79
 100.00 7 22 36 2379.97 -28.63 50.86 240.69 98.98 8 2 16 1780.0 -27.09 42.40
 100.00 23 30 33 3993.72 1.94 155.76 234.98 60.16 24 37 7 3393.7 -2.04 149.24
 110.00 8 51 40 2101.31 -31.78 28.98 239.97 103.31 9 26 41 1501.3 -29.62 20.44
 110.00 0 21 55 3845.15 4.67 142.80 233.29 56.10 1 26 0 3245.1 .18 136.58

DIFFERENTIAL CORRECTIONS

TOE -.3334 TRA -.7256 TC3 -.1178 BAU .1983
 RDE -.5639 RRA-1.2421 RC3 1.0792 FAU .12057
 FDE 4.4260 FRA 8.5874 FC3-7.6403 BSP 8761
 BDE .6551 BRA 1.4385 BC3 1.0856 FSP -4405

MID-COURSE EXECUTION ACCURACY

SGT 1285.7 SGR 2332.1 SG3 1425.0
 RRT .9143 RRF -.9990 RTF -.9133
 SGB 2663.1 R23 -.0924 R13 -.9947
 SG1 2622.5 SG2 463.0 THA 62.31

ORBIT DETERMINATION ACCURACY

ST 625.4 SR 1062.1 SS 2427.0
 CRT .9996 CRS .9983 CST .9983
 LSA 2721.3 MSA 62.3 SSA 14.6
 EL1 1232.5 EL2 14.7 ALF 59.51

LAUNCH DATE NOV 30 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 452.778

RL 147.52 LAL -0.00 LOL 67.86 VL 27.829 GAL 4.92 AZL 88.49 HCA 195.23 SMA 129.50 ECC .16304 INC 1.5068 V1 30.202
 RP 108.70 LAP -.40 LOP 263.08 VP 37.644 GAP -1.62 AZP 91.45 TAL 153.16 TAP 348.39 RCA 108.39 APO 150.62 V2 34.862
 RC 70.456 GL 11.31 GP 22.68 ZAL 44.10 ZAP 67.66 ETS 351.97 ZAE 159.63 ETE 89.83 ZAC 103.93 ETC 159.65 CLP -65.67

PLANETOCENTRIC CONIC

C3 13.832 VHL 3.719 OLA 20.14 RAL 18.73 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 3.266 DPA 24.71 RAP 7.23 ECC 1.2276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 8 54 2813.75 -28.23 82.83 240.95 92.31 5 55 48 2213.7 -27.61 74.22
 90.00 22 49 14 4090.15 -3.50 165.85 235.11 61.88 23 57 24 3490.1 -7.24 159.16
 100.00 6 43 13 2509.61 -29.64 60.36 240.86 94.08 7 25 3 1909.6 -28.76 51.67
 100.00 0 1 32 3869.52 -2.27 148.95 234.43 60.19 1 6 1 3269.5 -6.22 142.39
 110.00 8 19 14 2209.22 -33.19 37.08 240.39 98.71 8 56 3 1609.2 -31.63 28.21
 110.00 0 42 0 3742.66 .76 137.44 232.54 55.82 1 44 23 3142.7 -3.73 131.23

DIFFERENTIAL CORRECTIONS

TOE -.2224 TRA -.5049 TC3 -.2769 BAU .1819
 RDE -.5290 RRA-1.0651 RC3 .9439 FAU .13633
 FDE 5.5218 FRA 9.4581 FC3-8.5324 BSP 7442
 BDE .5738 BRA 1.1787 BC3 .9836 FSP -5059

MID-COURSE EXECUTION ACCURACY

SGT 920.0 SGR 2052.2 SG3 1624.5
 RRT .8383 RRF -.9981 RTF -.8364
 SGB 2249.0 R23 -.0845 R13 -.9945
 SG1 2199.7 SG2 467.9 THA 68.38

ORBIT DETERMINATION ACCURACY

ST 423.4 SR 969.2 SS 2736.7
 CRT .9978 CRS .9975 CST .9914
 LSA 2932.8 MSA 82.0 SSA 12.6
 EL1 1057.3 EL2 25.8 ALF 66.43

LAUNCH DATE NOV 30 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 459.179

RL 147.52 LAL -0.00 LOL 67.86 VL 27.841 GAL 4.91 AZL 88.16 HCA 198.40 SMA 129.59 ECC .16224 INC 1.8427 V1 30.202
 RP 108.73 LAP -.58 LOP 266.25 VP 37.644 GAP -1.18 AZP 91.75 TAL 153.10 TAP 351.50 RCA 108.56 APO 150.61 V2 34.853
 RC 72.672 GL 13.79 GP 19.71 ZAL 44.65 ZAP 72.29 ETS 355.13 ZAE 162.11 ETE 100.83 ZAC 103.01 ETC 161.17 CLP -71.15

PLANETOCENTRIC CONIC

C3 14.016 VHL 3.744 OLA 22.44 RAL 17.71 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 3.108 DPA 21.10 RAP 6.58 ECC 1.2307
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 26 2919.72 -28.28 90.58 241.00 88.43 5 25 6 2319.7 -28.20 81.91
 90.00 23 13 34 3989.98 -6.69 160.21 235.16 62.42 24 20 4 3390.0 -10.33 153.43
 100.00 6 14 11 2604.57 -29.89 67.41 241.02 90.38 6 57 35 2004.6 -29.52 58.63
 100.00 0 22 27 3780.36 -5.27 144.03 234.38 60.53 1 25 27 3180.4 -9.16 137.40
 110.00 7 56 13 2285.35 -33.82 42.94 240.79 95.31 8 34 18 1685.3 -32.71 33.87
 110.00 0 56 54 3672.35 -1.93 133.77 232.31 55.86 1 58 6 3072.3 -6.40 127.53

DIFFERENTIAL CORRECTIONS

TOE -.0818 TRA -.2753 TC3 -.4573 BAU .1794
 RDE -.4870 RRA -.9395 RC3 .8411 FAU .14838
 FDE 6.4361 FRA 10.1379 FC3-9.1647 BSP 6259
 BDE .4938 BRA .9790 BC3 .9574 FSP -5588

MID-COURSE EXECUTION ACCURACY

SGT 583.7 SGR 1836.3 SG3 1783.0
 RRT .5473 RRF -.9968 RTF -.5424
 SGB 1926.8 R23 -.0517 R13 -.9955
 SG1 1865.9 SG2 480.7 THA 79.42

ORBIT DETERMINATION ACCURACY

ST 185.7 SR 879.6 SS 2970.8
 CRT .9609 CRS .9962 CST .9344
 LSA 3102.3 MSA 97.1 SSA 11.8
 EL1 897.5 EL2 50.4 ALF 78.50

LAUNCH DATE NOV 30 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -.00 LOL 67.86 VL 27.851 GAL 4.90 AZL 87.92 HCA 201.58 SMA 129.66 ECC .16170 INC 2.0831 V1 30.202
 RP 108.76 LAP -.77 LOP 269.42 VP 37.643 GAP -.75 AZP 91.94 TAL 153.00 TAP 354.58 RCA 108.69 APO 150.62 V2 34.844
 RC 74.919 GL 15.52 GP 17.46 ZAL 45.05 ZAP 77.42 ETS 357.52 ZAE 163.01 ETE 114.52 ZAC 101.56 ETC 162.44 CLP -76.80

PLANETOCENTRIC CONIC

C3 14.203 VHL 3.769 CLA 24.06 RAL 17.02 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 2.999 DPA 18.05 RAP 5.38 ECC 1.2338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 6 3005.94 -27.95 96.86 241.05 85.29 5 0 12 2405.9 -28.31 88.22
 90.00 23 34 25 3909.60 -9.20 155.64 235.47 63.10 24 39 35 3309.6 -12.73 148.74
 100.00 5 51 22 2679.43 -29.79 72.97 241.18 87.46 6 36 1 2079.4 -29.83 64.17
 100.00 0 39 46 3711.34 -7.57 140.20 234.60 61.00 1 41 37 3111.3 -11.38 133.48
 110.00 7 38 55 2342.96 -34.09 47.41 241.17 92.67 8 17 58 1743.0 -33.35 38.25
 110.00 1 8 42 3620.58 -3.90 131.06 232.34 56.01 2 9 3 3020.6 -8.34 124.78

DIFFERENTIAL CORRECTIONS

TDE .0835 TRA -.0355 TC3 -.6531 BAU .1905
 RDE -.4402 RRA -.8403 RC3 .7614 FAU .15793
 FDE 7.1558 FRA10.6262 FC3-9.6259 BSP 5338
 BOE .4481 BRA .8410 BC3 1.0032 FSP -6035

MID-COURSE EXECUTION ACCURACY

SGT 511.8 SGR 1653.6 SG3 1900.8
 RRT -.3366 RRF -.9949 RTF .3470
 SGB 1731.0 R23 .0196 R13 -.9948
 SG1 1663.4 SG2 479.1 TMA 96.49

ORBIT DETERMINATION ACCURACY

ST 129.0 SR 790.2 SS 3136.9
 CRT -.7629 CRS .9944 CST -.8259
 LSA 3235.6 MSA 108.9 SSA 11.6
 EL1 796.4 EL2 82.8 ALF 97.18

LAUNCH DATE NOV 30 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -.00 LOL 67.86 VL 27.858 GAL 4.91 AZL 87.74 HCA 204.75 SMA 129.71 ECC .16141 INC 2.2640 V1 30.202
 RP 108.78 LAP -.95 LOP 272.59 VP 37.640 GAP -.33 AZP 92.06 TAL 152.87 TAP 357.62 RCA 108.77 APO 150.64 V2 34.835
 RC 77.194 GL 16.80 GP 15.66 ZAL 45.33 ZAP 82.84 ETS 359.38 ZAE 162.44 ETE 128.51 ZAC 99.78 ETC 163.50 CLP -82.56

PLANETOCENTRIC CONIC

C3 14.400 VHL 3.795 CLA 25.26 RAL 16.56 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 2.929 DPA 15.36 RAP 3.85 ECC 1.2370
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 47 33 3080.50 -27.42 102.25 241.10 82.64 4 38 54 2480.5 -28.16 93.66
 90.00 23 53 18 3841.12 -11.28 151.68 235.97 63.85 24 57 19 3241.1 -14.70 144.68
 100.00 5 32 41 2741.58 -29.52 77.57 241.35 85.05 6 18 22 2141.6 -29.89 68.79
 100.00 0 54 47 3655.26 -9.41 137.05 234.98 61.49 1 55 43 3055.3 -13.14 130.25
 110.00 7 25 27 2388.77 -34.18 50.99 241.56 90.56 8 5 15 1788.8 -33.72 41.77
 110.00 1 18 31 3580.84 -5.41 128.98 232.55 56.20 2 18 12 2980.8 -9.82 122.66

DIFFERENTIAL CORRECTIONS

TDE .2675 TRA .2121 TC3 -.8622 BAU .2126
 RDE -.3920 RRA -.7582 RC3 .6901 FAU .16366
 FDE 7.7014 FRA10.9482 FC3-9.8395 BSP 4819
 BOE .4746 BRA .7873 BC3 1.1044 FSP -6331

MID-COURSE EXECUTION ACCURACY

SGT 846.6 SGR 1492.4 SG3 1979.8
 RRT -.8153 RRF -.9923 RTF .8276
 SGB 1715.8 R23 .1007 R13 -.9877
 SG1 1658.0 SG2 441.3 TMA 116.87

ORBIT DETERMINATION ACCURACY

ST 418.1 SR 703.5 SS 3253.6
 CRT -.9511 CRS .9916 CST -.9828
 LSA 3352.9 MSA 118.4 SSA 11.5
 EL1 810.6 EL2 112.1 ALF 120.11

LAUNCH DATE NOV 30 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -.00 LOL 67.86 VL 27.863 GAL 4.94 AZL 87.59 HCA 207.92 SMA 129.74 ECC .16136 INC 2.4061 V1 30.202
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.636 GAP .09 AZP 92.13 TAL 152.71 TAP .63 RCA 108.81 APO 150.68 V2 34.827
 RC 79.493 GL 17.75 GP 14.15 ZAL 45.49 ZAP 88.41 ETS .84 ZAE 160.66 ETE 140.54 ZAC 97.80 ETC 164.36 CLP -88.36

PLANETOCENTRIC CONIC

C3 14.613 VHL 3.823 CLA 26.19 RAL 16.28 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 2.892 DPA 12.91 RAP 2.14 ECC 1.2405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 27 24 3148.33 -26.74 107.10 241.17 80.30 4 19 52 2548.3 -27.80 98.59
 90.00 0 15 7 3779.81 -13.09 148.10 236.60 64.67 1 18 6 3179.8 -16.40 140.98
 100.00 5 16 56 2795.17 -29.14 81.51 241.57 83.02 6 3 31 2195.2 -29.80 72.77
 100.00 1 8 15 3608.21 -10.92 134.38 235.49 62.00 2 8 23 3008.2 -14.58 127.50
 110.00 7 14 45 2426.54 -34.16 53.94 241.99 88.81 7 55 12 1826.5 -33.95 44.70
 110.00 1 26 55 3549.60 -6.59 127.33 232.88 56.38 2 26 5 2949.6 -10.97 120.97

DIFFERENTIAL CORRECTIONS

TDE .4642 TRA .4637 TC3-1.0748 BAU .2432
 RDE -.3411 RRA -.6852 RC3 .6280 FAU .16673
 FDE 8.0379 FRA11.0674 FC3-9.8773 BSP 4960
 BOE .5761 BRA .8273 BC3 1.2448 FSP -6536

MID-COURSE EXECUTION ACCURACY

SGT 1326.4 SGR 1342.3 SG3 2015.0
 RRT -.9193 RRF -.9884 RTF .9345
 SGB 1887.0 R23 .1318 R13 -.9818
 SG1 1848.6 SG2 379.0 TMA 134.63

ORBIT DETERMINATION ACCURACY

ST 734.0 SR 616.0 SS 3314.0
 CRT -.9640 CRS .9872 CST -.9939
 LSA 3447.4 MSA 126.6 SSA 11.5
 EL1 949.8 EL2 126.6 ALF 140.18

LAUNCH DATE NOV 30 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

RL 147.52 LAL -.00 LOL 67.86 VL 27.867 GAL 4.97 AZL 87.48 HCA 211.08 SMA 129.77 ECC .16154 INC 2.5213 V1 30.202
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.632 GAP .50 AZP 92.16 TAL 152.52 TAP 3.60 RCA 108.80 APO 150.73 V2 34.820
 RC 81.813 GL 18.48 GP 12.84 ZAL 45.56 ZAP 94.02 ETS 2.01 ZAE 158.07 ETE 149.80 ZAC 95.75 ETC 165.05 CLP -94.12

PLANETOCENTRIC CONIC

C3 14.851 VHL 3.854 CLA 26.93 RAL 16.13 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 2.885 DPA 10.65 RAP .37 ECC 1.2444
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 8 30 3213.20 -25.91 111.67 241.27 78.16 4 2 3 2613.2 -27.28 103.27
 90.00 0 32 51 3722.12 -14.75 144.67 237.38 65.55 1 34 53 3122.1 -17.92 137.43
 100.00 5 3 26 2842.69 -28.70 84.97 241.84 81.24 5 50 48 2242.7 -29.61 76.29
 100.00 1 20 36 3567.87 -12.20 132.06 236.11 62.50 2 20 4 2967.9 -15.79 125.11
 110.00 7 6 12 2458.53 -34.09 56.43 242.48 87.33 7 47 10 1858.5 -34.09 47.19
 110.00 1 34 19 3524.79 -7.53 126.01 233.31 56.56 2 33 4 2924.8 -11.87 119.62

DIFFERENTIAL CORRECTIONS

TDE .6671 TRA .7147 TC3-1.2855 BAU .2793
 RDE -.2891 RRA -.6193 RC3 .5714 FAU .16682
 FDE 8.1763 FRA11.0006 FC3-9.7246 BSP 5717
 BOE .7271 BRA .9457 BC3 1.4067 FSP -6622

MID-COURSE EXECUTION ACCURACY

SGT 1840.1 SGR 1202.1 SG3 2008.6
 RRT -.9464 RRF -.9829 RTF .9665
 SGB 2197.9 R23 .1172 R13 -.9824
 SG1 2173.2 SG2 328.8 TMA 147.43

ORBIT DETERMINATION ACCURACY

ST 1054.8 SR 530.0 SS 3326.4
 CRT -.9615 CRS .9802 CST -.9968
 LSA 3527.1 MSA 133.7 SSA 11.5
 EL1 1173.2 EL2 131.0 ALF 153.86

LAUNCH DATE NOV 30 1968

FLIGHT TIME 182.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 490.857

RL 147.52 LAL -0.00 LOL 67.86 VL 27.868 GAL 5.03 AZL 87.38 HCA 214.25 SMA 129.77 ECC .16196 INC 2.6171 V1 30.202
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.626 GAP .91 AZP 92.16 TAL 152.29 TAP 6.54 RCA 108.75 APO 150.79 V2 34.813
 RC 84.153 GL 19.03 GP 11.68 ZAL 45.54 ZAP 99.55 ETS 2.94 ZAE 155.04 ETE 156.59 ZAC 93.75 ETC 165.58 CLP -99.76

PLANETOCENTRIC CONIC

C3 15.118 VHL 3.888 CLA 27.52 RAL 16.10 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 2.905 DPA 8.58 RAP 358.64 ECC 1.2488
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 49 38 3279.18 -24.91 116.24 241.40 76.08 3 44 18 2679.2 -26.58 107.97
 90.00 0 51 29 3664.13 -16.35 141.16 238.31 66.55 1 52 33 3064.1 -19.38 133.80
 100.00 4 51 42 2885.73 -28.21 88.08 242.19 79.68 5 39 47 2285.7 -29.35 79.46
 100.00 1 32 7 3532.81 -13.29 130.04 236.82 62.98 2 31 0 2932.8 -16.81 123.01
 110.00 6 59 22 2486.17 -33.98 58.59 243.03 86.07 7 40 48 1886.2 -34.15 49.34
 110.00 1 40 56 3505.14 -8.26 124.97 233.84 56.71 2 39 21 2905.1 -12.59 118.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8706 TRA .9613 TC3-1.4875 BAU .3184 SGT 2352.6 SGR 1072.3 SG3 1965.4 ST 1369.8 SR 447.7 SS 3299.4
 RDE -.2375 RRA -.5597 RC3 .5183 FAU .16376 RRT -.9516 RRF -.9751 RTF .9794 CRT -.9506 CRS .9683 CST -.9979
 FDE 8.1394 FRA10.7738 FC3-9.3776 BSP 6874 SGB 2585.4 R23 .0893 R13 -.9853 LSA 3597.6 MSA 140.2 SSA 11.5
 BDE .9024 BRA 1.1124 BC3 1.5752 FSP -6583 SG1 2567.7 SG2 302.0 THA 156.20 EL1 1435.0 EL2 132.6 ALF 162.59

LAUNCH DATE NOV 30 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 497.127

RL 147.52 LAL -0.00 LOL 67.86 VL 27.867 GAL 5.09 AZL 87.30 HCA 217.42 SMA 129.77 ECC .16261 INC 2.6984 V1 30.202
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.620 GAP 1.32 AZP 92.14 TAL 152.02 TAP 9.43 RCA 108.67 APO 150.87 V2 34.807
 RC 86.508 GL 19.44 GP 10.63 ZAL 45.44 ZAP 104.93 ETS 3.68 ZAE 151.82 ETE 161.52 ZAC 91.87 ETC 165.96 CLP -105.19

PLANETOCENTRIC CONIC

C3 15.420 VHL 3.927 CLA 28.00 RAL 16.18 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 2.952 DPA 6.71 RAP 357.04 ECC 1.2538
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 20 3354.38 -23.58 121.35 241.48 73.85 3 24 15 2754.4 -25.57 113.24
 90.00 1 13 23 3597.82 -18.10 137.08 239.44 67.84 2 13 21 2997.8 -20.95 129.57
 100.00 4 41 26 2925.31 -27.69 90.91 242.61 78.27 5 30 11 2325.3 -29.03 82.36
 100.00 1 42 59 3502.12 -14.24 128.24 237.62 63.44 2 41 21 2902.1 -17.69 121.15
 110.00 6 53 59 2510.43 -33.85 60.47 243.67 84.96 7 35 50 1910.4 -34.18 51.24
 110.00 1 46 55 3489.77 -8.83 124.15 234.46 56.84 2 45 5 2889.8 -13.14 117.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0698 TRA 1.2008 TC3-1.6741 BAU .3584 SGT 2846.5 SGR 954.1 SG3 1892.6 ST 1671.0 SR 371.3 SS 3241.1
 RDE -.1874 RRA -.5064 RC3 .4686 FAU .15786 RRT -.9466 RRF -.9639 RTF .9855 CRT -.9293 CRS .9479 CST -.9985
 FDE 7.9572 FRA10.4221 FC3-8.8624 BSP 8220 SGB 3002.1 R23 .0653 R13 -.9880 LSA 3662.5 MSA 146.0 SSA 11.5
 BDE 1.0861 BRA 1.3032 BC3 1.7384 FSP -6427 SG1 2987.8 SG2 293.0 THA 162.22 EL1 1706.5 EL2 134.3 ALF 168.26

LAUNCH DATE NOV 30 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 503.374

RL 147.52 LAL -0.00 LOL 67.86 VL 27.865 GAL 5.17 AZL 87.23 HCA 220.58 SMA 129.75 ECC .16349 INC 2.7687 V1 30.202
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.614 GAP 1.72 AZP 92.10 TAL 151.71 TAP 12.29 RCA 108.54 APO 150.96 V2 34.802
 RC 88.877 GL 19.73 GP 9.69 ZAL 45.27 ZAP 110.07 ETS 4.27 ZAE 148.60 ETE 165.10 ZAC 90.19 ETC 166.22 CLP -110.37

PLANETOCENTRIC CONIC

C3 15.762 VHL 3.970 CLA 28.39 RAL 16.35 RAD 6567.6 VEL 11.711 PTH 2.06 VHP 3.021 DPA 5.03 RAP 355.61 ECC 1.2594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.95 1 34 23 3536.62 -20.99 133.78 241.14 70.44 2 33 20 2936.6 -23.46 125.97
 92.05 2 8 41 3425.48 -20.97 125.64 241.14 70.42 3 5 46 2825.5 -23.45 117.84
 100.00 4 32 27 2962.11 -27.16 93.51 243.12 77.00 5 21 49 2362.1 -28.68 85.04
 100.00 1 53 18 3475.22 -15.05 126.66 238.51 63.86 2 51 14 2875.2 -18.44 119.51
 110.00 6 49 51 2531.99 -33.71 62.14 244.39 83.98 7 32 3 1932.0 -34.18 52.92
 110.00 1 52 23 3478.12 -9.27 123.52 235.16 56.95 2 50 21 2878.1 -13.56 117.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.2623 TRA 1.4324 TC3-1.8385 BAU .3975 SGT 3312.1 SGR 848.9 SG3 1798.5 ST 1953.8 SR 303.2 SS 3161.3
 RDE -.1399 RRA -.4592 RC3 .4222 FAU .14946 RRT -.9344 RRF -.9484 RTF .9887 CRT -.8904 CRS .9114 CST -.9988
 FDE 7.6696 FRA 9.9853 FC3-8.2089 BSP 9604 SGB 3419.2 R23 .0484 R13 -.9899 LSA 3725.6 MSA 151.4 SSA 11.6
 BDE 1.2700 BRA 1.5042 BC3 1.8864 FSP -6165 SG1 3406.5 SG2 294.1 THA 166.43 EL1 1972.4 EL2 136.7 ALF 172.09

LAUNCH DATE NOV 30 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 509.599

RL 147.52 LAL -0.00 LOL 67.86 VL 27.861 GAL 5.27 AZL 87.17 HCA 223.74 SMA 129.72 ECC .16459 INC 2.8305 V1 30.202
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.606 GAP 2.12 AZP 92.05 TAL 151.37 TAP 15.11 RCA 108.37 APO 151.07 V2 34.797
 RC 91.256 GL 19.93 GP 8.84 ZAL 45.03 ZAP 114.94 ETS 4.74 ZAE 145.48 ETE 167.75 ZAC 88.75 ETC 166.39 CLP -115.26

PLANETOCENTRIC CONIC

C3 16.148 VHL 4.018 CLA 28.70 RAL 16.60 RAD 6567.6 VEL 11.727 PTH 2.07 VHP 3.112 DPA 3.56 RAP 354.40 ECC 1.2657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.11 1 11 48 3618.41 -21.08 139.81 241.86 70.06 2 12 7 3018.4 -23.61 132.02
 94.89 2 33 16 3354.67 -21.07 120.49 241.85 70.05 3 29 11 2754.7 -23.60 112.70
 100.00 4 24 37 2996.53 -26.61 95.92 243.71 75.85 5 14 34 2396.5 -28.29 87.52
 100.00 2 3 8 3451.78 -15.75 125.27 239.49 64.26 3 0 40 2851.8 -19.08 118.07
 110.00 6 46 50 2551.31 -33.56 63.63 245.20 83.11 7 29 21 1951.3 -34.15 54.43
 110.00 1 57 25 3469.76 -9.58 123.07 235.94 57.03 2 55 15 2869.8 -13.85 116.59

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4435 TRA 1.6529 TC3-1.9816 BAU .4356 SGT 3740.6 SGR 756.5 SG3 1688.6 ST 2210.9 SR 244.4 SS 3059.3
 RDE -.0947 RRA -.4172 RC3 .3817 FAU .14018 RRT -.9148 RRF -.9271 RTF .9906 CRT -.8189 CRS .8438 CST -.9990
 FDE 7.2916 FRA 9.4783 FC3-7.5154 BSP 10983 SGB 3816.3 R23 .0370 R13 -.9912 LSA 3779.2 MSA 156.5 SSA 11.6
 BDE 1.4466 BRA 1.7048 BC3 2.0180 FSP -5861 SG1 3804.5 SG2 300.4 THA 169.45 EL1 2220.0 EL2 139.7 ALF 174.81

LAUNCH DATE NOV 30 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 515.801

RL 147.52 LAL -.00 LOL 67.86 VL 27.855 GAL 5.38 AZL 87.11 MCA 226.91 SMA 129.68 ECC .16593 INC 2.8855 V1 30.202
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.598 GAP 2.52 AZP 91.97 TAL 150.99 TAP 17.90 RCA 108.17 APO 151.20 V2 34.793
 RC 93.644 GL 20.05 GP 8.08 ZAL 44.73 ZAP 119.52 ETS 5.11 ZAE 142.55 ETE 169.73 ZAC 87.58 ETC 166.48 CLP-119.85

PLANETOCENTRIC CONIC

C3 16.581 VHL 4.072 CLA 28.96 RAL 16.93 RAD 6567.7 VEL 11.746 PTH 2.07 VHP 3.221 DPA 2.30 RAP 353.43 ECC 1.2729
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.67 1 1 28 3662.04 -21.12 143.03 242.67 69.72 2 2 30 3062.0 -23.69 135.25
 96.33 2 46 13 3323.14 -21.11 118.18 242.67 69.70 3 41 37 2723.1 -23.68 110.41
 100.00 4 17 54 3028.75 -26.05 98.16 244.39 74.80 5 8 23 2428.8 -27.88 89.83
 100.00 2 12 28 3431.66 -16.34 124.07 240.54 64.61 3 9 40 2831.7 -19.62 116.82
 110.00 6 44 48 2568.77 -33.41 64.97 246.11 82.33 7 27 37 1968.8 -34.11 55.79
 110.00 2 2 4 3464.41 -9.78 122.79 236.79 57.08 2 59 48 2864.4 -14.05 116.29

DIFFERENTIAL CORRECTIONS

TOE 1.6136 TRA 1.8642 TC3-2.0997 BAU .4717
 RDE -.0528 RRA -.3806 RC3 .3454 FAU .13002
 FDE 6.8683 FRA 8.9451 FC3-6.7886 BSP 12297
 BOE 1.6145 BRA 1.9027 BC3 2.1280 FSP -5519

MID-COURSE EXECUTION ACCURACY

SGT 4131.2 SGR 677.7 SG3 1571.6
 RRT -.8874 RRF -.8986 RTF .9917
 SGB 4186.4 R23 .0295 R13 -.9920
 SG1 4174.9 SG2 309.1 THA 171.67

ORBIT DETERMINATION ACCURACY

ST 2442.6 SR 198.3 SS 2946.2
 CRT -.6901 CRS .7202 CST -.9991
 LSA 3828.8 MSA 161.3 SSA 11.7
 EL1 2446.4 EL2 143.3 ALF 176.78

LAUNCH DATE NOV 30 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 521.979

RL 147.52 LAL -.00 LOL 67.86 VL 27.848 GAL 5.50 AZL 87.06 MCA 230.07 SMA 129.64 ECC .16749 INC 2.9352 V1 30.202
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.590 GAP 2.92 AZP 91.89 TAL 150.58 TAP 20.65 RCA 107.92 APO 151.35 V2 34.789
 RC 96.038 GL 20.10 GP 7.39 ZAL 44.38 ZAP 123.79 ETS 5.42 ZAE 139.83 ETE 171.22 ZAC 86.68 ETC 166.51 CLP-124.11

PLANETOCENTRIC CONIC

C3 17.068 VHL 4.131 CLA 29.16 RAL 17.32 RAD 6567.7 VEL 11.767 PTH 2.08 VHP 3.349 DPA 1.23 RAP 352.70 ECC 1.2809
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.73 0 55 28 3693.15 -21.10 145.32 243.58 69.40 1 57 1 3093.2 -23.72 137.56
 97.27 2 55 25 3305.32 -21.09 116.86 243.58 69.38 3 50 30 2705.3 -23.71 109.10
 100.00 4 12 17 3058.79 -25.50 100.22 245.17 73.85 5 3 16 2458.8 -27.47 91.97
 100.00 2 21 16 3414.92 -16.82 123.06 241.67 64.92 3 18 11 2814.9 -20.06 115.77
 110.00 6 43 41 2584.64 -33.26 66.18 247.10 81.63 7 26 45 1984.6 -34.06 57.03
 110.00 2 6 22 3461.83 -9.87 122.65 237.72 57.11 3 4 4 2861.8 -14.14 116.14

DIFFERENTIAL CORRECTIONS

TOE 1.7722 TRA 2.0674 TC3-2.1927 BAU .5054
 RDE -.0139 RRA -.3490 RC3 .3133 FAU .11952
 FDE 6.4256 FRA 8.4110 FC3-6.0625 BSP 13527
 BOE 1.7723 BRA 2.0967 BC3 2.2150 FSP -5155

MID-COURSE EXECUTION ACCURACY

SGT 4483.8 SGR 612.1 SG3 1453.3
 RRT -.8514 RRF -.8619 RTF .9923
 SGB 4525.4 R23 .0243 R13 -.9925
 SG1 4514.1 SG2 318.9 THA 173.34

ORBIT DETERMINATION ACCURACY

ST 2648.5 SR 167.6 SS 2827.3
 CRT -.4770 CRS .5128 CST -.9991
 LSA 3874.1 MSA 165.9 SSA 11.8
 EL1 2649.7 EL2 147.2 ALF 178.27

LAUNCH DATE NOV 30 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 528.133

RL 147.52 LAL -.00 LOL 67.86 VL 27.840 GAL 5.64 AZL 87.02 MCA 233.23 SMA 129.58 ECC .16929 INC 2.9804 V1 30.202
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.582 GAP 3.32 AZP 91.79 TAL 150.13 TAP 23.36 RCA 107.64 APO 151.52 V2 34.787
 RC 98.436 GL 20.08 GP 6.78 ZAL 43.97 ZAP 127.76 ETS 5.68 ZAE 137.34 ETE 172.37 ZAC 86.06 ETC 166.51 CLP-128.07

PLANETOCENTRIC CONIC

C3 17.612 VHL 4.197 CLA 29.32 RAL 17.79 RAD 6567.7 VEL 11.790 PTH 2.08 VHP 3.492 DPA .35 RAP 352.22 ECC 1.2898
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.07 0 52 5 3717.20 -21.04 147.07 244.58 69.10 1 54 2 3117.2 -23.69 139.32
 97.93 3 2 29 3295.80 -21.02 116.13 244.58 69.08 3 57 25 2695.8 -23.68 108.39
 100.00 4 7 50 3086.42 -24.96 102.09 246.05 73.00 4 59 17 2486.4 -27.05 93.92
 100.00 2 29 25 3401.81 -17.20 122.27 242.87 65.17 3 26 7 2801.8 -20.41 114.94
 110.00 6 43 23 2599.15 -33.11 67.29 248.20 80.99 7 26 43 1999.2 -34.00 58.16
 110.00 2 10 22 3461.84 -9.87 122.65 238.72 57.11 3 8 3 2861.8 -14.14 116.15

DIFFERENTIAL CORRECTIONS

TOE 1.9201 TRA 2.2646 TC3-2.2607 BAU .5365
 RDE .0220 RRA -.3219 RC3 .2850 FAU .10903
 FDE 5.9836 FRA 7.8936 FC3-5.3596 BSP 14655
 BOE 1.9202 BRA 2.2874 BC3 2.2785 FSP -4784

MID-COURSE EXECUTION ACCURACY

SGT 4800.6 SGR 558.6 SG3 1337.8
 RRT -.8063 RRF -.8162 RTF .9926
 SGB 4833.0 R23 .0205 R13 -.9927
 SG1 4821.8 SG2 329.0 THA 174.61

ORBIT DETERMINATION ACCURACY

ST 2829.6 SR 154.3 SS 2706.7
 CRT -.1893 CRS .2288 CST -.9992
 LSA 3915.1 MSA 170.4 SSA 11.9
 EL1 2829.8 EL2 151.5 ALF 179.41

LAUNCH DATE NOV 30 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 534.264

RL 147.52 LAL -.00 LOL 67.86 VL 27.831 GAL 5.80 AZL 86.98 MCA 236.39 SMA 129.51 ECC .17133 INC 3.0220 V1 30.202
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.573 GAP 3.73 AZP 91.67 TAL 149.64 TAP 26.03 RCA 107.32 APO 151.70 V2 34.785
 RC 100.837 GL 20.00 GP 6.23 ZAL 43.51 ZAP 131.44 ETS 5.90 ZAE 135.08 ETE 173.26 ZAC 85.70 ETC 166.50 CLP-131.74

PLANETOCENTRIC CONIC

C3 18.220 VHL 4.268 CLA 29.43 RAL 18.31 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 3.649 DPA -.35 RAP 351.98 ECC 1.2998
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.61 0 50 35 3736.62 -20.92 148.45 245.68 68.81 1 52 52 3136.6 -23.62 140.73
 98.39 3 8 10 3292.19 -20.91 115.82 245.67 68.80 4 3 2 2692.2 -23.61 108.09
 100.00 4 4 41 3111.25 -24.46 103.77 247.03 72.26 4 56 32 2511.2 -26.65 95.65
 100.00 2 36 46 3392.79 -17.46 121.72 244.13 65.34 3 33 18 2792.8 -20.64 114.37
 110.00 6 43 53 2612.49 -32.97 68.30 249.39 80.41 7 27 25 2012.5 -33.94 59.20
 110.00 2 14 3 3464.31 -9.78 122.78 239.79 57.08 3 11 48 2864.3 -14.05 116.28

DIFFERENTIAL CORRECTIONS

TOE 2.0602 TRA 2.4590 TC3-2.3009 BAU .5640
 RDE .0550 RRA -.2986 RC3 .2594 FAU .09851
 FDE 5.5633 FRA 7.4089 FC3-4.6809 BSP 15632
 BOE 2.0609 BRA 2.4771 BC3 2.3154 FSP -4403

MID-COURSE EXECUTION ACCURACY

SGT 5086.2 SGR 516.0 SG3 1228.4
 RRT -.7524 RRF -.7617 RTF .9926
 SGB 5112.3 R23 .0175 R13 -.9927
 SG1 5101.1 SG2 338.9 THA 175.62

ORBIT DETERMINATION ACCURACY

ST 2990.6 SR 156.7 SS 2590.4
 CRT .1001 CRS -.0605 CST -.9992
 LSA 3955.8 MSA 174.6 SSA 12.0
 EL1 2990.6 EL2 155.9 ALF .30

LAUNCH DATE NOV 30 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 540.368

RL 147.52 LAL -.00 LOL 67.86 VL 27.820 GAL 5.98 AZL 86.94 HCA 239.55 SMA 129.44 ECC .17361 INC 3.0607 V1 30.202
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.564 GAP 4.14 AZP 91.55 TAL 149.13 TAP 28.68 RCA 106.97 APO 151.91 V2 34.784
 RC 103.240 GL 19.87 GP 5.75 ZAL 43.00 ZAP 134.85 ETS 6.10 ZAE 133.03 ETE 173.96 ZAC 85.59 ETC 166.47 CLP-135.14

PLANETOCENTRIC CONIC

C3 18.896 VHL 4.347 DLA 29.51 RAL 18.89 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 3.819 OPA -.89 RAP 351.96 ECC 1.3110
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.31 0 50 34 3752.68 -20.76 149.58 246.86 68.54 1 53 6 3152.7 -23.50 141.88
 98.69 3 12 49 3293.24 -20.75 115.83 246.86 68.53 4 7 43 2693.2 -23.48 108.13
 100.00 4 3 0 3132.65 -24.01 105.20 248.13 71.63 4 55 13 2532.6 -26.29 97.14
 100.00 2 43 4 3388.51 -17.58 121.46 245.43 65.43 3 39 32 2788.5 -20.75 114.10
 110.00 6 45 4 2624.80 -32.82 69.23 250.67 79.87 7 28 49 2024.8 -33.87 60.15
 110.00 2 17 29 3469.12 -9.60 123.04 240.93 57.03 3 15 18 2869.1 -13.88 116.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.1890 TRA 2.6491 TC3-2.3234 BAU .5900 SGT 5338.9 SGR 482.7 SG3 1125.1 ST 3126.9 SR 170.0 SS 2473.2
 RDE .0861 RRA -.2782 RC3 .2372 FAU .08896 RRT -.6906 RRF -.6993 RTF .9926 CRT .3292 CRS -.2917 CST -.9992
 FDE 5.1559 FRA 6.9509 FC3-4.0756 BSP 16564 SGB 5360.7 R23 .0150 R13 -.9926 LSA 3986.3 MSA 178.8 SSA 12.2
 BDE 2.1907 BRA 2.6637 BC3 2.3355 FSP -4058 SG1 5349.3 SG2 348.4 THA 176.41 EL1 3127.4 EL2 160.5 ALF 1.03

LAUNCH DATE NOV 30 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 546.447

RL 147.52 LAL -.00 LOL 67.86 VL 27.809 GAL 6.17 AZL 86.90 HCA 242.71 SMA 129.36 ECC .17615 INC 3.0970 V1 30.202
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.555 GAP 4.55 AZP 91.42 TAL 148.58 TAP 31.29 RCA 106.57 APO 152.15 V2 34.783
 RC 105.643 GL 19.69 GP 5.32 ZAL 42.46 ZAP 138.01 ETS 6.28 ZAE 131.20 ETE 174.52 ZAC 85.71 ETC 166.43 CLP-138.28

PLANETOCENTRIC CONIC

C3 19.650 VHL 4.433 DLA 29.56 RAL 19.52 RAD 6567.8 VEL 11.876 PTH 2.11 VHP 4.003 OPA -1.28 RAP 352.14 ECC 1.3234
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.14 0 51 44 3766.21 -20.56 150.49 248.13 68.28 1 54 30 3166.2 -23.33 142.82
 98.86 3 16 40 3298.20 -20.55 116.11 248.12 68.27 4 11 38 2698.2 -23.32 108.44
 100.00 4 3 0 3149.98 -23.63 106.34 249.35 71.14 4 55 30 2550.0 -25.99 98.34
 100.00 2 48 5 3389.66 -17.55 121.53 246.76 65.40 3 44 35 2789.7 -20.72 114.18
 110.00 6 46 56 2636.23 -32.68 70.09 252.05 79.38 7 30 52 2036.2 -33.80 61.04
 110.00 2 20 39 3476.17 -9.34 123.42 242.13 56.97 3 18 35 2876.2 -13.63 116.94

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3099 TRA 2.8383 TC3-2.3256 BAU .6136 SGT 5563.6 SGR 457.3 SG3 1029.5 ST 3243.2 SR 189.1 SS 2360.0
 RDE .1154 RRA -.2604 RC3 .2173 FAU .08002 RRT -.6226 RRF -.6305 RTF .9924 CRT .4861 CRS -.4512 CST -.9992
 FDE 4.7752 FRA 6.5287 FC3-3.5255 BSP 17409 SGB 5582.3 R23 .0129 R13 -.9924 LSA 4011.3 MSA 182.8 SSA 12.3
 BDE 2.3128 BRA 2.8503 BC3 2.3358 FSP -3734 SG1 5570.9 SG2 357.4 THA 177.06 EL1 3244.5 EL2 165.2 ALF 1.63

LAUNCH DATE NOV 30 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 552.498

RL 147.52 LAL -.00 LOL 67.86 VL 27.796 GAL 6.38 AZL 86.87 HCA 245.87 SMA 129.27 ECC .17895 INC 3.1312 V1 30.202
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.546 GAP 4.96 AZP 91.28 TAL 148.00 TAP 33.88 RCA 106.14 APO 152.41 V2 34.783
 RC 108.045 GL 19.47 GP 4.93 ZAL 41.87 ZAP 140.94 ETS 6.47 ZAE 129.55 ETE 174.97 ZAC 86.03 ETC 166.40 CLP-141.20

PLANETOCENTRIC CONIC

C3 20.488 VHL 4.526 DLA 29.58 RAL 20.20 RAD 6567.8 VEL 11.911 PTH 2.12 VHP 4.197 OPA -1.54 RAP 352.52 ECC 1.3372
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.09 0 54 0 3777.52 -20.32 151.23 249.48 68.04 1 56 58 3177.5 -23.12 143.58
 98.91 3 19 47 3306.78 -20.31 116.64 249.47 68.03 4 14 54 2706.8 -23.11 108.99
 100.00 4 4 48 3162.78 -23.35 107.19 250.70 70.78 4 57 31 2562.8 -25.75 99.22
 100.00 2 51 40 3396.75 -17.34 121.96 248.12 65.27 3 48 17 2796.8 -20.54 114.62
 110.00 6 49 25 2646.92 -32.55 70.90 253.52 78.92 7 33 31 2046.9 -33.73 61.86
 110.00 2 23 33 3485.37 -9.00 123.91 243.39 56.88 3 21 39 2885.4 -13.30 117.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4242 TRA 3.0290 TC3-2.3096 BAU .6349 SGT 5763.9 SGR 438.3 SG3 942.0 ST 3342.1 SR 210.4 SS 2252.4
 RDE .1431 RRA -.2446 RC3 .1992 FAU .07171 RRT -.5505 RRF -.5575 RTF .9921 CRT .5892 CRS -.5569 CST -.9992
 FDE 4.4246 FRA 6.1443 FC3-3.0303 BSP 18171 SGB 5780.6 R23 .0109 R13 -.9922 LSA 4031.4 MSA 186.7 SSA 12.4
 BDE 2.4284 BRA 3.0388 BC3 2.3181 FSP -3432 SG1 5769.0 SG2 365.6 THA 177.59 EL1 3344.4 EL2 169.9 ALF 2.13

LAUNCH DATE NOV 30 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 558.521

RL 147.52 LAL -.00 LOL 67.86 VL 27.783 GAL 6.61 AZL 86.84 HCA 249.04 SMA 129.18 ECC .18204 INC 3.1638 V1 30.202
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.537 GAP 5.39 AZP 91.13 TAL 147.40 TAP 36.43 RCA 105.66 APO 152.69 V2 34.784
 RC 110.446 GL 19.22 GP 4.59 ZAL 41.24 ZAP 143.67 ETS 6.65 ZAE 128.08 ETE 175.34 ZAC 86.55 ETC 166.38 CLP-143.92

PLANETOCENTRIC CONIC

C3 21.419 VHL 4.628 DLA 29.56 RAL 20.91 RAD 6567.9 VEL 11.950 PTH 2.13 VHP 4.404 OPA -1.67 RAP 353.06 ECC 1.3525
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.13 0 57 13 3787.04 -20.04 151.81 250.91 67.80 2 0 20 3187.0 -22.88 144.19
 98.87 3 22 17 3318.60 -20.03 117.40 250.90 67.79 4 17 36 2718.6 -22.87 109.78
 100.00 4 8 24 3171.11 -23.16 107.74 252.18 70.55 5 1 15 2571.1 -25.60 99.79
 100.00 2 53 48 3409.76 -16.97 122.75 249.50 65.02 3 50 38 2809.8 -20.20 115.44
 110.00 6 52 27 2656.98 -32.41 71.65 255.08 78.49 7 36 44 2057.0 -33.66 62.64
 110.00 2 26 14 3496.65 -8.58 124.52 244.71 56.78 3 24 31 2896.6 -12.89 118.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.5328 TRA 3.2230 TC3-2.2767 BAU .6540 SGT 5942.8 SGR 424.5 SG3 862.3 ST 3425.0 SR 232.0 SS 2150.1
 RDE .1696 RRA -.2304 RC3 .1826 FAU .06409 RRT -.4764 RRF -.4824 RTF .9918 CRT .6581 CRS -.6278 CST -.9992
 FDE 4.1029 FRA 5.7958 FC3-2.5905 BSP 18858 SGB 5957.9 R23 .0091 R13 -.9918 LSA 4046.1 MSA 190.4 SSA 12.5
 BDE 2.5385 BRA 3.2312 BC3 2.2840 FSP -3153 SG1 5946.2 SG2 373.0 THA 178.04 EL1 3428.4 EL2 174.5 ALF 2.56

LAUNCH DATE NOV 30 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 564.514

RL 147.52 LAL -.00 LOL 67.86 VL 27.769 GAL 6.86 AZL 86.80 HCA 252.20 SMA 129.08 ECC .18541 INC 3.1950 V1 30.202
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.528 GAP 5.82 AZP 90.98 TAL 146.76 TAP 38.96 RCA 105.15 APO 153.01 V2 34.786
 RC 112.844 GL 18.92 GP 4.28 ZAL 40.59 ZAP 146.21 ETS 6.85 ZAE 126.75 ETE 175.65 ZAC 87.23 ETC 166.36 CLP-146.45

PLANETOCENTRIC CONIC

C3 22.454 VHL 4.739 DLA 29.52 RAL 21.67 RAD 6567.9 VEL 11.993 PTH 2.14 VHP 4.622 DPA -1.70 RAP 353.76 ECC 1.3695
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.28 1 1 22 3794.82 -19.72 152.25 252.42 67.57 2 4 36 3194.8 -22.59 144.66
 98.72 3 24 10 3333.64 -19.71 118.37 252.41 67.56 4 19 44 2733.6 -22.58 110.78
 100.00 4 13 33 3175.60 -23.06 108.03 253.79 70.43 5 6 29 2575.6 -25.51 100.10
 100.00 2 54 39 3428.09 -16.44 123.85 250.89 64.68 3 51 48 2828.1 -19.72 116.59
 110.00 6 56 1 2666.53 -32.28 72.37 256.72 78.09 7 40 27 2066.5 -33.58 63.38
 110.00 2 28 41 3509.92 -8.08 125.22 246.09 56.67 3 27 11 2909.9 -12.41 118.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6396 TRA 3.4245 TC3-2.2241 BAU .6695 SGT 6105.1 SGR 414.7 SG3 790.5 ST 3496.9 SR 252.8 SS 2056.0
 RDE .1952 RRA -.2174 RC3 .1669 FAU .05682 RRT -.4021 RRF -.4068 RTF .9914 CRT .7052 CRS -.6766 CST -.9992
 FDE 3.8146 FRA 5.4863 FC3-2.1906 BSP 19411 SGB 6119.2 R23 .0072 R13 -.9914 LSA 4059.7 MSA 194.0 SSA 12.7
 BDE 2.6468 BRA 3.4314 BC3 2.2304 FSP -2884 SG1 6107.4 SG2 379.6 THA 178.43 EL1 3501.4 EL2 179.0 ALF 2.93

LAUNCH DATE NOV 30 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 570.474

RL 147.52 LAL -.00 LOL 67.86 VL 27.754 GAL 7.13 AZL 86.77 HCA 255.36 SMA 128.98 ECC .18910 INC 3.2252 V1 30.202
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.520 GAP 6.26 AZP 90.82 TAL 146.11 TAP 41.47 RCA 104.59 APO 153.37 V2 34.789
 RC 115.239 GL 18.60 GP 4.01 ZAL 39.90 ZAP 148.58 ETS 7.07 ZAE 125.57 ETE 175.91 ZAC 88.07 ETC 166.34 CLP-148.81

PLANETOCENTRIC CONIC

C3 23.605 VHL 4.859 DLA 29.46 RAL 22.45 RAD 6568.0 VEL 12.041 PTH 2.15 VHP 4.851 DPA -1.63 RAP 354.60 ECC 1.3885
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.52 1 6 21 3801.03 -19.36 152.55 254.00 67.36 2 9 42 3201.0 -22.26 144.99
 98.48 3 25 26 3351.78 -19.35 119.56 253.99 67.34 4 21 18 2751.8 -22.25 112.00
 100.00 4 19 59 3177.19 -23.02 108.14 255.51 70.38 5 12 56 2577.2 -25.48 100.20
 100.00 2 54 30 3450.86 -15.77 125.21 252.31 64.28 3 52 1 2850.9 -19.11 118.01
 110.00 7 0 3 2675.68 -32.15 73.05 258.45 77.71 7 44 38 2075.7 -33.51 64.08
 110.00 2 30 56 3525.13 -7.51 126.03 247.53 56.55 3 29 41 2925.1 -11.86 119.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7394 TRA 3.6289 TC3-2.1646 BAU .6848 SGT 6246.4 SGR 408.0 SG3 724.8 ST 3551.6 SR 272.7 SS 1964.5
 RDE .2201 RRA -.2051 RC3 .1526 FAU .05053 RRT -.3289 RRF -.3325 RTF .9910 CRT .7388 CRS -.7116 CST -.9992
 FDE 3.5468 FRA 5.2020 FC3-1.8532 BSP 19986 SGB 6259.7 R23 .0056 R13 -.9910 LSA 4063.1 MSA 197.4 SSA 12.7
 BDE 2.7482 BRA 3.6347 BC3 2.1700 FSP -2653 SG1 6247.8 SG2 385.3 THA 178.76 EL1 3557.3 EL2 183.5 ALF 3.25

LAUNCH DATE NOV 30 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 576.399

RL 147.52 LAL -.00 LOL 67.86 VL 27.739 GAL 7.42 AZL 86.75 HCA 258.52 SMA 128.87 ECC .19311 INC 3.2545 V1 30.202
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.511 GAP 6.71 AZP 90.65 TAL 145.43 TAP 43.95 RCA 103.98 APO 153.75 V2 34.792
 RC 117.630 GL 18.24 GP 3.77 ZAL 39.19 ZAP 150.81 ETS 7.30 ZAE 124.51 ETE 176.13 ZAC 89.04 ETC 166.34 CLP-151.04

PLANETOCENTRIC CONIC

C3 24.886 VHL 4.989 DLA 29.37 RAL 23.27 RAD 6568.0 VEL 12.094 PTH 2.16 VHP 5.093 DPA -1.47 RAP 355.56 ECC 1.4096
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.86 1 12 16 3805.46 -18.97 152.70 255.65 67.15 2 15 41 3205.5 -21.90 145.18
 98.14 3 26 2 3373.27 -18.95 120.97 255.64 67.13 4 22 15 2773.3 -21.89 113.45
 100.00 4 27 21 3176.86 -23.03 108.11 257.34 70.39 5 20 18 2576.9 -25.49 100.18
 100.00 2 53 37 3477.11 -14.99 126.77 253.75 63.83 3 51 35 2877.1 -18.39 119.63
 110.00 7 4 30 2684.52 -32.02 73.70 260.27 77.34 7 49 15 2084.5 -33.43 64.76
 110.00 2 32 57 3542.21 -6.87 126.94 249.01 56.43 3 31 59 2942.2 -11.24 120.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.8367 TRA 3.8418 TC3-2.0922 BAU .6976 SGT 6372.5 SGR 403.6 SG3 665.5 ST 3595.3 SR 291.1 SS 1878.9
 RDE .2446 RRA -.1932 RC3 .1390 FAU .04471 RRT -.2578 RRF -.2602 RTF .9905 CRT .7633 CRS -.7373 CST -.9992
 FDE 3.3046 FRA 4.9475 FC3-1.5553 BSP 20490 SGB 6385.3 R23 .0040 R13 -.9905 LSA 4062.1 MSA 200.7 SSA 12.8
 BDE 2.8472 BRA 3.8467 BC3 2.0968 FSP -2440 SG1 6373.4 SG2 389.9 THA 179.06 EL1 3602.2 EL2 187.7 ALF 3.55

LAUNCH DATE NOV 30 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 582.286

RL 147.52 LAL -.00 LOL 67.86 VL 27.722 GAL 7.74 AZL 86.72 HCA 261.68 SMA 128.76 ECC .19748 INC 3.2831 V1 30.202
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.503 GAP 7.18 AZP 90.48 TAL 144.73 TAP 46.42 RCA 103.33 APO 154.18 V2 34.796
 RC 120.015 GL 17.86 GP 3.55 ZAL 38.46 ZAP 152.91 ETS 7.56 ZAE 123.55 ETE 176.32 ZAC 90.12 ETC 166.33 CLP-153.13

PLANETOCENTRIC CONIC

C3 26.312 VHL 5.130 DLA 29.26 RAL 24.10 RAD 6568.1 VEL 12.153 PTH 2.18 VHP 5.346 DPA -1.24 RAP 356.62 ECC 1.4330
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.30 1 19 7 3807.95 -18.54 152.70 257.37 66.95 2 22 35 3207.9 -21.50 145.20
 97.70 3 25 51 3398.32 -18.52 122.63 257.36 66.93 4 22 29 2798.3 -21.49 115.14
 100.00 4 35 24 3175.42 -23.06 108.02 259.25 70.43 5 28 19 2575.4 -25.52 100.08
 100.00 2 52 15 3506.08 -14.12 128.48 255.24 63.37 3 50 41 2906.1 -17.58 121.40
 110.00 7 9 22 2693.16 -31.89 74.34 262.16 76.98 7 54 15 2093.2 -33.35 65.42
 110.00 2 34 47 3561.10 -6.16 127.94 250.55 56.31 3 34 8 2961.1 -10.54 121.59

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.9320 TRA 4.0640 TC3-2.0097 BAU .7083 SGT 6484.7 SGR 400.9 SG3 611.9 ST 3628.5 SR 308.1 SS 1798.8
 RDE .2687 RRA -.1814 RC3 .1261 FAU .03941 RRT -.1893 RRF -.1905 RTF .9901 CRT .7816 CRS -.7566 CST -.9992
 FDE 3.0853 FRA 4.7193 FC3-1.2966 BSP 20947 SGB 6497.0 R23 .0024 R13 -.9901 LSA 4056.4 MSA 203.7 SSA 12.8
 BDE 2.9443 BRA 4.0681 BC3 2.0136 FSP -2247 SG1 6485.1 SG2 393.6 THA 179.33 EL1 3636.5 EL2 191.7 ALF 3.81

LAUNCH DATE NOV 30 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 588.133

RL 147.52 LAL -1.00 LOL 67.86 VL 27.706 GAL 8.08 AZL 86.69 HCA 264.85 SMA 128.64 ECC .20223 INC 3.3113 V1 30.202
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.495 GAP 7.66 AZP 90.30 TAL 144.02 TAP 48.87 RCA 102.63 APO 154.65 V2 34.800
 RC 122.394 GL 17.45 GP 3.36 ZAL 37.71 ZAP 154.90 ETS 7.85 ZAE 122.69 ETE 176.50 ZAC 91.32 ETC 166.33 CLP-155.11

PLANETOCENTRIC CONIC

C3 27.903 VHL 5.282 DLA 29.13 RAL 24.96 RAD 6568.1 VEL 12.218 PTH 2.20 VHP 5.613 DPA -.93 RAP 357.78 ECC 1.4592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.87 1 27 2 3808.08 -18.07 152.49 259.15 66.76 2 30 30 3208.1 -21.06 145.04
 97.13 3 24 46 3427.36 -18.05 124.56 259.14 66.74 4 21 54 2827.4 -21.05 117.10
 100.00 4 43 55 3173.46 -23.10 107.89 261.26 70.49 5 36 49 2573.5 -25.55 99.95
 100.00 2 50 34 3537.21 -13.16 130.29 256.76 62.92 3 49 31 2937.2 -16.69 123.28
 110.00 7 14 34 2701.69 -31.76 74.97 264.13 76.63 7 59 35 2101.7 -33.27 66.07
 110.00 2 36 25 3581.75 -5.38 129.03 252.13 56.19 3 36 6 2981.7 -9.78 122.70

DIFFERENTIAL CORRECTIONS

TDE 3.0296 TRA 4.3003 TC3-1.9136 BAU .7151
 RDE .2925 RRA -.1695 RC3 .1138 FAU .03435
 FDE 2.8910 FRA 4.5185 FC3-1.0659 BSP 21280
 BDE 3.0436 BRA 4.3036 BC3 1.9170 FSP -2061

MID-COURSE EXECUTION ACCURACY

SGT 6587.7 SGR 399.3 SG3 563.8
 RRT -.1232 RRF -.1232 RTF .9896
 SGB 6599.8 R23 .0009 R13 -.9896
 SG1 6587.9 SG2 396.2 THA 179.57

ORBIT DETERMINATION ACCURACY

ST 3656.2 SR 323.5 SS 1726.1
 CRT .7958 CRS -.7717 CST -.9992
 LSA 4050.8 MSA 206.5 SSA 12.8
 EL1 3665.3 EL2 195.5 ALF 4.04

LAUNCH DATE NOV 30 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 593.935

RL 147.52 LAL -1.00 LOL 67.86 VL 27.688 GAL 8.46 AZL 86.66 HCA 268.01 SMA 128.52 ECC .20738 INC 3.3393 V1 30.202
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.487 GAP 8.15 AZP 90.12 TAL 143.30 TAP 51.31 RCA 101.87 APO 155.17 V2 34.805
 RC 124.766 GL 17.03 GP 3.18 ZAL 36.94 ZAP 156.78 ETS 8.18 ZAE 121.91 ETE 176.65 ZAC 92.61 ETC 166.32 CLP-156.98

PLANETOCENTRIC CONIC

C3 29.680 VHL 5.448 DLA 28.98 RAL 25.83 RAD 6568.2 VEL 12.290 PTH 2.21 VHP 5.894 DPA -.57 RAP 359.03 ECC 1.4885
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.58 1 36 13 3805.12 -17.56 152.05 260.99 66.58 2 39 38 3205.1 -20.58 144.63
 96.42 3 22 32 3461.17 -17.55 126.83 260.99 66.57 4 20 13 2861.2 -20.57 119.40
 100.00 4 52 47 3171.42 -23.15 107.76 263.33 70.54 5 45 38 2571.4 -25.59 99.81
 100.00 2 48 39 3570.11 -12.13 132.19 258.32 62.47 3 48 9 2970.1 -15.72 125.25
 110.00 7 20 4 2710.20 -31.62 75.60 266.17 76.28 8 5 14 2110.2 -33.18 66.72
 110.00 2 37 51 3604.10 -4.53 130.20 253.76 56.08 3 37 55 3004.1 -8.95 123.90

DIFFERENTIAL CORRECTIONS

TDE 3.1227 TRA 4.5451 TC3-1.8160 BAU .7217
 RDE .3164 RRA -.1571 RC3 .1023 FAU .02998
 FDE 2.7106 FRA 4.3346 FC3 -.8745 BSP 21664
 BDE 3.1387 BRA 4.5478 BC3 1.8189 FSP -1902

MID-COURSE EXECUTION ACCURACY

SGT 6675.0 SGR 398.5 SG3 519.8
 RRT -.0601 RRF -.0592 RTF .9892
 SGB 6686.9 R23 -.0005 R13 -.9892
 SG1 6675.1 SG2 397.8 THA 179.79

ORBIT DETERMINATION ACCURACY

ST 3670.9 SR 337.5 SS 1655.7
 CRT .8068 CRS -.7835 CST -.9992
 LSA 4035.7 MSA 209.0 SSA 12.8
 EL1 3681.1 EL2 198.9 ALF 4.25

LAUNCH DATE NOV 30 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 599.686

RL 147.52 LAL -1.00 LOL 67.86 VL 27.670 GAL 8.86 AZL 86.63 HCA 271.18 SMA 128.40 ECC .21299 INC 3.3671 V1 30.202
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.479 GAP 8.67 AZP 89.93 TAL 142.56 TAP 53.74 RCA 101.05 APO 155.75 V2 34.811
 RC 127.128 GL 16.58 GP 3.02 ZAL 36.17 ZAP 158.57 ETS 8.54 ZAE 121.20 ETE 176.80 ZAC 93.98 ETC 166.32 CLP-158.77

PLANETOCENTRIC CONIC

C3 31.669 VHL 5.628 DLA 28.80 RAL 26.71 RAD 6568.3 VEL 12.371 PTH 2.23 VHP 6.190 DPA -.15 RAP .34 ECC 1.5212
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.49 1 47 6 3797.61 -17.03 151.25 262.90 66.41 2 50 24 3197.6 -20.07 143.86
 95.51 3 18 40 3501.25 -17.01 129.53 262.89 66.40 4 17 1 2901.2 -20.06 122.14
 100.00 5 1 52 3169.58 -23.19 107.64 265.48 70.59 5 54 41 2569.6 -25.63 99.68
 100.00 2 46 36 3604.51 -11.04 134.17 259.92 62.04 3 46 40 3004.5 -14.69 127.28
 110.00 7 25 51 2718.76 -31.48 76.23 268.28 75.93 8 11 10 2118.8 -33.09 67.37
 110.00 2 39 6 3628.10 -3.62 131.46 255.43 55.99 3 39 34 3028.1 -8.06 125.19

DIFFERENTIAL CORRECTIONS

TDE 3.2153 TRA 4.8029 TC3-1.7129 BAU .7262
 RDE .3402 RRA -.1442 RC3 .0914 FAU .02599
 FDE 2.5469 FRA 4.1699 FC3 -.7104 BSP 22022
 BDE 3.2332 BRA 4.8051 BC3 1.7153 FSP -1759

MID-COURSE EXECUTION ACCURACY

SGT 6750.9 SGR 398.3 SG3 479.8
 RRT .0003 RRF .0020 RTF .9888
 SGB 6762.7 R23 .0017 R13 .9888
 SG1 6750.9 SG2 398.3 THA .00

ORBIT DETERMINATION ACCURACY

ST 3677.3 SR 350.0 SS 1589.9
 CRT .8155 CRS -.7929 CST -.9992
 LSA 4016.0 MSA 211.2 SSA 12.7
 EL1 3688.4 EL2 202.0 ALF 4.45

LAUNCH DATE NOV 30 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 605.382

RL 147.52 LAL -1.00 LOL 67.86 VL 27.652 GAL 9.29 AZL 86.60 HCA 274.34 SMA 128.27 ECC .21908 INC 3.3950 V1 30.202
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.472 GAP 9.21 AZP 89.74 TAL 141.82 TAP 56.16 RCA 100.17 APO 156.38 V2 34.818
 RC 129.481 GL 16.11 GP 2.88 ZAL 35.38 ZAP 160.28 ETS 8.97 ZAE 120.55 ETE 176.93 ZAC 95.42 ETC 166.31 CLP-160.49

PLANETOCENTRIC CONIC

C3 33.900 VHL 5.822 DLA 28.61 RAL 27.60 RAD 6568.3 VEL 12.461 PTH 2.25 VHP 6.503 DPA .32 RAP 1.72 ECC 1.5579
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.71 2 0 40 3782.40 -16.45 149.87 264.85 66.25 3 3 42 3182.4 -19.52 142.52
 94.29 3 12 11 3550.76 -16.43 132.90 264.84 66.24 4 11 22 2950.8 -19.51 125.55
 100.00 5 11 5 3168.15 -23.22 107.54 267.69 70.63 6 3 53 2568.2 -25.65 99.59
 100.00 2 44 27 3640.24 -9.89 136.20 261.56 61.65 3 45 7 3040.2 -13.60 129.38
 110.00 7 31 51 2727.46 -31.34 76.86 270.46 75.58 8 17 19 2127.5 -33.00 68.03
 110.00 2 40 10 3653.71 -2.64 132.80 257.14 55.91 3 41 4 3053.7 -7.10 126.55

DIFFERENTIAL CORRECTIONS

TDE 3.3099 TRA 5.0774 TC3-1.6035 BAU .7277
 RDE .3641 RRA -.1304 RC3 .0811 FAU .02228
 FDE 2.4001 FRA 4.0240 FC3 -.5690 BSP 22329
 BDE 3.3299 BRA 5.0791 BC3 1.6056 FSP -1626

MID-COURSE EXECUTION ACCURACY

SGT 6818.4 SGR 398.3 SG3 443.6
 RRT .0584 RRF .0607 RTF .9884
 SGB 6830.0 R23 .0028 R13 .9884
 SG1 6818.4 SG2 397.6 THA .20

ORBIT DETERMINATION ACCURACY

ST 3678.0 SR 361.0 SS 1529.3
 CRT .8225 CRS -.8007 CST -.9993
 LSA 3993.9 MSA 213.0 SSA 12.6
 EL1 3690.0 EL2 204.6 ALF 4.63

LAUNCH DATE DEC 1 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 9 1969

HELIOCENTRIC CONIC

DISTANCE 128.252

RL 147.50 LAL -0.00 LOL 68.87 VL 15.602 GAL 30.50 AZL 87.28 HCA 34.67 SMA 85.28 ECC .80786 INC 2.7224 V1 30.207
 RP 107.56 LAP 1.55 LOP 103.51 VP 30.193 GAP -52.37 AZP 87.76 TAL 171.58 TAP 206.25 RCA 16.39 APO 154.18 V2 35.232
 RC 88.659 GL 1.96 GP -.49 ZAL 63.98 ZAP 35.22 ETS 177.72 ZAE 132.08 ETE 185.71 ZAC 54.81 ETC 160.56 CLP 35.21

PLANETOCENTRIC CONIC

C3 349.029 VHL 18.682 DLA 3.75 RAL 3.72 RAD 6571.9 VEL 21.687 PTH 3.22 VHP 29.134 DPA -18.55 RAP 322.28 ECC 6.7441
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 28 25 2922.19 -28.27 90.76 270.25 88.34 7 17 7 2322.2 -28.20 82.09
 90.00 19 22 8 5333.61 27.56 242.76 266.29 83.22 20 51 2 4733.6 26.33 234.31
 100.00 7 51 31 2654.17 -29.86 71.10 270.30 88.44 8 35 45 2054.2 -29.75 62.29
 100.00 20 41 44 5076.86 29.13 223.67 266.08 82.98 22 6 21 4476.9 27.85 215.10
 110.00 9 3 47 2427.99 -34.16 54.05 270.43 88.74 9 44 15 1828.0 -33.96 44.81
 110.00 21 45 57 4875.81 33.40 207.76 265.43 82.29 23 7 13 4275.8 31.98 198.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9084 TRA-2.1646 TC3 -.1097 BAU .5135 SGT 829.6 SGR 456.0 SG3 23.9 ST 342.9 SR 408.5 SS 341.7
 RDE -1.3161 RRA .6819 RC3 -.0087 FAU .01108 RRT -.0361 RRF .0320 RTF -.6217 CRT .7132 CRS .7743 CST .9941
 FDE .3818 FRA .7445 FC3 -.0275 BSP 2004 SGB 946.6 R23 .0001 R13 .6217 LSA 592.6 MSA 223.4 SSA 14.0
 BDE 1.5992 BRA 2.2695 BC3 .1101 FSP -49 SGI 829.8 SG2 455.5 TMA 178.37 ELI 495.1 EL2 198.3 ALF 51.93

LAUNCH DATE DEC 1 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 11 1969

HELIOCENTRIC CONIC

DISTANCE 133.666

RL 147.50 LAL -0.00 LOL 68.87 VL 16.399 GAL 29.03 AZL 87.21 HCA 37.91 SMA 86.71 ECC .78187 INC 2.7943 V1 30.207
 RP 107.54 LAP 1.72 LOP 106.75 VP 30.619 GAP -50.04 AZP 87.79 TAL 170.66 TAP 208.58 RCA 18.91 APO 154.50 V2 35.238
 RC 86.453 GL 2.24 GP -.51 ZAL 62.62 ZAP 33.68 ETS 177.75 ZAE 131.98 ETE 186.09 ZAC 56.44 ETC 161.01 CLP 33.68

PLANETOCENTRIC CONIC

C3 320.596 VHL 17.905 DLA 4.55 RAL 4.87 RAD 6571.8 VEL 21.021 PTH 3.19 VHP 28.086 DPA -18.06 RAP 324.01 ECC 6.2762
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 27 0 2937.76 -28.24 91.89 271.10 87.77 7 15 57 2337.8 -28.25 83.23
 90.00 19 32 44 5299.21 27.26 240.29 266.33 82.02 21 1 3 4699.2 25.87 231.90
 100.00 7 50 28 2668.50 -29.82 72.16 271.17 87.89 8 34 57 2068.5 -29.80 63.36
 100.00 20 51 56 5043.70 28.83 221.25 266.08 81.74 22 16 0 4443.7 27.39 212.74
 110.00 9 3 37 2439.59 -34.14 54.96 271.34 88.21 9 44 16 1839.6 -34.01 45.71
 110.00 21 55 17 4845.37 33.10 205.44 265.32 80.94 23 16 2 4245.4 31.50 196.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9143 TRA-2.1860 TC3 -.1172 BAU .5042 SGT 868.5 SGR 461.7 SG3 25.8 ST 360.7 SR 413.4 SS 357.7
 RDE -1.2765 RRA .6612 RC3 -.0099 FAU .01110 RRT -.0362 RRF .0323 RTF -.6405 CRT .7117 CRS .7752 CST .9939
 FDE .3976 FRA .7720 FC3 -.0300 BSP 2126 SGB 983.6 R23 .0000 R13 .6405 LSA 613.2 MSA 229.5 SSA 14.3
 BDE 1.5701 BRA 2.2839 BC3 .1176 FSP -54 SGI 868.7 SG2 461.3 TMA 178.47 ELI 508.5 EL2 206.0 ALF 50.44

LAUNCH DATE DEC 1 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC

DISTANCE 139.207

RL 147.50 LAL -0.00 LOL 68.87 VL 17.148 GAL 27.68 AZL 87.14 HCA 41.15 SMA 88.15 ECC .75576 INC 2.8565 V1 30.207
 RP 107.53 LAP 1.88 LOP 109.99 VP 31.032 GAP -47.84 AZP 87.85 TAL 169.75 TAP 210.91 RCA 21.53 APO 154.78 V2 35.243
 RC 84.254 GL 2.53 GP -.52 ZAL 61.31 ZAP 32.17 ETS 177.78 ZAE 131.95 ETE 186.50 ZAC 58.10 ETC 161.44 CLP 32.17

PLANETOCENTRIC CONIC

C3 294.640 VHL 17.165 DLA 5.33 RAL 5.97 RAD 6571.7 VEL 20.395 PTH 3.16 VHP 27.074 DPA -17.55 RAP 325.75 ECC 5.8490
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 25 25 2952.58 -28.19 92.98 271.85 87.23 7 14 38 2352.6 -28.28 84.31
 90.00 19 43 5 5264.53 26.91 237.81 266.30 80.82 21 10 49 4664.5 25.36 229.49
 100.00 7 49 17 2682.10 -29.79 73.17 271.93 87.36 8 33 59 2082.1 -29.83 64.37
 100.00 21 1 54 5010.24 28.48 218.82 266.01 80.51 22 25 25 4410.2 26.88 210.39
 110.00 9 3 18 2450.46 -34.12 55.80 272.15 87.71 9 44 8 1850.5 -34.06 46.56
 110.00 22 4 23 4814.64 32.75 203.11 265.14 79.61 23 24 38 4214.6 30.97 194.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9197 TRA-2.2070 TC3 -.1249 BAU .4938 SGT 908.5 SGR 466.8 SG3 27.8 ST 379.0 SR 417.8 SS 373.9
 RDE -1.2367 RRA .6398 RC3 -.0113 FAU .01114 RRT -.0362 RRF .0324 RTF -.6587 CRT .7101 CRS .7760 CST .9936
 FDE .4137 FRA .7999 FC3 -.0327 BSP 2273 SGB 1021.4 R23 -.0000 R13 .6587 LSA 634.4 MSA 235.4 SSA 14.5
 BDE 1.5412 BRA 2.2979 BC3 .1254 FSP -59 SGI 908.7 SG2 466.4 TMA 178.55 ELI 522.1 EL2 213.5 ALF 48.91

LAUNCH DATE DEC 1 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

DISTANCE 144.867

RL 147.50 LAL -0.00 LOL 68.87 VL 17.853 GAL 26.42 AZL 87.09 HCA 44.40 SMA 89.62 ECC .72968 INC 2.9112 V1 30.207
 RP 107.51 LAP 2.04 LOP 113.23 VP 31.432 GAP -45.75 AZP 87.92 TAL 168.85 TAP 213.25 RCA 24.23 APO 155.02 V2 35.247
 RC 82.065 GL 2.83 GP -.53 ZAL 60.04 ZAP 30.68 ETS 177.80 ZAE 131.99 ETE 186.92 ZAC 59.79 ETC 161.86 CLP 30.68

PLANETOCENTRIC CONIC

C3 270.914 VHL 16.459 DLA 6.11 RAL 7.03 RAD 6571.6 VEL 19.805 PTH 3.13 VHP 26.095 DPA -17.01 RAP 327.50 ECC 5.4586
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 23 42 2966.69 -28.14 94.01 272.50 86.71 7 13 8 2366.7 -28.30 85.34
 90.00 19 53 13 5229.50 26.50 235.33 266.21 79.64 21 20 22 4629.5 24.80 227.07
 100.00 7 47 56 2694.97 -29.74 74.13 272.61 86.86 8 32 51 2095.0 -29.86 65.32
 100.00 21 11 39 4976.46 28.08 216.39 265.89 79.30 22 34 36 4376.5 26.31 208.04
 110.00 9 2 50 2460.61 -34.08 56.60 272.87 87.24 9 43 50 1860.6 -34.09 47.35
 110.00 22 13 16 4783.58 32.34 200.78 264.91 78.28 23 32 59 4183.6 30.39 192.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9253 TRA-2.2282 TC3 -.1327 BAU .4829 SGT 950.3 SGR 471.3 SG3 30.0 ST 398.4 SR 421.6 SS 390.5
 RDE -1.1968 RRA .6179 RC3 -.0128 FAU .01120 RRT -.0360 RRF .0324 RTF -.6762 CRT .7086 CRS .7768 CST .9934
 FDE .4302 FRA .8283 FC3 -.0358 BSP 2422 SGB 1060.8 R23 -.0001 R13 .6763 LSA 656.3 MSA 241.0 SSA 14.7
 BDE 1.5128 BRA 2.3123 BC3 .1333 FSP -64 SGI 950.5 SG2 470.9 TMA 178.64 ELI 536.3 EL2 221.0 ALF 47.29

LAUNCH DATE DEC 1 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

DISTANCE 150.639

RL 147.50 LAL -1.00 LOL 68.87 VL 18.516 GAL 25.24 AZL 87.04 MCA 47.65 SMA 91.10 ECC .70378 INC 2.9598 V1 30.207
 RP 107.50 LAP 2.19 LOP 116.48 VP 31.818 GAP -43.76 AZP 88.00 TAL 167.95 TAP 215.59 RCA 26.99 APO 155.22 V2 35.251
 RC 79.887 GL 3.14 GP -.55 ZAL 58.83 ZAP 29.22 ETS 177.82 ZAE 132.11 ETE 187.37 ZAC 61.50 ETC 162.25 CLP 29.21

PLANETOCENTRIC CONIC

C3 249.200 VHL 15.786 DLA 6.88 RAL 8.03 RAD 6571.5 VEL 19.249 PTH 3.09 VHP 25.147 DPA -16.46 RAP 329.27 ECC 5.1012
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 21 48 2980.09 -28.09 94.98 273.06 86.23 7 11 28 2380.1 -28.31 86.32
 90.00 20 3 9 5194.10 26.04 232.84 266.06 78.47 21 29 43 4594.1 24.19 224.66
 100.00 7 46 26 2707.13 -29.69 75.03 273.18 86.38 8 31 33 2107.1 -29.88 66.23
 100.00 21 21 12 4942.29 27.62 213.96 265.70 78.09 22 43 34 4342.3 25.70 205.68
 110.00 9 2 12 2470.03 -34.05 57.33 273.48 86.81 9 43 22 1870.0 -34.12 48.09
 110.00 22 21 55 4752.15 31.88 198.44 264.61 76.97 23 41 8 4152.2 29.76 189.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9338 TRA-2.2518 TC3 -.1412 BAU .4728 SGT 995.6 SGR 475.1 SG3 32.3 ST 419.6 SR 424.9 SS 407.8
 RDE -1.1567 RRA .5955 RC3 -.0144 FAU .01125 RRT -.0351 RRF .0321 RTF -.6932 CRT .7078 CRS .7778 CST .9932
 FDE .4474 FRA .8575 FC3 -.0391 BSP 2510 SGB 1103.2 R23 -.0006 R13 .6932 LSA 679.7 MSA 246.2 SSA 14.9
 BDE 1.4866 BRA 2.3292 BC3 .1419 FSP -70 SG1 995.8 SG2 474.7 THA 178.76 EL1 551.8 EL2 228.2 ALF 45.51

LAUNCH DATE DEC 1 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 156.516

RL 147.50 LAL -1.00 LOL 68.87 VL 19.139 GAL 24.13 AZL 87.00 MCA 50.89 SMA 92.60 ECC .67816 INC 3.0037 V1 30.207
 RP 107.49 LAP 2.33 LOP 119.73 VP 32.188 GAP -41.87 AZP 88.10 TAL 167.06 TAP 217.95 RCA 29.80 APO 155.39 V2 35.254
 RC 77.721 GL 3.47 GP -.57 ZAL 57.67 ZAP 27.77 ETS 177.82 ZAE 132.30 ETE 187.83 ZAC 63.23 ETC 162.63 CLP 27.77

PLANETOCENTRIC CONIC

C3 229.308 VHL 15.143 DLA 7.65 RAL 8.99 RAD 6571.3 VEL 18.725 PTH 3.06 VHP 24.230 DPA -15.89 RAP 331.05 ECC 4.7738
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 44 2992.82 -28.02 95.91 273.52 85.77 7 9 37 2392.8 -28.32 87.26
 90.00 20 12 52 5158.26 25.53 230.34 265.85 77.32 21 38 50 4558.3 23.53 222.24
 100.00 7 44 45 2718.60 -29.64 75.88 273.65 85.94 8 30 4 2118.6 -29.89 67.08
 100.00 21 30 32 4907.71 27.11 211.51 265.45 76.90 22 52 20 4307.7 25.04 203.33
 110.00 9 1 24 2478.76 -34.02 58.01 274.00 86.41 9 42 42 1878.8 -34.14 48.77
 110.00 22 30 23 4720.32 31.37 196.10 264.26 75.67 23 49 3 4120.3 29.09 187.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9431 TRA-2.2756 TC3 -.1500 BAU .4625 SGT 1043.3 SGR 478.3 SG3 34.8 ST 442.1 SR 427.6 SS 425.5
 RDE -1.1166 RRA .5727 RC3 -.0162 FAU .01132 RRT -.0337 RRF .0315 RTF -.7093 CRT .7073 CRS .7788 CST .9930
 FDE .4651 FRA .8873 FC3 -.0427 BSP 2587 SGB 1147.7 R23 -.0012 R13 .7094 LSA 704.3 MSA 251.0 SSA 15.1
 BDE 1.4616 BRA 2.3466 BC3 .1509 FSP -76 SG1 1043.4 SG2 477.9 THA 178.88 EL1 568.3 EL2 235.1 ALF 43.65

LAUNCH DATE DEC 1 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 162.493

RL 147.50 LAL -1.00 LOL 68.87 VL 19.725 GAL 23.08 AZL 86.96 MCA 54.14 SMA 94.09 ECC .65293 INC 3.0438 V1 30.207
 RP 107.48 LAP 2.47 LOP 122.97 VP 32.542 GAP -40.07 AZP 88.22 TAL 166.18 TAP 220.32 RCA 32.66 APO 155.53 V2 35.256
 RC 75.571 GL 3.80 GP -.59 ZAL 56.55 ZAP 26.35 ETS 177.82 ZAE 132.58 ETE 188.33 ZAC 64.98 ETC 162.99 CLP 26.34

PLANETOCENTRIC CONIC

C3 211.082 VHL 14.529 DLA 8.40 RAL 9.91 RAD 6571.2 VEL 18.232 PTH 3.02 VHP 23.341 DPA -15.30 RAP 332.83 ECC 4.4739
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 17 29 3004.91 -27.96 96.79 273.89 85.33 7 7 34 2404.9 -28.31 88.14
 90.00 20 22 25 5121.95 24.97 227.83 265.59 76.18 21 47 47 4522.0 -28.82 219.82
 100.00 7 42 54 2729.43 -29.59 76.68 274.03 85.52 8 28 23 2129.4 -29.89 67.88
 100.00 21 39 41 4872.67 26.55 209.06 265.15 75.73 23 0 54 4272.7 24.32 200.97
 110.00 9 0 25 2486.81 -33.98 58.64 274.42 86.04 9 41 52 1886.8 -34.16 49.39
 110.00 22 38 39 4688.06 30.80 193.76 263.85 74.39 23 56 47 4088.1 28.36 185.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9776 TRA-2.3240 TC3 -.1638 BAU .4650 SGT 1110.6 SGR 480.6 SG3 37.6 ST 475.5 SR 429.5 SS 446.1
 RDE -1.0764 RRA .5499 RC3 -.0182 FAU .01126 RRT -.0269 RRF .0292 RTF -.7241 CRT .7119 CRS .7806 CST .9935
 FDE .4864 FRA .9207 FC3 -.0462 BSP 2069 SGB 1210.1 R23 -.0053 R13 .7241 LSA 737.9 MSA 254.8 SSA 15.5
 BDE 1.4540 BRA 2.3881 BC3 .1648 FSP -76 SG1 1110.7 SG2 480.4 THA 179.18 EL1 593.4 EL2 241.7 ALF 40.93

LAUNCH DATE DEC 1 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 168.555

RL 147.50 LAL -1.00 LOL 68.87 VL 20.277 GAL 22.08 AZL 86.92 MCA 57.39 SMA 95.59 ECC .62813 INC 3.0806 V1 30.207
 RP 107.48 LAP 2.59 LOP 126.22 VP 32.881 GAP -38.35 AZP 88.34 TAL 165.32 TAP 222.71 RCA 35.55 APO 155.63 V2 35.258
 RC 73.439 GL 4.15 GP -.61 ZAL 55.49 ZAP 24.94 ETS 177.80 ZAE 132.93 ETE 188.85 ZAC 66.75 ETC 163.33 CLP 24.93

PLANETOCENTRIC CONIC

C3 194.319 VHL 13.940 DLA 9.15 RAL 10.77 RAD 6571.1 VEL 17.766 PTH 2.99 VHP 22.478 DPA -14.69 RAP 334.63 ECC 4.1980
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 15 1 3016.32 -27.89 97.62 274.15 84.92 7 5 18 2416.3 -28.31 88.97
 90.00 20 31 46 5085.13 24.34 225.31 265.26 75.07 21 56 31 4485.1 22.06 217.39
 100.00 7 40 50 2739.55 -29.53 77.42 274.31 85.13 8 26 30 2139.6 -29.89 68.64
 100.00 21 48 38 4837.13 25.93 206.60 264.78 74.58 23 9 15 4237.1 23.56 198.61
 110.00 8 59 16 2494.14 -33.94 59.20 274.72 85.70 9 40 50 1894.1 -34.17 49.97
 110.00 22 46 42 4655.32 30.18 191.41 263.39 73.13 24 4 18 4055.3 27.58 183.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9294 TRA-2.2883 TC3 -.1616 BAU .4231 SGT 1120.9 SGR 482.5 SG3 40.3 ST 477.3 SR 431.2 SS 459.2
 RDE -1.0369 RRA .5259 RC3 -.0204 FAU .01169 RRT -.0372 RRF .0315 RTF -.7409 CRT .6999 CRS .7801 CST .9918
 FDE .4984 FRA .9450 FC3 -.0521 BSP 3540 SGB 1220.3 R23 .0023 R13 .7410 LSA 746.2 MSA 259.8 SSA 15.3
 BDE 1.3925 BRA 2.3480 BC3 .1629 FSP -97 SG1 1121.1 SG2 482.1 THA 178.87 EL1 593.7 EL2 247.6 ALF 40.87

LAUNCH DATE DEC 1 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 174.708

RL 147.50 LAL -0.00 LOL 68.87 VL 20.795 GAL 21.13 AZL 86.89 MCA 60.64 SMA 97.08 ECC .60389 INC 3.1149 V1 30.207
 RP 107.48 LAP 2.71 LOP 129.47 VP 33.204 GAP -36.71 AZP 88.47 TAL 164.48 TAP 225.11 RCA 38.45 APO 155.70 V2 35.259
 RC 71.328 GL 4.52 GP -.63 ZAL 54.48 ZAP 23.54 ETS 177.77 ZAE 133.38 ETE 189.40 ZAC 68.54 ETC 163.65 CLP 23.53

PLANETOCENTRIC CONIC

C3 178.961 VHL 13.378 CLA 9.89 RAL 11.59 RAD 6570.9 VEL 17.329 PTH 2.95 VHP 21.642 DPA -14.06 RAP 336.42 ECC 3.9452
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 22 3027.20 -27.83 98.40 274.31 84.53 7 2 49 2427.2 -28.29 89.77
 90.00 20 40 58 5047.75 23.66 222.78 264.88 73.98 22 5 6 4447.8 21.24 214.95
 100.00 7 38 35 2749.12 -29.47 78.13 274.49 84.77 8 24 24 2149.1 -29.89 69.35
 100.00 21 57 26 4801.06 25.25 204.14 264.37 73.45 23 17 27 4201.1 22.74 196.24
 110.00 8 57 55 2500.86 -33.91 59.73 274.94 85.39 9 39 36 1900.9 -34.17 50.49
 110.00 22 54 35 4622.09 29.50 189.06 262.88 71.89 24 11 37 4022.1 26.74 180.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9428 TRA-2.3135 TC3 -.1713 BAU .4133 SGT 1176.7 SGR 483.5 SG3 43.5 ST 504.2 SR 432.0 SS 478.9
 RDE -.9970 RRA .5025 RC3 -.0228 FAU .01180 RRT -.0341 RRF .0300 RTF -.7551 CRT .7008 CRS .7815 CST .9917
 FDE .5185 FRA .9774 FC3 -.0571 BSP 3543 SGB 1272.1 R23 .0009 R13 .7551 LSA 775.1 MSA 263.2 SSA 15.5
 BDE 1.3722 BRA 2.3674 BC3 .1728 FSP -104 SG1 1176.8 SG2 483.2 THA 179.03 EL1 613.9 EL2 253.2 ALF 38.76

LAUNCH DATE DEC 1 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 180.940

RL 147.50 LAL -0.00 LOL 68.87 VL 21.283 GAL 20.23 AZL 86.85 MCA 63.88 SMA 98.55 ECC .58024 INC 3.1471 V1 30.207
 RP 107.48 LAP 2.83 LOP 132.72 VP 33.512 GAP -35.13 AZP 88.61 TAL 163.65 TAP 227.53 RCA 41.37 APO 155.74 V2 35.259
 RC 69.241 GL 4.90 GP -.65 ZAL 53.52 ZAP 22.16 ETS 177.72 ZAE 133.91 ETE 189.99 ZAC 70.35 ETC 163.96 CLP 22.15

PLANETOCENTRIC CONIC

C3 164.855 VHL 12.840 CLA 10.62 RAL 12.36 RAD 6570.8 VEL 16.917 PTH 2.92 VHP 20.831 DPA -13.42 RAP 338.23 ECC 3.7131
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 9 29 3037.55 -27.76 99.15 274.38 84.16 7 0 6 2437.5 -28.28 90.53
 90.00 20 50 1 5009.77 22.93 220.24 264.45 72.91 22 13 31 4409.8 20.37 212.50
 100.00 7 36 7 2758.12 -29.41 78.79 274.57 84.42 8 22 5 2158.1 -29.88 70.02
 100.00 22 6 4 4764.43 24.52 201.66 263.91 72.34 23 25 28 4164.4 21.87 193.86
 110.00 8 56 23 2506.98 -33.87 60.20 275.05 85.12 9 38 10 1907.0 -34.18 50.97
 110.00 23 2 18 4588.34 28.76 186.71 262.32 70.68 24 18 46 3988.3 25.86 178.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9494 TRA-2.3305 TC3 -.1795 BAU .3996 SGT 1229.5 SGR 483.8 SG3 46.8 ST 529.6 SR 432.2 SS 498.4
 RDE -.9574 RRA .4790 RC3 -.0253 FAU .01197 RRT -.0322 RRF .0286 RTF -.7688 CRT .7005 CRS .7828 CST .9915
 FDE .5385 FRA 1.0098 FC3 -.0628 BSP 3711 SGB 1321.2 R23 .0007 R13 .7689 LSA 802.9 MSA 266.2 SSA 15.6
 BDE 1.3483 BRA 2.3792 BC3 .1813 FSP -113 SG1 1229.6 SG2 483.5 THA 179.14 EL1 633.0 EL2 258.1 ALF 36.86

LAUNCH DATE DEC 1 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 187.245

RL 147.50 LAL -0.00 LOL 68.87 VL 21.742 GAL 19.37 AZL 86.82 MCA 67.13 SMA 100.02 ECC .55722 INC 3.1775 V1 30.207
 RP 107.48 LAP 2.93 LOP 135.97 VP 33.804 GAP -33.62 AZP 88.76 TAL 162.85 TAP 229.98 RCA 44.29 APO 155.75 V2 35.258
 RC 67.184 GL 5.29 GP -.68 ZAL 52.61 ZAP 20.79 ETS 177.65 ZAE 134.54 ETE 190.61 ZAC 72.17 ETC 164.25 CLP 20.78

PLANETOCENTRIC CONIC

C3 151.900 VHL 12.325 CLA 11.35 RAL 13.09 RAD 6570.7 VEL 16.530 PTH 2.88 VHP 20.044 DPA -12.76 RAP 340.03 ECC 3.4999
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 22 3047.41 -27.69 99.87 274.36 83.81 6 57 9 2447.4 -28.26 91.25
 90.00 20 58 56 4971.17 22.13 217.69 263.97 71.87 22 21 47 4371.2 19.45 210.05
 100.00 7 33 26 2766.61 -29.36 79.42 274.56 84.10 8 19 32 2166.6 -29.86 70.65
 100.00 22 14 33 4727.20 23.72 199.18 263.40 71.26 23 33 20 4127.2 20.95 191.48
 110.00 8 54 38 2512.52 -33.84 60.63 275.07 84.86 9 36 30 1912.5 -34.18 51.40
 110.00 23 9 50 4554.05 27.97 184.36 261.72 69.50 24 25 44 3954.0 24.92 176.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9578 TRA-2.3478 TC3 -.1881 BAU .3863 SGT 1285.5 SGR 483.3 SG3 50.5 ST 556.8 SR 431.7 SS 518.9
 RDE -.9180 RRA .4555 RC3 -.0280 FAU .01215 RRT -.0296 RRF .0269 RTF -.7819 CRT .7007 CRS .7842 CST .9913
 FDE .5598 FRA 1.0435 FC3 -.0693 BSP 3847 SGB 1373.4 R23 .0001 R13 .7819 LSA 832.6 MSA 268.5 SSA 15.8
 BDE 1.3267 BRA 2.3916 BC3 .1902 FSP -123 SG1 1285.6 SG2 483.0 THA 179.26 EL1 653.9 EL2 262.2 ALF 34.92

LAUNCH DATE DEC 1 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 193.619

RL 147.50 LAL -0.00 LOL 68.87 VL 22.173 GAL 18.54 AZL 86.79 MCA 70.38 SMA 101.47 ECC .53487 INC 3.2065 V1 30.207
 RP 107.48 LAP 3.02 LOP 139.22 VP 34.081 GAP -32.18 AZP 88.92 TAL 162.06 TAP 232.44 RCA 47.20 APO 155.74 V2 35.257
 RC 65.159 GL 5.70 GP -.71 ZAL 51.74 ZAP 19.43 ETS 177.54 ZAE 135.26 ETE 191.28 ZAC 74.00 ETC 164.52 CLP 19.42

PLANETOCENTRIC CONIC

C3 140.000 VHL 11.832 CLA 12.08 RAL 13.77 RAD 6570.5 VEL 16.166 PTH 2.84 VHP 19.281 DPA -12.09 RAP 341.84 ECC 3.3040
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 3 0 3056.85 -27.62 100.55 274.23 83.47 6 53 57 2456.8 -28.23 91.94
 90.00 21 7 43 4931.90 21.28 215.13 263.45 70.86 22 29 54 4331.9 18.47 207.58
 100.00 7 30 30 2774.64 -29.30 80.01 274.45 83.79 8 16 45 2174.6 -29.85 71.24
 100.00 22 22 53 4689.34 22.87 196.69 262.84 70.21 23 41 3 4089.3 19.97 189.10
 110.00 8 52 40 2517.54 -33.81 61.02 274.98 84.64 9 34 38 1917.5 -34.18 51.79
 110.00 23 17 13 4519.20 27.12 182.01 261.07 68.34 24 32 32 3919.2 23.93 174.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9650 TRA-2.3620 TC3 -.1963 BAU .3719 SGT 1342.5 SGR 482.0 SG3 54.4 ST 584.5 SR 430.4 SS 540.0
 RDE -.8790 RRA .4321 RC3 -.0310 FAU .01237 RRT -.0268 RRF .0249 RTF -.7943 CRT .7011 CRS .7858 CST .9911
 FDE .5819 FRA 1.0780 FC3 -.0765 BSP 4020 SGB 1426.4 R23 -.0004 R13 .7943 LSA 863.3 MSA 270.2 SSA 15.9
 BDE 1.3053 BRA 2.4012 BC3 .1987 FSP -134 SG1 1342.5 SG2 481.8 THA 179.37 EL1 675.6 EL2 265.6 ALF 33.05

LAUNCH DATE DEC 1 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 200.054

RL 147.50 LAL -0.00 LOL 68.87 VL 22.578 GAL 17.75 AZL 86.77 HCA 73.63 SMA 102.89 ECC .51323 INC 3.2344 V1 30.207
 RP 107.49 LAP 3.10 LOP 142.47 VP 34.344 GAP -30.78 AZP 89.09 TAL 161.30 TAP 234.93 RCA 50.09 APO 155.70 V2 35.254
 RC 63.173 GL 6.13 GP -.74 ZAL 50.93 ZAP 18.08 ETS 177.39 ZAE 136.09 ETE 192.00 ZAC 75.84 ETC 164.78 CLP 18.07

PLANETOCENTRIC CONIC

C3 129.067 VHL 11.361 CLA 12.80 RAL 14.40 RAD 6570.4 VEL 15.824 PTH 2.80 VHP 18.540 DPA -11.41 RAP 343.65 ECC 3.1241
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 59 22 3065.94 -27.54 101.20 274.02 83.15 6 50 28 2465.9 -28.21 92.60
 90.00 21 16 23 4891.93 20.36 212.56 262.88 69.89 22 37 55 4291.9 17.44 205.10
 100.00 7 27 20 2782.26 -29.24 80.56 274.24 83.50 8 13 42 2182.3 -29.83 71.81
 100.00 22 31 6 4650.84 21.97 194.19 262.24 69.20 23 48 37 4050.8 18.94 186.70
 110.00 8 50 29 2522.08 -33.78 61.37 274.81 84.43 9 32 31 1922.1 -34.18 52.15
 110.00 23 24 26 4483.79 26.20 179.66 260.38 67.22 24 39 10 3883.8 22.89 172.07

DIFFERENTIAL CORRECTIONS

TDE -.9699 TRA-2.3723 TC3 -.2035 BAU .3560
 RDE -.8403 RRA .4089 RC3 -.0341 FAU .01263
 FDE .6049 FRA 1.1133 FC3 -.0847 BSP 4255
 BDE 1.2833 BRA 2.4072 BC3 .2063 FSP -146

MID-COURSE EXECUTION ACCURACY

SGT 1399.4 SGR 479.9 SG3 58.7
 RRT -.0243 RRF .0227 RTF -.8063
 SGB 1479.4 R23 -.0005 R13 .8063
 SG1 1399.5 SG2 479.7 THA 179.46

ORBIT DETERMINATION ACCURACY

ST 612.3 SR 428.5 SS 561.6
 CRT .7012 CRS .7874 CST .9908
 LSA 894.5 MSA 271.4 SSA 16.0
 EL1 697.6 EL2 268.2 ALF 31.26

LAUNCH DATE DEC 1 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 206.546

RL 147.50 LAL -0.00 LOL 68.87 VL 22.959 GAL 17.00 AZL 86.74 HCA 76.87 SMA 104.30 ECC .49230 INC 3.2613 V1 30.207
 RP 107.50 LAP 3.18 LOP 145.72 VP 34.593 GAP -29.44 AZP 89.26 TAL 160.57 TAP 237.44 RCA 52.95 APO 155.64 V2 35.251
 RC 61.231 GL 6.57 GP -.77 ZAL 50.18 ZAP 16.74 ETS 177.20 ZAE 137.03 ETE 192.78 ZAC 77.68 ETC 165.02 CLP 16.72

PLANETOCENTRIC CONIC

C3 119.025 VHL 10.910 CLA 13.52 RAL 14.98 RAD 6570.2 VEL 15.504 PTH 2.77 VHP 17.820 DPA -10.72 RAP 345.46 ECC 2.9589
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 27 3074.76 -27.47 101.84 273.71 82.84 6 46 42 2474.8 -28.18 93.24
 90.00 21 24 57 4851.24 19.39 209.97 262.27 68.95 22 45 48 4251.2 16.36 202.61
 100.00 7 23 53 2789.57 -29.18 81.10 273.95 83.23 8 10 23 2189.6 -29.82 72.35
 100.00 22 39 12 4611.67 21.00 191.68 261.60 68.22 23 56 4 4011.7 17.86 184.30
 110.00 8 48 3 2526.20 -33.75 61.69 274.53 84.24 9 30 10 1926.2 -34.18 52.47
 110.00 23 31 31 4447.80 25.23 177.31 259.66 66.14 24 45 39 3847.8 21.79 169.85

DIFFERENTIAL CORRECTIONS

TDE -.9753 TRA-2.3808 TC3 -.2103 BAU .3400
 RDE -.8020 RRA .3859 RC3 -.0375 FAU .01293
 FDE .6292 FRA 1.1500 FC3 -.0940 BSP 4488
 BDE 1.2627 BRA 2.4119 BC3 .2136 FSP -159

MID-COURSE EXECUTION ACCURACY

SGT 1458.3 SGR 477.0 SG3 63.3
 RRT -.0213 RRF .0202 RTF -.8177
 SGB 1534.4 R23 -.0008 R13 .8177
 SG1 1458.4 SG2 476.9 THA 179.55

ORBIT DETERMINATION ACCURACY

ST 641.4 SR 425.8 SS 584.2
 CRT .7017 CRS .7892 CST .9906
 LSA 927.2 MSA 272.0 SSA 16.1
 EL1 721.0 EL2 269.9 ALF 29.52

LAUNCH DATE DEC 1 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 213.089

RL 147.50 LAL -0.00 LOL 68.87 VL 23.316 GAL 16.28 AZL 86.71 HCA 80.12 SMA 105.67 ECC .47212 INC 3.2876 V1 30.207
 RP 107.51 LAP 3.24 LOP 148.97 VP 34.827 GAP -28.16 AZP 89.44 TAL 159.86 TAP 239.98 RCA 55.78 APO 155.56 V2 35.248
 RC 59.338 GL 7.04 GP -.81 ZAL 49.47 ZAP 15.41 ETS 176.94 ZAE 138.09 ETE 193.62 ZAC 79.54 ETC 165.25 CLP 15.39

PLANETOCENTRIC CONIC

C3 109.805 VHL 10.479 CLA 14.24 RAL 15.52 RAD 6570.1 VEL 15.203 PTH 2.73 VHP 17.122 DPA -10.02 RAP 347.26 ECC 2.8071
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 14 3083.40 -27.40 102.46 273.31 82.54 6 42 38 2483.4 -28.14 93.87
 90.00 21 33 26 4809.80 18.36 207.37 261.62 68.05 22 53 36 4209.8 15.22 200.10
 100.00 7 20 10 2796.63 -29.13 81.62 273.56 82.96 8 6 46 2196.6 -29.80 72.88
 100.00 22 47 12 4571.81 19.97 189.17 260.92 67.28 24 3 24 3971.8 16.72 181.88
 110.00 8 45 23 2529.97 -33.73 61.98 274.17 84.07 9 27 33 1930.0 -34.18 52.77
 110.00 23 38 28 4411.23 24.21 174.97 258.90 65.09 24 51 59 3811.2 20.64 167.64

DIFFERENTIAL CORRECTIONS

TDE -.9836 TRA-2.3902 TC3 -.2177 BAU .3252
 RDE -.7643 RRA .3633 RC3 -.0411 FAU .01324
 FDE .6555 FRA 1.1886 FC3 -.1044 BSP 4659
 BDE 1.2456 BRA 2.4177 BC3 .2215 FSP -173

MID-COURSE EXECUTION ACCURACY

SGT 1521.6 SGR 473.3 SG3 68.4
 RRT -.0171 RRF .0172 RTF -.8283
 SGB 1593.6 R23 -.0016 R13 .8283
 SG1 1521.7 SG2 473.3 THA 179.66

ORBIT DETERMINATION ACCURACY

ST 673.1 SR 422.4 SS 608.1
 CRT .7031 CRF .7913 CST .9905
 LSA 962.9 MSA 271.7 SSA 16.2
 EL1 747.2 EL2 270.6 ALF 27.76

LAUNCH DATE DEC 1 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 219.679

RL 147.50 LAL -0.00 LOL 68.87 VL 23.652 GAL 15.58 AZL 86.69 HCA 83.36 SMA 107.02 ECC .45269 INC 3.3133 V1 30.207
 RP 107.52 LAP 3.29 LOP 152.23 VP 35.049 GAP -26.92 AZP 89.62 TAL 159.18 TAP 242.55 RCA 58.57 APO 155.46 V2 35.243
 RC 57.501 GL 7.52 GP -.85 ZAL 48.81 ZAP 14.08 ETS 176.60 ZAE 139.26 ETE 194.54 ZAC 81.40 ETC 165.47 CLP 14.05

PLANETOCENTRIC CONIC

C3 101.338 VHL 10.067 CLA 14.96 RAL 16.01 RAD 6570.0 VEL 14.922 PTH 2.69 VHP 16.445 DPA -9.32 RAP 349.06 ECC 2.6678
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 46 42 3091.97 -27.32 103.08 272.82 82.24 6 38 14 2492.0 -28.11 94.50
 90.00 21 41 52 4767.59 17.26 204.75 260.94 67.20 23 1 19 4167.6 14.02 197.57
 100.00 7 16 8 2803.53 -29.07 82.12 273.08 82.70 8 2 52 2203.5 -29.77 73.39
 100.00 22 55 6 4531.26 18.88 186.65 260.21 66.39 24 10 38 3931.3 15.53 179.46
 110.00 8 42 27 2533.46 -33.70 62.25 273.72 83.91 9 24 41 1933.5 -34.18 53.04
 110.00 23 45 17 4374.09 23.12 172.63 258.12 64.09 24 58 11 3774.1 19.45 165.42

DIFFERENTIAL CORRECTIONS

TDE -.9895 TRA-2.3948 TC3 -.2234 BAU .3087
 RDE -.7271 RRA .3411 RC3 -.0448 FAU .01360
 FDE .6831 FRA 1.2284 FC3 -.1162 BSP 4896
 BDE 1.2279 BRA 2.4190 BC3 .2278 FSP -189

MID-COURSE EXECUTION ACCURACY

SGT 1584.3 SGR 468.8 SG3 73.8
 RRT -.0132 RRF .0140 RTF -.8385
 SGB 1652.2 R23 -.0019 R13 .8386
 SG1 1584.3 SG2 468.8 THA 179.75

ORBIT DETERMINATION ACCURACY

ST 704.6 SR 418.2 SS 632.8
 CRT .7044 CRS .7935 CST .9903
 LSA 999.1 MSA 270.9 SSA 16.3
 EL1 773.5 EL2 270.4 ALF 26.12

LAUNCH DATE DEC 1 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 226.309

RL 147.50 LAL -0.00 LOL 68.87 VL 23.967 GAL 14.92 AZL 86.66 HCA 86.61 SMA 108.33 ECC .43401 INC 3.3386 V1 30.207
 RP 107.54 LAP 3.33 LOP 155.48 VP 35.257 GAP -25.72 AZP 89.80 TAL 158.53 TAP 245.14 RCA 61.31 APO 155.34 V2 35.238
 RC 55.726 GL 8.02 GP -90 ZAL 48.21 ZAP 12.75 ETS 176.14 ZAE 140.55 ETE 195.56 ZAC 83.26 ETC 165.67 CLP 12.72

PLANETOCENTRIC CONIC

C3 93.568 VHL 9.673 DLA 15.67 RAL 16.44 RAD 6569.8 VEL 14.660 PTH 2.65 VHP 15.787 DPA -8.61 RAP 350.86 ECC 2.5399
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 41 49 3100.56 -27.24 103.69 272.25 81.94 6 33 30 2500.6 -28.07 95.12
 90.00 21 50 14 4724.59 16.11 202.12 260.24 66.39 23 8 59 4124.6 12.78 195.03
 100.00 7 11 48 2810.38 -29.01 82.62 272.52 82.44 7 58 38 2210.4 -29.75 73.90
 100.00 23 2 56 4490.01 17.74 184.12 259.47 65.54 24 17 46 3890.0 14.29 177.02
 110.00 8 39 15 2536.76 -33.68 62.50 273.19 83.77 9 21 32 1936.8 -34.17 53.30
 110.00 23 51 59 4336.39 21.98 170.30 257.31 63.14 25 4 15 3736.4 18.20 163.21

DIFFERENTIAL CORRECTIONS

TDE -.9955 TRA-2.3970 TC3 -.2283 BAU .2920
 RDE -.6905 RRA .3193 RC3 -.0488 FAU .01401
 FDE .7127 FRA 1.2700 FC3 -.1296 BSP 5143
 BOE 1.2115 BRA 2.4181 BC3 .2335 FSP -207

MID-COURSE EXECUTION ACCURACY

SGT 1648.4 SGR 463.5 SG3 79.7
 RRT -.0089 RRF .0105 RTF -.8483
 SGB 1712.3 R23 -.0024 R13 .8483
 SG1 1648.4 SG2 463.5 THA 179.84

ORBIT DETERMINATION ACCURACY

ST 737.3 SR 413.3 SS 658.7
 CRT .7061 CRS .7959 CST .9901
 LSA 1037.0 MSA 269.4 SSA 16.4
 EL1 801.1 EL2 269.3 ALF 24.55

LAUNCH DATE DEC 1 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 232.976

RL 147.50 LAL -0.00 LOL 68.87 VL 24.263 GAL 14.28 AZL 86.64 HCA 89.85 SMA 109.60 ECC .41609 INC 3.3638 V1 30.207
 RP 107.56 LAP 3.36 LOP 158.72 VP 35.453 GAP -24.57 AZP 89.99 TAL 157.92 TAP 247.77 RCA 64.00 APO 155.21 V2 35.232
 RC 54.021 GL 8.53 GP -.95 ZAL 47.66 ZAP 11.42 ETS 175.53 ZAE 141.97 ETE 196.68 ZAC 85.12 ETC 165.86 CLP 11.38

PLANETOCENTRIC CONIC

C3 86.440 VHL 9.297 DLA 16.39 RAL 16.83 RAD 6569.7 VEL 14.415 PTH 2.62 VHP 15.149 DPA -7.89 RAP 352.65 ECC 2.4226
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 36 34 3109.31 -27.15 104.32 271.60 81.64 6 28 23 2509.3 -28.03 95.76
 90.00 21 58 36 4680.77 14.89 199.48 259.50 65.64 23 16 36 4080.8 11.48 192.46
 100.00 7 7 7 2817.28 -28.94 83.13 271.88 82.19 7 54 5 2217.3 -29.72 74.41
 100.00 23 10 43 4448.03 16.54 181.58 258.71 64.74 24 24 51 3848.0 13.00 174.58
 110.00 8 35 46 2539.94 -33.65 62.75 272.57 83.62 9 18 6 1939.9 -34.17 53.54
 110.00 0 2 30 4298.14 20.78 167.98 256.48 62.23 1 14 8 3698.1 16.90 161.00

DIFFERENTIAL CORRECTIONS

TDE -1.0021 TRA-2.3974 TC3 -.2323 BAU .2754
 RDE -.6546 RRA .2981 RC3 -.0530 FAU .01446
 FDE .7445 FRA 1.3136 FC3 -.1448 BSP 5383
 BOE 1.1969 BRA 2.4158 BC3 .2383 FSP -225

MID-COURSE EXECUTION ACCURACY

SGT 1714.5 SGR 457.3 SG3 86.2
 RRT -.0041 RRF .0067 RTF -.8574
 SGB 1774.5 R23 -.0029 R13 .8574
 SG1 1714.5 SG2 457.3 THA 179.93

ORBIT DETERMINATION ACCURACY

ST 771.3 SR 407.5 SS 686.0
 CRT .7083 CRS .7985 CST .9900
 LSA 1077.0 MSA 267.2 SSA 16.5
 EL1 830.4 EL2 267.2 ALF .23.03

LAUNCH DATE DEC 1 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 239.675

RL 147.50 LAL -0.00 LOL 68.87 VL 24.540 GAL 13.67 AZL 86.61 HCA 93.10 SMA 110.84 ECC .39893 INC 3.3890 V1 30.207
 RP 107.58 LAP 3.38 LOP 161.97 VP 35.637 GAP -23.45 AZP 90.18 TAL 157.33 TAP 250.43 RCA 66.62 APO 155.06 V2 35.226
 RC 52.393 GL 9.07 GP -1.00 ZAL 47.17 ZAP 10.09 ETS 174.69 ZAE 143.52 ETE 197.94 ZAC 86.98 ETC 166.03 CLP 10.05

PLANETOCENTRIC CONIC

C3 79.904 VHL 8.939 DLA 17.11 RAL 17.17 RAD 6569.6 VEL 14.186 PTH 2.58 VHP 14.531 DPA -7.18 RAP 354.43 ECC 2.3150
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 55 3118.36 -27.06 104.96 270.86 81.33 6 22 53 2518.4 -27.98 96.42
 90.00 22 6 57 4636.10 13.62 196.82 258.75 64.93 23 24 13 4036.1 10.13 189.88
 100.00 7 2 5 2824.36 -28.88 83.64 271.17 81.92 7 49 9 2224.4 -29.69 74.93
 100.00 23 18 28 4405.34 15.28 179.03 257.93 63.99 24 31 53 3805.3 11.66 172.11
 110.00 8 31 58 2543.11 -33.63 62.99 271.88 83.48 9 14 21 1943.1 -34.17 53.79
 110.00 0 9 0 4259.35 19.54 165.66 255.62 61.38 1 19 59 3659.4 15.56 158.79

DIFFERENTIAL CORRECTIONS

TDE -1.0088 TRA-2.3952 TC3 -.2351 BAU .2586
 RDE -.6193 RRA .2776 RC3 -.0574 FAU .01497
 FDE .7788 FRA 1.3595 FC3 -.1621 BSP 5634
 BOE 1.1838 BRA 2.4112 BC3 .2420 FSP -246

MID-COURSE EXECUTION ACCURACY

SGT 1781.9 SGR 450.3 SG3 93.2
 RRT .0010 RRF .0026 RTF -.8661
 SGB 1837.9 R23 .0036 R13 -.8661
 SG1 1781.9 SG2 450.3 THA .02

ORBIT DETERMINATION ACCURACY

ST 806.5 SR 400.9 SS 714.7
 CRT .7108 CRS .8013 CST .9898
 LSA 1118.9 MSA 264.3 SSA 16.5
 EL1 861.1 EL2 264.1 ALF 21.59

LAUNCH DATE DEC 1 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 246.401

RL 147.50 LAL -0.00 LOL 68.87 VL 24.800 GAL 13.09 AZL 86.59 HCA 96.34 SMA 112.04 ECC .38251 INC 3.4143 V1 30.207
 RP 107.60 LAP 3.39 LOP 165.22 VP 35.809 GAP -22.38 AZP 90.38 TAL 156.78 TAP 253.12 RCA 69.18 APO 154.90 V2 35.219
 RC 50.852 GL 9.63 GP -1.06 ZAL 46.73 ZAP 8.77 ETS 173.53 ZAE 145.20 ETE 199.36 ZAC 88.83 ETC 166.19 CLP 8.70

PLANETOCENTRIC CONIC

C3 73.914 VHL 8.597 DLA 17.83 RAL 17.46 RAD 6569.4 VEL 13.974 PTH 2.55 VHP 13.930 DPA -6.47 RAP 356.21 ECC 2.2164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 50 3127.87 -26.96 105.64 270.06 81.00 6 16 58 2527.9 -27.93 97.11
 90.00 22 15 20 4590.55 12.29 194.13 257.97 64.29 23 31 50 3990.6 8.73 187.26
 100.00 6 56 39 2831.75 -28.81 84.18 270.37 81.65 7 43 51 2231.7 -29.66 75.48
 100.00 23 26 11 4361.91 13.97 176.48 257.13 63.30 24 38 53 3761.9 10.27 169.64
 110.00 8 27 52 2546.37 -33.60 63.24 271.11 83.33 9 10 18 1946.4 -34.16 54.05
 110.00 0 15 24 4220.04 18.24 163.35 254.76 60.58 1 25 44 3620.0 14.18 156.59

DIFFERENTIAL CORRECTIONS

TDE -1.0161 TRA-2.3906 TC3 -.2367 BAU .2417
 RDE -.5848 RRA .2577 RC3 -.0619 FAU .01552
 FDE .8160 FRA 1.4078 FC3 -.1818 BSP 5885
 BOE 1.1724 BRA 2.4044 BC3 .2446 FSP -269

MID-COURSE EXECUTION ACCURACY

SGT 1850.7 SGR 442.5 SG3 100.9
 RRT .0065 RRF -.0017 RTF -.8744
 SGB 1902.8 R23 .0043 R13 -.8744
 SG1 1850.7 SG2 442.5 THA .10

ORBIT DETERMINATION ACCURACY

ST 843.1 SR 393.5 SS 745.1
 CRT .7138 CRS .8043 CST .9898
 LSA 1163.0 MSA 260.8 SSA 16.6
 EL1 893.3 EL2 260.1 ALF 20.21

LAUNCH DATE DEC 1 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 253.150

RL 147.50 LAL -.00 LOL 68.87 VL 25.043 GAL 12.53 AZL 86.56 HCA 99.58 SMA 113.20 ECC .36684 INC 3.4399 V1 30.207
 RP 107.62 LAP 3.39 LOP 168.46 VP 35.970 GAP -21.34 AZP 90.57 TAL 156.26 TAP 255.84 RCA 71.67 APO 154.72 V2 35.211
 RC 49.405 GL 10.21 GP -1.13 ZAL 46.35 ZAP 7.44 ETS 171.85 ZAE 147.00 ETE 200.98 ZAC 90.68 ETC 166.34 CLP 7.35

PLANETOCENTRIC CONIC

C3 68.428 VHL 8.272 DLA 18.56 RAL 17.70 RAD 6569.3 VEL 13.776 PTH 2.52 VHP 13.348 DPA -5.76 RAP 357.97 ECC 2.1262
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 17 3137.99 -26.85 106.36 269.18 80.66 6 10 35 2538.0 -27.87 97.84
 90.00 22 23 46 4544.09 10.91 191.42 257.19 63.71 23 39 30 3944.1 7.29 184.61
 100.00 6 50 49 2839.59 -28.73 84.75 269.51 81.36 7 38 9 2239.6 -29.62 76.06
 100.00 23 33 55 4317.73 12.60 173.91 256.31 62.67 24 45 53 3717.7 8.84 167.14
 110.00 8 23 26 2549.83 -33.58 63.51 270.28 83.18 9 5 56 1949.8 -34.16 54.32
 110.00 0 21 44 4180.25 16.89 161.05 253.88 59.83 1 31 24 3580.2 12.76 154.38

DIFFERENTIAL CORRECTIONS

TDE-1.0238 TRA-2.3035 TC3 -.2366 BAU .2248
 RDE -.5511 RRA .2385 RC3 -.0666 FAU .01614
 FDE .8565 FRA 1.4389 FC3 -.2042 BSP 6138
 BDE 1.1627 BRA 2.3954 BC3 .2458 FSP -294

MID-COURSE EXECUTION ACCURACY

SGT 1920.6 SGR 433.8 SG3 109.4
 RRT .0124 RRF -.0063 RTF -.8822
 SGB 1969.0 R23 .0052 R13 -.8822
 SG1 1920.6 SG2 433.8 THA .17

ORBIT DETERMINATION ACCURACY

ST 880.9 SR 385.3 SS 777.3
 CRT .7172 CRS .8075 CST .9897
 LSA 1209.3 MSA 256.6 SSA 16.6
 EL1 927.0 EL2 255.1 ALF 18.90

LAUNCH DATE DEC 1 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 259.918

RL 147.50 LAL -.00 LOL 68.87 VL 25.271 GAL 12.00 AZL 86.53 HCA 102.81 SMA 114.32 ECC .35189 INC 3.4660 V1 30.207
 RP 107.65 LAP 3.38 LOP 171.71 VP 36.121 GAP -20.34 AZP 90.77 TAL 155.78 TAP 258.60 RCA 74.09 APO 154.54 V2 35.202
 RC 48.064 GL 10.82 GP -1.21 ZAL 46.02 ZAP 6.11 ETS 169.30 ZAE 148.92 ETE 202.85 ZAC 92.52 ETC 166.48 CLP 5.99

PLANETOCENTRIC CONIC

C3 63.407 VHL 7.963 DLA 19.28 RAL 17.88 RAD 6569.2 VEL 13.593 PTH 2.48 VHP 12.784 DPA -5.07 RAP 359.72 ECC 2.0435
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 14 3148.94 -26.73 107.14 268.23 80.28 6 3 42 2548.9 -27.80 98.64
 90.00 22 32 19 4496.66 9.46 188.69 256.39 63.19 23 47 15 3896.7 5.79 181.93
 100.00 6 44 32 2848.04 -28.64 85.36 268.59 81.05 7 32 0 2248.0 -29.58 76.68
 100.00 23 41 41 4272.78 11.18 171.33 255.49 62.10 24 52 54 3672.8 7.36 164.62
 110.00 8 18 39 2553.61 -33.55 63.80 269.39 83.01 9 1 12 1953.6 -34.15 54.61
 110.00 0 28 0 4139.98 15.50 158.76 252.99 59.14 1 37 0 3540.0 11.29 152.18

DIFFERENTIAL CORRECTIONS

TDE-1.0321 TRA-2.3742 TC3 -.2349 BAU .2081
 RDE -.5181 RRA .2202 RC3 -.0714 FAU .01682
 FDE .9006 FRA 1.5132 FC3 -.2297 BSP 6387
 BDE 1.1549 BRA 2.3844 BC3 .2455 FSP -322

MID-COURSE EXECUTION ACCURACY

SGT 1991.8 SGR 424.3 SG3 118.6
 RRT .0185 RRF -.0109 RTF -.8896
 SGB 2036.5 R23 .0063 R13 -.8895
 SG1 1991.8 SG2 424.3 THA .24

ORBIT DETERMINATION ACCURACY

ST 920.1 SR 376.2 SS 811.5
 CRT .7210 CRS .8108 CST .9897
 LSA 1258.1 MSA 251.8 SSA 16.6
 EL1 962.2 EL2 249.2 ALF 17.65

LAUNCH DATE DEC 1 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 266.701

RL 147.50 LAL -.00 LOL 68.87 VL 25.484 GAL 11.49 AZL 86.51 HCA 106.05 SMA 115.39 ECC .33767 INC 3.4928 V1 30.207
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.262 GAP -19.37 AZP 90.97 TAL 155.34 TAP 261.39 RCA 76.43 APO 154.36 V2 35.194
 RC 48.839 GL 11.44 GP -1.29 ZAL 45.75 ZAP 4.80 ETS 165.16 ZAE 150.96 ETE 205.03 ZAC 94.35 ETC 166.61 CLP 4.62

PLANETOCENTRIC CONIC

C3 58.815 VHL 7.669 DLA 20.02 RAL 18.02 RAD 6569.1 VEL 13.423 PTH 2.45 VHP 12.236 DPA -4.38 RAP 1.47 ECC 1.9679
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 3 37 3160.92 -26.59 107.99 267.22 79.88 5 56 18 2560.9 -27.72 99.50
 90.00 22 41 0 4448.17 7.96 185.92 255.60 62.74 23 55 8 3848.2 4.24 179.21
 100.00 6 37 46 2857.29 -28.54 86.03 267.60 80.71 7 25 24 2257.3 -29.53 77.37
 100.00 23 49 31 4227.03 9.71 168.73 254.66 61.59 24 59 59 3627.0 5.84 162.08
 110.00 8 13 29 2557.83 -33.51 64.13 268.44 82.82 8 56 7 1957.8 -34.14 54.94
 110.00 0 34 14 4099.26 14.06 156.48 252.10 58.52 1 42 33 3499.3 9.80 149.98

DIFFERENTIAL CORRECTIONS

TDE-1.0411 TRA-2.3623 TC3 -.2313 BAU .1915
 RDE -.4859 RRA .2027 RC3 -.0763 FAU .01758
 FDE .9491 FRA 1.5710 FC3 -.2588 BSP 6645
 BDE 1.1489 BRA 2.3710 BC3 .2435 FSP -352

MID-COURSE EXECUTION ACCURACY

SGT 2063.7 SGR 414.0 SG3 128.8
 RRT .0247 RRF -.0156 RTF -.8965
 SGB 2104.8 R23 .0075 R13 -.8965
 SG1 2063.7 SG2 413.9 THA .30

ORBIT DETERMINATION ACCURACY

ST 960.5 SR 366.2 SS 848.0
 CRT .7253 CRS .8144 CST .9898
 LSA 1309.5 MSA 246.4 SSA 16.6
 EL1 999.0 EL2 242.4 ALF 16.45

LAUNCH DATE DEC 1 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 273.495

RL 147.50 LAL -.00 LOL 68.87 VL 25.683 GAL 11.00 AZL 86.48 HCA 109.29 SMA 116.42 ECC .32415 INC 3.5204 V1 30.207
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.393 GAP -18.44 AZP 91.16 TAL 154.93 TAP 264.22 RCA 78.68 APO 154.16 V2 35.184
 RC 45.742 GL 12.09 GP -1.39 ZAL 45.53 ZAP 3.52 ETS 157.64 ZAE 153.09 ETE 207.61 ZAC 96.17 ETC 166.72 CLP 3.23

PLANETOCENTRIC CONIC

C3 54.619 VHL 7.590 DLA 20.75 RAL 18.10 RAD 6569.0 VEL 13.266 PTH 2.42 VHP 11.706 DPA -3.71 RAP 3.19 ECC 1.8989
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 23 3174.21 -26.43 108.93 266.15 79.44 5 48 17 2574.2 -27.62 100.46
 90.00 22 49 53 4398.54 6.40 183.10 254.80 62.36 24 3 12 3798.5 2.65 176.43
 100.00 6 30 29 2887.54 -28.42 86.77 266.56 80.34 7 18 17 2267.5 -29.47 78.12
 100.00 0 1 24 4180.44 8.19 166.10 253.83 61.15 1 11 4 3580.4 4.28 159.50
 110.00 8 7 57 2562.64 -33.47 64.50 267.44 82.60 8 50 39 1962.6 -34.13 55.32
 110.00 0 40 28 4058.11 12.59 154.20 251.21 57.95 1 48 4 3458.1 8.27 147.77

DIFFERENTIAL CORRECTIONS

TDE-1.0507 TRA-2.3480 TC3 -.2255 BAU .1750
 RDE -.4544 RRA .1882 RC3 -.0812 FAU .01842
 FDE 1.0023 FRA 1.6327 FC3 -.2920 BSP 6889
 BDE 1.1448 BRA 2.3553 BC3 .2397 FSP -385

MID-COURSE EXECUTION ACCURACY

SGT 2136.3 SGR 402.9 SG3 139.9
 RRT .0309 RRF -.0200 RTF -.9030
 SGB 2174.0 R23 .0089 R13 -.9030
 SG1 2136.4 SG2 402.7 THA .35

ORBIT DETERMINATION ACCURACY

ST 1002.4 SR 355.3 SS 886.9
 CRT .7299 CRS .8181 CST .9899
 LSA 1363.6 MSA 240.5 SSA 16.6
 EL1 1037.2 EL2 234.7 ALF 15.31

LAUNCH DATE DEC 1 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 280.298

RL 147.50 LAL -.00 LOL 68.87 VL 25.869 GAL 10.54 AZL 86.45 MCA 112.52 SMA 117.41 ECC .31133 INC 3.5492 V1 30.207
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.514 GAP -17.53 AZP 91.36 TAL 154.56 TAP 267.08 RCA 80.86 APO 153.96 V2 35.174
 RC 44.782 GL 12.76 GP -1.50 ZAL 45.37 ZAP 2.36 ETS 141.63 ZAE 155.29 ETE 210.71 ZAC 97.96 ETC 166.83 CLP 1.83

PLANETOCENTRIC CONIC

C3 50.789 VHL 7.127 CLA 21.49 RAL 18.13 RAD 6568.9 VEL 13.121 PTH 2.40 VHP 11.192 DPA -3.05 RAP 4.90 ECC 1.8359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 28 3189.09 -26.24 109.98 265.03 78.94 5 39 37 2589.1 -27.50 101.54
 90.00 22 59 3 4347.61 4.79 180.23 254.02 62.06 24 11 31 3747.6 1.01 173.59
 100.00 6 22 38 2878.99 -28.29 87.60 265.46 79.92 7 10 37 2279.0 -29.39 78.97
 100.00 0 9 30 4132.94 6.62 163.45 253.01 60.78 1 18 23 3532.9 2.68 156.88
 110.00 8 1 59 2568.15 -33.42 64.92 266.39 82.36 8 44 47 1968.2 -34.11 55.75
 110.00 0 46 38 4016.54 11.08 151.93 250.32 57.45 1 53 34 3416.5 6.71 145.56

DIFFERENTIAL CORRECTIONS

TDE -1.0607 TRA -2.3312 TC3 -.2172 BAU .1587
 RDE -.4237 RRA .1706 RC3 -.0862 FAU .01935
 FDE 1.0610 FRA 1.6989 FC3 -.3299 BSP 7148
 BDE 1.1422 BRA 2.3374 BC3 .2337 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 2209.1 SGR 391.0 SG3 152.2
 RRT .0366 RRF -.0238 RTF -.9092
 SGB 2243.4 R23 .0105 R13 -.9092
 SGI 2209.2 SG2 390.7 THA .38

ORBIT DETERMINATION ACCURACY

ST 1045.2 SR 343.6 SS 928.4
 CRT .7347 CRS .8218 CST .9900
 LSA 1420.3 MSA 234.2 SSA 16.6
 EL1 1076.7 EL2 226.2 ALF 14.22

LAUNCH DATE DEC 1 1968

FLIGHT TIME 120.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 287.106

RL 147.50 LAL -.00 LOL 68.87 VL 26.042 GAL 10.10 AZL 86.42 MCA 115.75 SMA 118.35 ECC .29917 INC 3.5793 V1 30.207
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.627 GAP -16.66 AZP 91.56 TAL 154.23 TAP 269.98 RCA 82.94 APO 153.76 V2 35.164
 RC 43.971 GL 13.46 GP -1.62 ZAL 45.27 ZAP 1.67 ETS 104.82 ZAE 157.52 ETE 214.49 ZAC 99.74 ETC 166.93 CLP .40

PLANETOCENTRIC CONIC

C3 47.296 VHL 6.877 CLA 22.24 RAL 18.11 RAD 6568.8 VEL 12.987 PTH 2.37 VHP 10.695 DPA -2.42 RAP 6.59 ECC 1.7784
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 45 3205.93 -26.01 111.16 263.85 78.39 5 30 11 2605.9 -27.35 102.75
 90.00 23 8 35 4295.18 3.11 177.29 253.25 61.84 24 20 10 3695.2 -.68 170.66
 100.00 6 14 9 2891.92 -28.13 88.52 264.31 79.46 7 2 20 2291.9 -29.30 79.92
 100.00 0 17 48 4084.42 5.00 160.76 252.20 60.49 1 25 53 3484.4 1.03 154.22
 110.00 7 55 35 2574.55 -33.36 65.41 265.30 82.07 8 38 30 1974.5 -34.10 56.24
 110.00 0 52 51 3974.57 9.53 149.66 249.43 57.02 1 59 6 3374.6 5.12 143.35

DIFFERENTIAL CORRECTIONS

TDE -1.0756 TRA -2.3122 TC3 -.2273 BAU .1550
 RDE -.3939 RRA .1562 RC3 -.0917 FAU .02040
 FDE 1.1260 FRA 1.7699 FC3 -.3734 BSP 8356
 BDE 1.1455 BRA 2.3175 BC3 .2451 FSP -462

MID-COURSE EXECUTION ACCURACY

SGT 2287.4 SGR 378.6 SG3 165.8
 RRT .0473 RRF -.0263 RTF -.9103
 SGB 2318.5 R23 .0180 R13 -.9103
 SGI 2287.4 SG2 378.2 THA .46

ORBIT DETERMINATION ACCURACY

ST 1092.2 SR 330.9 SS 972.9
 CRT .7410 CRS .8256 CST .9903
 LSA 1482.3 MSA 226.8 SSA 17.0
 EL1 1120.5 EL2 216.6 ALF 13.15

LAUNCH DATE DEC 1 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 293.915

RL 147.50 LAL -.00 LOL 68.87 VL 26.204 GAL 9.67 AZL 86.39 MCA 118.98 SMA 119.25 ECC .28768 INC 3.6111 V1 30.207
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.732 GAP -15.81 AZP 91.75 TAL 153.93 TAP 272.91 RCA 84.94 APO 153.55 V2 35.153
 RC 43.319 GL 14.18 GP -1.76 ZAL 45.22 ZAP 2.05 ETS 60.09 ZAE 159.74 ETE 219.16 ZAC 101.49 ETC 167.03 CLP -1.06

PLANETOCENTRIC CONIC

C3 44.114 VHL 6.642 CLA 22.99 RAL 18.03 RAD 6568.7 VEL 12.864 PTH 2.34 VHP 10.213 DPA -1.81 RAP 8.26 ECC 1.7260
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 26 9 3225.21 -25.74 112.51 262.61 77.77 5 19 54 2625.2 -27.17 104.13
 90.00 23 18 36 4240.93 1.36 174.26 252.50 61.71 24 29 16 3640.9 -2.43 167.64
 100.00 6 4 57 2906.64 -27.95 89.58 263.12 78.93 6 53 23 2306.6 -29.19 80.99
 100.00 0 26 24 4034.74 3.33 158.02 251.41 60.28 1 33 39 3434.7 -.65 151.49
 110.00 7 48 43 2581.98 -33.29 65.98 264.18 81.74 8 31 45 1982.0 -34.07 56.82
 110.00 0 59 7 3932.16 7.95 147.40 248.56 56.64 2 4 39 3332.2 3.51 141.13

DIFFERENTIAL CORRECTIONS

TDE -1.0829 TRA -2.2895 TC3 -.1932 BAU .1273
 RDE -.3645 RRA .1429 RC3 -.0961 FAU .02153
 FDE 1.1984 FRA 1.8467 FC3 -.4226 BSP 7658
 BDE 1.1426 BRA 2.2940 BC3 .2158 FSP -508

MID-COURSE EXECUTION ACCURACY

SGT 2354.1 SGR 364.8 SG3 180.8
 RRT .0455 RRF -.0283 RTF -.9205
 SGB 2382.2 R23 .0146 R13 -.9205
 SGI 2354.1 SG2 364.4 THA .41

ORBIT DETERMINATION ACCURACY

ST 1134.5 SR 317.0 SS 1020.9
 CRT .7449 CRS .8292 CST .9903
 LSA 1543.0 MSA 220.3 SSA 16.4
 EL1 1159.6 EL2 206.9 ALF 12.15

LAUNCH DATE DEC 1 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 300.724

RL 147.50 LAL -.00 LOL 68.87 VL 26.355 GAL 9.27 AZL 86.36 MCA 122.21 SMA 120.10 ECC .27682 INC 3.6448 V1 30.207
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.829 GAP -14.99 AZP 91.94 TAL 153.68 TAP 275.88 RCA 86.86 APO 153.35 V2 35.141
 RC 42.834 GL 14.92 GP -1.92 ZAL 45.23 ZAP 3.19 ETS 38.22 ZAE 161.86 ETE 224.99 ZAC 103.21 ETC 167.12 CLP -2.55

PLANETOCENTRIC CONIC

C3 41.221 VHL 6.420 CLA 23.75 RAL 17.91 RAD 6568.6 VEL 12.751 PTH 2.32 VHP 9.747 DPA -1.23 RAP 9.91 ECC 1.6784
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 27 3247.53 -25.41 114.06 261.33 77.06 5 8 35 2647.5 -26.94 105.72
 90.00 23 29 16 4184.41 -4.46 171.11 251.79 61.69 24 39 0 3584.4 -4.25 164.47
 100.00 5 54 57 2923.51 -27.72 90.78 261.89 78.34 6 43 40 2323.5 -29.05 82.23
 100.00 0 35 23 3983.66 1.60 155.21 250.64 60.15 1 41 47 3383.7 -2.38 148.69
 110.00 7 41 21 2590.63 -33.20 66.64 263.03 81.36 8 24 31 1990.6 -34.04 57.50
 110.00 1 5 29 3889.31 6.34 145.12 247.70 56.34 2 10 18 3289.3 1.87 138.89

DIFFERENTIAL CORRECTIONS

TDE -1.0957 TRA -2.2650 TC3 -.1770 BAU .1123
 RDE -.3358 RRA .1310 RC3 -.1009 FAU .02280
 FDE 1.2792 FRA 1.9295 FC3 -.4789 BSP 7895
 BDE 1.1460 BRA 2.2687 BC3 .2038 FSP -558

MID-COURSE EXECUTION ACCURACY

SGT 2425.8 SGR 350.6 SG3 197.4
 RRT .0477 RRF -.0277 RTF -.9257
 SGB 2451.0 R23 .0174 R13 -.9257
 SGI 2425.8 SG2 350.2 THA .40

ORBIT DETERMINATION ACCURACY

ST 1181.2 SR 302.1 SS 1072.5
 CRT .7501 CRS .8327 CST .9905
 LSA 1609.7 MSA 212.9 SSA 16.2
 EL1 1203.3 EL2 196.1 ALF 11.16

LAUNCH DATE DEC 1 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL -.00 LOL 68.87 VL 26.495 GAL 8.89 AZL 86.32 MCA 125.43 SMA 120.91 ECC .26659 INC 3.6811 V1 30.207
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.918 GAP -14.20 AZP 92.14 TAL 153.46 TAP 278.89 RCA 88.68 APO 153.15 V2 35.129
 RC 42.524 GL 15.70 GP -2.10 ZAL 45.30 ZAP 4.58 ETS 28.62 ZAE 163.80 ETE 232.28 ZAC 104.91 ETC 167.21 CLP -4.07

DISTANCE 307.529

PLANETOCENTRIC CONIC
 C3 38.593 VHL 6.212 DLA 24.52 RAL 17.73 RAD 6568.5 VEL 12.648 PTH 2.30 VHP 9.296 DPA -.70 RAP 11.53 ECC 1.6351
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 1 25 3273.76 -25.00 115.87 259.98 76.24 4 55 59 2673.8 -26.64 107.59
 90.00 23 40 51 4124.91 -2.38 167.79 251.13 61.78 24 49 36 3524.9 -6.14 161.13
 100.00 5 44 0 2943.04 -27.44 92.17 260.61 77.66 6 33 3 2343.0 -28.87 83.65
 100.00 0 44 54 3930.87 -.19 152.31 249.91 60.11 1 50 24 3330.9 -4.16 145.78
 110.00 7 33 25 2600.73 -33.10 67.41 261.85 80.92 8 16 46 2000.7 -34.00 58.28
 110.00 1 11 58 3845.94 4.70 142.84 246.87 56.10 2 16 4 3245.9 .22 136.62

MID-COURSE EXECUTION ACCURACY
 SGT 2496.2 SGR 335.6 SG3 215.9
 RRT .0467 RRF -.0237 RTF -.9306
 SGB 2518.6 R23 .0205 R13 -.9306
 SG1 2496.2 SG2 335.2 THA .37

ORBIT DETERMINATION ACCURACY
 ST 1228.5 SR 286.0 SS 1128.1
 CRT .7548 CRS .8356 CST .9908
 LSA 1679.6 MSA 205.5 SSA 16.0
 EL1 1247.7 EL2 184.7 ALF 10.19

DIFFERENTIAL CORRECTIONS
 TDE -1.1089 TRA -2.2379 TC3 -.1578 BAU .0980
 RDE -.3076 RRA .1204 RC3 -.1057 FAU .02422
 FDE 1.3696 FRA 2.0195 FC3 -.5433 BSP 8137
 BDE 1.1507 BRA 2.2412 BC3 .1900 FSP -613

LAUNCH DATE DEC 1 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL -.00 LOL 68.87 VL 26.625 GAL 8.53 AZL 86.28 MCA 128.66 SMA 121.68 ECC .25696 INC 3.7203 V1 30.207
 RP 107.91 LAP 2.90 LOP 197.59 VP 37.000 GAP -13.43 AZP 92.33 TAL 153.28 TAP 281.93 RCA 90.41 APO 152.94 V2 35.117
 RC 42.392 GL 16.49 GP -2.31 ZAL 45.42 ZAP 6.10 ETS 23.70 ZAE 165.43 ETE 241.29 ZAC 106.56 ETC 167.31 CLP -5.64

DISTANCE 314.329

PLANETOCENTRIC CONIC
 C3 36.212 VHL 6.018 DLA 25.30 RAL 17.49 RAD 6568.4 VEL 12.553 PTH 2.27 VHP 8.859 DPA -.21 RAP 13.13 ECC 1.5960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 46 40 3305.22 -24.47 118.02 258.57 75.29 4 41 45 2705.2 -26.25 109.81
 90.00 23 53 45 4061.26 -4.43 164.23 250.53 62.00 25 1 26 3461.3 -8.14 157.52
 100.00 5 31 56 2965.86 -27.10 93.78 259.29 76.88 6 21 22 2365.9 -28.64 85.31
 100.00 0 55 6 3875.86 -2.05 149.30 249.22 60.17 1 59 42 3275.9 -6.01 142.74
 110.00 7 24 52 2612.50 -32.97 68.30 260.65 80.40 8 8 25 2012.5 -33.94 59.20
 110.00 1 18 39 3801.98 3.03 140.54 246.05 55.93 2 22 1 3202.0 -1.47 134.33

MID-COURSE EXECUTION ACCURACY
 SGT 2561.7 SGR 319.8 SG3 236.3
 RRT .0403 RRF -.0144 RTF -.9353
 SGB 2581.5 R23 .0239 R13 -.9353
 SG1 2561.7 SG2 319.5 THA .29

ORBIT DETERMINATION ACCURACY
 ST 1274.6 SR 268.6 SS 1187.7
 CRT .7584 CRS .8378 CST .9910
 LSA 1751.5 MSA 198.1 SSA 15.7
 EL1 1291.1 EL2 172.8 ALF 9.25

DIFFERENTIAL CORRECTIONS
 TDE -1.1208 TRA -2.2061 TC3 -.1332 BAU .0838
 RDE -.2796 RRA .1113 RC3 -.1104 FAU .02584
 FDE 1.4704 FRA 2.1163 FC3 -.6179 BSP 8416
 BDE 1.1551 BRA 2.2089 BC3 .1730 FSP -677

LAUNCH DATE DEC 1 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL -.00 LOL 68.87 VL 26.745 GAL 8.19 AZL 86.24 MCA 131.88 SMA 122.40 ECC .24791 INC 3.7633 V1 30.207
 RP 107.95 LAP 2.80 LOP 200.81 VP 37.075 GAP -12.68 AZP 92.51 TAL 153.13 TAP 285.00 RCA 92.06 APO 152.75 V2 35.105
 RC 42.442 GL 17.32 GP -2.56 ZAL 45.59 ZAP 7.69 ETS 20.89 ZAE 166.63 ETE 252.05 ZAC 108.18 ETC 167.42 CLP -7.25

DISTANCE 321.120

PLANETOCENTRIC CONIC
 C3 34.059 VHL 5.836 DLA 26.09 RAL 17.21 RAD 6568.3 VEL 12.467 PTH 2.26 VHP 8.438 DPA .23 RAP 14.70 ECC 1.5605
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 29 30 3344.16 -23.77 120.66 257.07 74.14 4 25 14 2744.2 -25.72 112.53
 90.00 0 12 33 3991.37 -6.65 160.29 250.03 62.41 1 19 5 3391.4 -10.29 153.51
 100.00 5 18 27 2992.93 -26.67 95.67 257.92 75.97 6 8 20 2392.9 -28.33 87.26
 100.00 1 6 17 3817.84 -4.01 146.10 248.59 60.35 2 9 55 3217.8 -7.93 139.51
 110.00 7 15 38 2626.27 -32.81 69.34 259.44 79.81 7 59 24 2026.3 -33.86 60.27
 110.00 1 25 36 3757.26 1.32 138.20 245.27 55.84 2 28 13 3157.3 -3.17 132.00

MID-COURSE EXECUTION ACCURACY
 SGT 2627.7 SGR 303.4 SG3 259.1
 RRT .0281 RRF .0017 RTF -.9395
 SGB 2645.2 R23 .0285 R13 -.9395
 SG1 2627.7 SG2 303.3 THA .19

ORBIT DETERMINATION ACCURACY
 ST 1323.2 SR 249.6 SS 1252.8
 CRT .7609 CRS .8387 CST .9913
 LSA 1829.2 MSA 190.7 SSA 15.3
 EL1 1337.0 EL2 160.3 ALF 8.29

DIFFERENTIAL CORRECTIONS
 TDE -1.1355 TRA -2.1738 TC3 -.1082 BAU .0719
 RDE -.2518 RRA .1040 RC3 -.1151 FAU .02760
 FDE 1.5849 FRA 2.2227 FC3 -.7017 BSP 8644
 BDE 1.1631 BRA 2.1763 BC3 .1580 FSP -746

LAUNCH DATE DEC 1 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL -.00 LOL 68.87 VL 26.857 GAL 7.86 AZL 86.19 MCA 135.09 SMA 123.08 ECC .23944 INC 3.8107 V1 30.207
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.144 GAP -11.96 AZP 92.70 TAL 153.01 TAP 288.11 RCA 93.61 APO 152.55 V2 35.092
 RC 42.671 GL 18.18 GP -2.85 ZAL 45.82 ZAP 9.36 ETS 19.21 ZAE 167.29 ETE 264.04 ZAC 109.75 ETC 167.54 CLP -8.92

DISTANCE 327.902

PLANETOCENTRIC CONIC
 C3 32.119 VHL 5.667 DLA 26.89 RAL 16.86 RAD 6568.3 VEL 12.389 PTH 2.24 VHP 8.031 DPA .60 RAP 16.23 ECC 1.5286
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 8 30 3395.15 -22.78 124.07 255.43 72.71 4 5 6 2795.1 -24.93 116.06
 90.00 0 30 50 3910.81 -9.16 155.71 249.69 63.09 1 36 1 3310.8 -12.70 148.82
 100.00 5 3 6 3025.71 -26.11 97.95 256.49 74.90 5 53 32 2425.7 -27.93 89.62
 100.00 1 18 55 3755.48 -6.10 142.65 248.04 60.68 2 21 30 3155.5 -9.97 136.00
 110.00 7 5 36 2642.41 -32.61 70.56 258.21 79.11 7 49 39 2042.4 -33.76 61.51
 110.00 1 32 55 3711.55 -.43 135.82 244.53 55.82 2 34 46 3111.6 -4.91 129.60

MID-COURSE EXECUTION ACCURACY
 SGT 2687.0 SGR 286.5 SG3 284.5
 RRT .0049 RRF .0290 RTF -.9436
 SGB 2702.2 R23 .0336 R13 -.9436
 SG1 2687.0 SG2 286.5 THA .03

ORBIT DETERMINATION ACCURACY
 ST 1369.6 SR 228.7 SS 1322.6
 CRT .7606 CRS .8374 CST .9916
 LSA 1908.7 MSA 183.7 SSA 14.9
 EL1 1380.7 EL2 147.3 ALF 7.32

DIFFERENTIAL CORRECTIONS
 TDE -1.1484 TRA -2.1364 TC3 -.0776 BAU .0613
 RDE -.2237 RRA .0986 RC3 -.1198 FAU .02962
 FDE 1.7134 FRA 2.3378 FC3 -.7983 BSP 8915
 BDE 1.1700 BRA 2.1386 BC3 .1427 FSP -826

LAUNCH DATE DEC 1 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -0.00 LOL 68.87 VL 26.961 GAL 7.56 AZL 86.14 MCA 138.31 SMA 123.72 ECC .23150 INC 3.8638 V1 30.207
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.207 GAP -11.26 AZP 92.89 TAL 152.93 TAP 291.24 RCA 95.08 APO 152.36 V2 35.080
 RC 43.078 GL 19.07 GP -3.19 ZAL 46.10 ZAP 11.11 ETS 18.22 ZAE 167.35 ETE 276.18 ZAC 111.28 ETC 167.69 CLP -10.65

PLANETOCENTRIC CONIC

C3 30.377 VHL 5.512 DLA 27.71 RAL 16.47 RAD 6568.2 VEL 12.319 PTH 2.22 VHP 7.638 DPA .90 RAP 17.72 ECC 1.4999
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 39 32 3471.57 -21.15 129.08 253.49 70.72 3 37 24 2871.6 -23.58 121.25
 90.00 0 56 39 3806.36 -12.31 149.66 249.68 64.30 2 0 5 3206.4 -15.67 142.59
 100.00 4 45 5 3066.83 -25.35 100.76 254.96 73.60 5 36 12 2466.8 -27.35 92.54
 100.00 1 33 47 3686.34 -8.39 138.80 247.62 61.20 2 35 13 3086.3 -12.17 132.05
 110.00 6 54 38 2661.43 -32.35 71.98 256.96 78.31 7 38 59 2061.4 -33.62 62.98
 110.00 1 40 44 3664.50 -2.23 133.36 243.84 55.88 2 41 48 3064.5 -6.69 127.12

DIFFERENTIAL CORRECTIONS

TOE-1.1615 TRA-2.0955 TC3 -.0433 BAU .0536
 RDE -.1951 RRA .0956 RC3 -.1247 FAU .03188
 FDE 1.8594 FRA 2.4630 FC3 -.9087 BSP 9192
 BOE 1.1777 BRA 2.0977 BC3 .1320 FSP -917

MID-COURSE EXECUTION ACCURACY

SGT 2741.3 SGR 269.5 SG3 312.8
 RRT -.0334 RRF .0719 RTF -.9475
 SGB 2754.5 R23 -.0400 R13 .9475
 SG1 2741.3 SG2 269.3 THA 179.81

ORBIT DETERMINATION ACCURACY

ST 1415.2 SR 205.6 SS 1398.4
 CRT .7561 CRS .8324 CST .9919
 LSA 1992.2 MSA 177.0 SSA 14.3
 EL1 1423.8 EL2 133.8 ALF 6.33

LAUNCH DATE DEC 1 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -0.00 LOL 68.87 VL 27.056 GAL 7.27 AZL 86.08 MCA 141.52 SMA 124.32 ECC .22410 INC 3.9240 V1 30.207
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.264 GAP -10.58 AZP 93.07 TAL 152.88 TAP 294.41 RCA 96.46 APO 152.18 V2 35.067
 RC 43.658 GL 20.01 GP -3.61 ZAL 46.44 ZAP 12.95 ETS 17.69 ZAE 166.87 ETE 287.24 ZAC 112.75 ETC 167.87 CLP -12.45

PLANETOCENTRIC CONIC

C3 28.823 VHL 5.369 DLA 28.55 RAL 16.02 RAD 6568.2 VEL 12.255 PTH 2.20 VHP 7.260 DPA 1.10 RAP 19.18 ECC 1.4743
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.17 1 14 18 3729.42 -17.52 146.46 250.59 67.08 2 16 28 3129.4 -20.47 139.02
 93.83 2 18 16 3522.21 -17.50 131.29 250.58 67.07 3 16 59 2922.2 -20.46 123.84
 100.00 4 22 38 3121.86 -24.24 104.48 253.27 71.95 5 14 40 2521.9 -26.48 96.39
 100.00 1 52 38 3605.00 -11.02 134.19 247.41 62.04 2 52 43 3005.0 -14.68 127.31
 110.00 6 42 29 2684.07 -32.03 73.67 255.70 77.36 7 27 13 2084.1 -33.43 64.72
 110.00 1 49 16 3615.55 -4.09 130.80 243.22 56.03 2 49 32 3015.6 -8.53 124.52

DIFFERENTIAL CORRECTIONS

TDE-1.1749 TRA-2.0513 TC3 -.0060 BAU .0502
 RDE -.1654 RRA .0951 RC3 -.1300 FAU .03444
 FDE 2.0259 FRA 2.5997 FC3 -1.0343 BSP 9456
 BOE 1.1865 BRA 2.0535 BC3 .1302 FSP -1018

MID-COURSE EXECUTION ACCURACY

SGT 2790.0 SGR 253.0 SG3 344.4
 RRT -.0933 RRF .1374 RTF -.9511
 SGB 2801.4 R23 -.0482 R13 .9512
 SG1 2790.1 SG2 251.9 THA 179.51

ORBIT DETERMINATION ACCURACY

ST 1459.9 SR 179.9 SS 1480.8
 CRT .7438 CRS .8207 CST .9921
 LSA 2080.2 MSA 170.9 SSA 13.6
 EL1 1466.1 EL2 119.7 ALF 5.27

LAUNCH DATE DEC 1 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -0.00 LOL 68.87 VL 27.144 GAL 7.00 AZL 86.01 MCA 144.73 SMA 124.88 ECC .21720 INC 3.9932 V1 30.207
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.316 GAP -9.92 AZP 93.26 TAL 152.86 TAP 297.60 RCA 97.75 APO 152.00 V2 35.053
 RC 44.405 GL 20.99 GP -4.11 ZAL 46.83 ZAP 14.89 ETS 17.52 ZAE 165.98 ETE 296.41 ZAC 114.16 ETC 168.10 CLP -14.32

PLANETOCENTRIC CONIC

C3 27.445 VHL 5.239 DLA 29.43 RAL 15.51 RAD 6568.1 VEL 12.199 PTH 2.19 VHP 6.896 DPA 1.18 RAP 20.60 ECC 1.4517
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.64 0 35 39 3835.19 -18.35 154.63 249.50 66.59 1 39 34 3235.2 -21.37 147.16
 98.36 2 52 50 3392.01 -18.34 122.08 249.50 66.57 3 49 23 2792.0 -21.35 114.62
 100.00 3 49 50 3209.51 -22.27 110.24 251.18 69.52 4 43 20 2609.5 -24.85 102.40
 100.00 2 21 20 3492.92 -14.52 127.70 247.64 63.58 3 19 33 2892.9 -17.95 120.59
 110.00 6 28 50 2711.40 -31.60 75.69 254.40 76.23 7 14 1 2111.4 -33.17 66.81
 110.00 1 58 50 3563.80 -6.06 128.08 242.68 56.29 2 58 14 2963.8 -10.45 121.74

DIFFERENTIAL CORRECTIONS

TDE-1.1789 TRA-1.9941 TC3 .0475 BAU .0529
 RDE -.1337 RRA .0980 RC3 -.1360 FAU .03763
 FDE 2.2090 FRA 2.7411 FC3 -1.1870 BSP 9942
 BOE 1.1865 BRA 1.9965 BC3 .1440 FSP -1148

MID-COURSE EXECUTION ACCURACY

SGT 2816.9 SGR 238.4 SG3 378.9
 RRT -.1888 RRF .2369 RTF -.9549
 SGB 2826.9 R23 -.0564 R13 .9550
 SG1 2817.2 SG2 234.0 THA 179.08

ORBIT DETERMINATION ACCURACY

ST 1492.2 SR 150.8 SS 1565.5
 CRT .7141 CRS .7945 CST .9923
 LSA 2161.6 MSA 165.9 SSA 12.6
 EL1 1496.1 EL2 105.3 ALF 4.15

LAUNCH DATE DEC 1 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -0.00 LOL 68.87 VL 27.226 GAL 6.76 AZL 85.93 MCA 147.94 SMA 125.40 ECC .21094 INC 4.0743 V1 30.207
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.362 GAP -9.29 AZP 93.45 TAL 152.82 TAP 300.76 RCA 98.95 APO 151.85 V2 35.040
 RC 45.309 GL 22.00 GP -4.72 ZAL 47.24 ZAP 16.91 ETS 17.66 ZAE 164.82 ETE 303.57 ZAC 115.54 ETC 168.40 CLP -16.26

PLANETOCENTRIC CONIC

C3 26.295 VHL 5.128 DLA 30.34 RAL 14.99 RAD 6568.1 VEL 12.152 PTH 2.18 VHP 6.553 DPA 1.13 RAP 22.01 ECC 1.4327
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.63 0 10 37 3897.95 -19.18 159.68 248.54 66.04 1 15 35 3298.0 -22.26 152.20
 101.37 3 13 46 3307.98 -19.17 116.22 248.53 66.02 4 8 54 2708.0 -22.25 108.74
 78.63 0 10 37 3897.95 -19.18 159.68 248.54 66.04 1 15 35 3298.0 -22.26 152.20
 101.37 3 13 46 3307.98 -19.17 116.22 248.53 66.02 4 8 54 2708.0 -22.25 108.74
 110.00 6 13 24 2745.53 -31.02 78.18 253.17 74.86 6 59 9 2145.5 -32.78 69.40
 110.00 2 10 10 3508.39 -8.14 125.14 242.35 56.69 3 8 38 2908.4 -12.47 118.72

DIFFERENTIAL CORRECTIONS

TDE-1.7597 TRA-2.5117 TC3 -.7777 BAU .2785
 RDE -.1035 RRA .1005 RC3 -.1517 FAU .01867
 FDE 2.9312 FRA 3.4181 FC3 -.6148 BSP 3466
 BOE 1.7627 BRA 2.5137 BC3 .7923 FSP -290

MID-COURSE EXECUTION ACCURACY

SGT 3882.8 SGR 235.5 SG3 478.8
 RRT -.0793 RRF .2283 RTF -.9447
 SGB 3889.8 R23 -.1537 R13 .9448
 SG1 3882.8 SG2 232.7 THA 179.73

ORBIT DETERMINATION ACCURACY

ST 2195.0 SR 122.1 SS 2000.8
 CRT .7063 CRS .7571 CST .9970
 LSA 2969.2 MSA 140.2 SSA 17.7
 EL1 2196.7 EL2 86.4 ALF 2.25

LAUNCH DATE DEC 1 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -0.00 LOL 68.87 VL 27.300 GAL 6.51 AZL 85.83 MCA 151.15 SMA 125.88 ECC .20488 INC 4.1714 V1 30.207
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.404 GAP -8.66 AZP 93.66 TAL 152.89 TAP 304.04 RCA 100.09 APO 151.67 V2 35.027
 RC 46.364 GL 25.14 GP -5.49 ZAL 47.80 ZAP 19.13 ETS 18.07 ZAE 163.52 ETE 308.53 ZAC 116.80 ETC 168.80 CLP -18.35

PLANETOCENTRIC CONIC

C3 25.211 VHL 5.021 DLA 31.31 RAL 14.28 RAD 6568.0 VEL 12.107 PTH 2.17 VHP 6.212 DPA .87 RAP 23.34 ECC 1.4149
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.04 23 45 12 3946.56 -20.06 163.74 247.42 65.44 24 50 59 3346.6 -23.20 156.24
 103.96 3 29 37 3238.56 -20.04 111.42 247.42 65.42 4 23 35 2638.6 -23.19 103.93
 76.04 23 45 12 3946.56 -20.06 163.74 247.42 65.44 24 50 59 3346.6 -23.20 156.24
 103.96 3 29 37 3238.56 -20.04 111.42 247.42 65.42 4 23 35 2638.6 -23.19 103.93
 110.00 5 54 18 2788.56 -30.22 81.27 251.65 73.20 6 40 46 2188.6 -32.22 72.63
 110.00 2 23 38 3444.55 -10.51 121.72 242.03 57.28 3 21 2 2844.6 -14.75 115.18

DIFFERENTIAL CORRECTIONS

TDE-1.2503 TRA-1.9302 TC3 .0619 BAU .0558
 RDE -.0603 RRA .1163 RC3 -.1536 FAU .04260
 FDE 2.7241 FRA 3.1194 FC3-1.4629 BSP 9372
 BDE 1.2517 BRA 1.9337 BC3 .1656 FSP -1346

DISTANCE 361.608

SGT 2947.3 SGR 229.5 SG3 466.7
 RRT -.4612 RRF .5324 RTF -.9590
 SGB 2956.2 R23 -.0991 R13 .9593
 SG1 2949.2 SG2 203.5 THA 177.93

ORBIT DETERMINATION ACCURACY

ST 1622.9 SR 83.3 SS 1798.5
 CRT .4599 CRS .5574 CST .9934
 LSA 2418.9 MSA 155.5 SSA 11.0
 EL1 1623.3 EL2 73.9 ALF 1.35

LAUNCH DATE DEC 1 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -0.00 LOL 68.87 VL 27.368 GAL 6.30 AZL 85.71 MCA 154.35 SMA 126.33 ECC .19940 INC 4.2903 V1 30.207
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.441 GAP -8.06 AZP 93.87 TAL 152.93 TAP 307.29 RCA 101.14 APO 151.52 V2 35.013
 RC 47.558 GL 24.36 GP -6.47 ZAL 48.40 ZAP 21.48 ETS 18.79 ZAE 162.13 ETE 311.78 ZAC 118.02 ETC 169.34 CLP -20.52

PLANETOCENTRIC CONIC

C3 24.351 VHL 4.935 DLA 32.36 RAL 13.54 RAD 6568.0 VEL 12.072 PTH 2.16 VHP 5.894 DPA .39 RAP 24.67 ECC 1.4008
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.63 23 25 52 3989.30 -20.93 167.42 246.44 64.74 24 32 22 3389.3 -24.16 159.91
 106.37 3 43 3 3178.76 -20.92 107.32 246.43 64.73 4 36 2 2578.8 -24.15 99.81
 73.63 23 25 52 3989.30 -20.93 167.42 246.44 64.74 24 32 22 3389.3 -24.16 159.91
 106.37 3 43 3 3178.76 -20.92 107.32 246.43 64.73 4 36 2 2578.8 -24.15 99.81
 110.00 5 30 6 2848.26 -28.97 85.47 250.04 71.00 6 17 34 2248.3 -31.28 77.03
 110.00 2 41 56 3367.79 -13.30 117.52 242.10 58.22 3 38 4 2767.8 -17.41 110.82

DIFFERENTIAL CORRECTIONS

TDE-1.2670 TRA-1.8714 TC3 .0979 BAU .0628
 RDE -.0140 RRA .1350 RC3 -.1662 FAU .04631
 FDE 3.0275 FRA 3.3117 FC3-1.6466 BSP 9534
 BDE 1.2671 BRA 1.8763 BC3 .1928 FSP -1500

DISTANCE 368.299

SGT 2947.3 SGR 229.5 SG3 466.7
 RRT -.4612 RRF .5324 RTF -.9590
 SGB 2956.2 R23 -.0991 R13 .9593
 SG1 2949.2 SG2 203.5 THA 177.93

ORBIT DETERMINATION ACCURACY

ST 1661.3 SR 58.2 SS 1920.6
 CRT -.1974 CRS -.0874 CST .9936
 LSA 2535.5 MSA 153.0 SSA 9.7
 EL1 1661.3 EL2 57.0 ALF 179.60

LAUNCH DATE DEC 1 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -0.00 LOL 68.87 VL 27.431 GAL 6.09 AZL 85.56 MCA 157.55 SMA 126.74 ECC .19436 INC 4.4404 V1 30.207
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.475 GAP -7.47 AZP 94.11 TAL 152.99 TAP 310.55 RCA 102.11 APO 151.38 V2 35.000
 RC 48.883 GL 25.72 GP -7.75 ZAL 49.09 ZAP 24.03 ETS 19.86 ZAE 160.67 ETE 313.39 ZAC 119.17 ETC 170.08 CLP -22.82

PLANETOCENTRIC CONIC

C3 23.682 VHL 4.866 DLA 33.53 RAL 12.69 RAD 6568.0 VEL 12.044 PTH 2.15 VHP 5.594 DPA -.43 RAP 26.01 ECC 1.3897
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.24 23 7 9 4029.77 -21.84 171.00 245.49 63.90 24 14 19 3429.8 -25.16 163.49
 108.76 3 54 56 3124.63 -21.83 103.62 245.49 63.89 4 47 1 2524.6 -25.15 96.10
 71.24 23 7 9 4029.77 -21.84 171.00 245.49 63.90 24 14 19 3429.8 -25.16 163.49
 108.76 3 54 56 3124.63 -21.83 103.62 245.49 63.89 4 47 1 2524.6 -25.15 96.10
 110.00 4 53 6 2946.58 -26.60 92.14 247.84 67.70 5 42 12 2346.6 -29.38 84.06
 110.00 3 12 6 3255.81 -17.22 111.21 242.88 60.00 4 6 22 2655.8 -21.07 104.20

DIFFERENTIAL CORRECTIONS

TDE-1.2835 TRA-1.8055 TC3 .1339 BAU .0719
 RDE .0435 RRA .1627 RC3 -.1836 FAU .05044
 FDE 3.3817 FRA 3.5106 FC3-1.8441 BSP 9715
 BDE 1.2843 BRA 1.8128 BC3 .2272 FSP -1676

DISTANCE 374.970

SGT 2967.1 SGR 295.6 SG3 570.9
 RRT -.7829 RRF .8520 RTF -.9638
 SGB 2981.8 R23 -.1519 R13 .9645
 SG1 2976.1 SG2 183.3 THA 175.52

ORBIT DETERMINATION ACCURACY

ST 1693.8 SR 86.0 SS 2054.3
 CRT -.8928 CRS -.8384 CST .9938
 LSA 2659.6 MSA 151.9 SSA 8.4
 EL1 1695.6 EL2 38.7 ALF 177.40

LAUNCH DATE DEC 1 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -0.00 LOL 68.87 VL 27.488 GAL 5.91 AZL 85.36 MCA 160.75 SMA 127.12 ECC .18975 INC 4.6373 V1 30.207
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.504 GAP -6.90 AZP 94.38 TAL 153.07 TAP 313.82 RCA 103.00 APO 151.24 V2 34.987
 RC 50.327 GL 27.29 GP -9.48 ZAL 49.92 ZAP 26.87 ETS 21.40 ZAE 159.06 ETE 313.38 ZAC 120.26 ETC 171.13 CLP -25.25

PLANETOCENTRIC CONIC

C3 23.238 VHL 4.821 DLA 34.87 RAL 11.67 RAD 6567.9 VEL 12.028 PTH 2.15 VHP 5.314 DPA -1.72 RAP 27.39 ECC 1.3824
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.74 22 48 4 4070.92 -22.79 174.73 244.61 62.86 23 55 55 3470.9 -26.24 167.22
 111.26 4 5 54 3074.24 -22.78 100.20 244.60 62.85 4 57 8 2474.2 -26.23 92.68
 68.74 22 48 4 4070.92 -22.79 174.73 244.61 62.86 23 55 55 3470.9 -26.24 167.22
 111.26 4 5 54 3074.24 -22.78 100.20 244.60 62.85 4 57 8 2474.2 -26.23 92.68
 68.74 22 48 4 4070.92 -22.79 174.73 244.61 62.86 23 55 55 3470.9 -26.24 167.22
 111.26 4 5 54 3074.24 -22.78 100.20 244.60 62.85 4 57 8 2474.2 -26.23 92.68

DIFFERENTIAL CORRECTIONS

TDE-1.3066 TRA-1.7355 TC3 .1612 BAU .0818
 RDE .1193 RRA .2034 RC3 -.2082 FAU .05467
 FDE 3.8067 FRA 3.7123 FC3-2.0368 BSP 9824
 BDE 1.3120 BRA 1.7474 BC3 .2633 FSP -1863

DISTANCE 381.622

SGT 2959.3 SGR 383.7 SG3 630.5
 RRT -.8738 RRF .9358 RTF -.9657
 SGB 2984.1 R23 -.1824 R13 .9670
 SG1 2978.3 SG2 185.4 THA 173.51

ORBIT DETERMINATION ACCURACY

ST 1726.5 SR 167.2 SS 2205.6
 CRT -.9939 CRS -.9767 CST .9940
 LSA 2801.8 MSA 152.1 SSA 7.0
 EL1 1734.4 EL2 18.4 ALF 174.50

LAUNCH DATE DEC 1 1968

FLIGHT TIME 150.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 388.254

RL 147.50 LAL -0.00 LOL 68.87 VL 27.539 GAL 5.73 AZL 85.09 MCA 163.95 SMA 127.47 ECC .18553 INC 4.9090 V1 30.207
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.530 GAP -6.34 AZP 94.72 TAL 153.15 TAP 317.10 RCA 183.82 APO 151.12 V2 34.974
 RC 51.881 GL 29.20 GP -11.92 ZAL 50.96 ZAP 30.09 ETS 23.56 ZAE 157.10 ETE 311.71 ZAC 121.29 ETC 172.66 CLP -27.83

PLANETOCENTRIC CONIC

C3 23.096 VHL 4.806 DLA 36.49 RAL 10.39 RAD 6567.9 VEL 12.020 PTH 2.15 VHP 5.062 DPA -3.72 RAP 28.92 ECC 1.3801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.95 22 27 27 4115.86 -23.81 178.90 243.80 61.49 23 36 3 3515.9 -27.42 171.40
 114.05 4 16 20 3026.30 -23.80 96.97 243.79 61.48 5 6 46 2426.3 -27.41 89.47
 65.95 22 27 27 4115.86 -23.81 178.90 243.80 61.49 23 36 3 3515.9 -27.42 171.40
 114.05 4 16 20 3026.30 -23.80 96.97 243.79 61.48 5 6 46 2426.3 -27.41 89.47
 65.95 22 27 27 4115.86 -23.81 178.90 243.80 61.49 23 36 3 3515.9 -27.42 171.40
 114.05 4 16 20 3026.30 -23.80 96.97 243.79 61.48 5 6 46 2426.3 -27.41 89.47

DIFFERENTIAL CORRECTIONS

TDE-1.3598 TRA-1.6603 TC3 .1768 BAU .0929
 RDE .2268 RRA .2630 RC3 -.2433 FAU .05873
 FDE 4.3186 FRA 3.8961 FC3-2.2016 B9P .9862
 BOE 1.3589 BRA 1.6810 BC3 .3008 F8P -2055

MID-COURSE EXECUTION ACCURACY

SGT 2939.9 SGR 529.1 SG3 693.2
 RRT -.9206 RRF .9754 RTF -.9671
 SGB 2987.2 R23 -.2070 R13 .9695
 SG1 2980.2 SG2 203.8 THA 170.55

ORBIT DETERMINATION ACCURACY

ST 1759.9 SR 294.7 SS 2376.2
 CRT -.9995 CRS -.9964 CST .9941
 LSA 2967.6 MSA 154.3 SSA 5.5
 EL1 1784.4 EL2 9.4 ALF 170.50

LAUNCH DATE DEC 1 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 394.864

RL 147.50 LAL -0.00 LOL 68.87 VL 27.586 GAL 5.58 AZL 84.69 MCA 167.14 SMA 127.79 ECC .18171 INC 5.3113 V1 30.207
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.552 GAP -5.80 AZP 95.18 TAL 153.23 TAP 320.38 RCA 104.57 APO 151.01 V2 34.961
 RC 53.536 GL 31.67 GP -15.55 ZAL 52.34 ZAP 33.93 ETS 26.69 ZAE 154.35 ETE 308.26 ZAC 122.28 ETC 175.02 CLP -30.54

PLANETOCENTRIC CONIC

C3 23.427 VHL 4.840 DLA 38.57 RAL 8.68 RAD 6568.0 VEL 12.033 PTH 2.15 VHP 4.854 DPA -6.87 RAP 30.79 ECC 1.3855
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.64 22 3 41 4168.80 -24.92 183.91 243.07 59.55 23 13 10 3568.8 -28.76 176.46
 117.36 4 26 26 2980.30 -24.91 93.90 243.06 59.54 5 16 6 2380.3 -28.75 86.46
 62.64 22 3 41 4168.80 -24.92 183.91 243.07 59.55 23 13 10 3568.8 -28.76 176.46
 117.36 4 26 26 2980.30 -24.91 93.90 243.06 59.54 5 16 6 2380.3 -28.75 86.46
 62.64 22 3 41 4168.80 -24.92 183.91 243.07 59.55 23 13 10 3568.8 -28.76 176.46
 117.36 4 26 26 2980.30 -24.91 93.90 243.06 59.54 5 16 6 2380.3 -28.75 86.46

DIFFERENTIAL CORRECTIONS

TDE-1.3918 TRA-1.5784 TC3 .1794 BAU .1076
 RDE .3944 RRA .3514 RC3 -.2929 FAU .06197
 FDE 4.9347 FRA 4.0117 FC3-2.2899 B9P .9911
 BOE 1.4466 BRA 1.6151 BC3 .3435 F8P -2238

MID-COURSE EXECUTION ACCURACY

SGT 2905.5 SGR 768.5 SG3 752.9
 RRT -.9426 RRF .9914 RTF -.9680
 SGB 3003.9 R23 -.2166 R13 .9726
 SG1 2993.7 SG2 247.1 THA 166.01

ORBIT DETERMINATION ACCURACY

ST 1796.5 SR 493.4 SS 2566.5
 CRT -.9967 CRS -.9996 CST .9942
 LSA 3167.4 MSA 158.7 SSA 4.1
 EL1 1862.6 EL2 38.9 ALF 164.68

LAUNCH DATE DEC 1 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 401.452

RL 147.50 LAL -0.00 LOL 68.87 VL 27.628 GAL 5.44 AZL 84.03 MCA 170.33 SMA 128.07 ECC .17826 INC 5.9732 V1 30.207
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.571 GAP -5.28 AZP 95.89 TAL 153.32 TAP 323.65 RCA 105.24 APO 150.90 V2 34.948
 RC 55.282 GL 35.17 GP -21.39 ZAL 54.38 ZAP 38.95 ETS 31.34 ZAE 149.77 ETE 303.05 ZAC 123.18 ETC 178.97 CLP -33.36

PLANETOCENTRIC CONIC

C3 24.691 VHL 4.969 DLA 41.47 RAL 6.09 RAD 6568.0 VEL 12.086 PTH 2.16 VHP 4.735 DPA -12.08 RAP 33.48 ECC 1.4064
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.33 21 33 39 4237.30 -26.10 190.53 242.44 56.55 22 44 16 3637.3 -30.31 183.22
 121.67 4 35 49 2937.56 -26.09 91.10 242.43 56.54 5 24 46 2337.6 -30.29 83.79
 58.33 21 33 39 4237.30 -26.10 190.53 242.44 56.55 22 44 16 3637.3 -30.31 183.22
 121.67 4 35 49 2937.56 -26.09 91.10 242.43 56.54 5 24 46 2337.6 -30.29 83.79
 58.33 21 33 39 4237.30 -26.10 190.53 242.44 56.55 22 44 16 3637.3 -30.31 183.22
 121.67 4 35 49 2937.56 -26.09 91.10 242.43 56.54 5 24 46 2337.6 -30.29 83.79

DIFFERENTIAL CORRECTIONS

TDE-1.4890 TRA-1.4787 TC3 .1680 BAU .1313
 RDE .6897 RRA .4830 RC3 -.3606 FAU .06283
 FDE 5.6470 FRA 3.9305 FC3-2.2030 B9P .10168
 BOE 1.6409 BRA 1.5556 BC3 .3978 F8P -2375

MID-COURSE EXECUTION ACCURACY

SGT 2855.6 SGR 1146.0 SG3 790.8
 RRT -.9524 RRF .9971 RTF -.9683
 SGB 3077.0 R23 -.2053 R13 .9776
 SG1 3059.6 SG2 326.2 THA 158.83

ORBIT DETERMINATION ACCURACY

ST 1847.6 SR 826.0 SS 2765.5
 CRT -.9944 CRS -1.0000 CST .9943
 LSA 3422.9 MSA 166.1 SSA 2.7
 EL1 2022.3 EL2 79.6 ALF 155.99

LAUNCH DATE DEC 1 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 408.016

RL 147.50 LAL -0.00 LOL 68.87 VL 27.666 GAL 5.31 AZL 82.72 MCA 173.52 SMA 128.33 ECC .17517 INC 7.2760 V1 30.207
 RP 108.47 LAP .82 LOP 242.44 VP 37.587 GAP -4.77 AZP 97.23 TAL 153.40 TAP 326.91 RCA 105.85 APO 150.81 V2 34.936
 RC 57.109 GL 40.79 GP -31.86 ZAL 57.91 ZAP 48.63 ETS 38.60 ZAE 140.78 ETE 296.85 ZAC 123.60 ETC 186.41 CLP -36.04

PLANETOCENTRIC CONIC

C3 28.515 VHL 5.340 DLA 45.99 RAL 1.35 RAD 6568.1 VEL 12.243 PTH 2.20 VHP 4.871 DPA -21.45 RAP 38.40 ECC 1.4693
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.11 20 50 2 4338.87 -27.04 200.43 241.83 51.26 22 2 20 3738.9 -31.85 193.50
 127.89 4 41 38 2907.40 -27.03 89.16 241.82 51.25 5 30 5 2307.4 -31.84 82.23
 52.11 20 50 2 4338.87 -27.04 200.43 241.83 51.26 22 2 20 3738.9 -31.85 193.50
 127.89 4 41 38 2907.40 -27.03 89.16 241.82 51.25 5 30 5 2307.4 -31.84 82.23
 52.11 20 50 2 4338.87 -27.04 200.43 241.83 51.26 22 2 20 3738.9 -31.85 193.50
 127.89 4 41 38 2907.40 -27.03 89.16 241.82 51.25 5 30 5 2307.4 -31.84 82.23

DIFFERENTIAL CORRECTIONS

TDE-1.7357 TRA-1.3655 TC3 .1255 BAU .1685
 RDE 1.3194 RRA .8669 RC3 -.4238 FAU .05524
 FDE 6.3074 FRA 3.3415 FC3-1.6770 B9P .10884
 BOE 2.1803 BRA 1.5196 BC3 .4420 F8P -2273

MID-COURSE EXECUTION ACCURACY

SGT 2818.7 SGR 1808.3 SG3 751.4
 RRT -.9560 RRF .9987 RTF -.9686
 SGB 3347.2 R23 -.1846 R13 .9862
 SG1 3318.7 SG2 450.4 THA 147.79

ORBIT DETERMINATION ACCURACY

ST 1966.9 SR 1449.1 SS 2921.6
 CRT -.9936 CRS -.9999 CST .9947
 LSA 3804.4 MSA 176.7 SSA 1.4
 EL1 2439.5 EL2 131.5 ALF 143.67

LAUNCH DATE DEC 1 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 414.547

RL 147.50 LAL -.00 LOL 68.87 VL 27.700 GAL 5.21 AZL 78.94 MCA 176.69 SMA 128.56 ECC .17244 INC11.0649 V1 30.207
 RP 108.51 LAP .64 LOP 245.62 VP 37.601 GAP -4.27 AZP 101.05 TAL 153.46 TAP 330.15 RCA 106.39 APO 150.73 V2 34.923
 RC 59.010 GL 51.62 GP -53.28 ZAL 65.62 ZAP 61.29 ETS 51.33 ZAE 120.68 ETE 294.20 ZAC 121.22 ETC 203.47 CLP -36.54

PLANETOCENTRIC CONIC

C3 45.612 VHL 6.754 DLA 53.69 RAL 349.10 RAD 6568.7 VEL 12.922 PTH 2.36 VHP 6.277 DPA -39.64 RAP 51.85 ECC 1.7507
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.27 19 29 4 4533.66 -24.63 217.50 239.43 40.65 20 44 38 3933.7 -30.58 211.88
 137.73 4 24 51 2949.26 -24.62 90.78 239.41 40.64 5 14 0 2349.3 -30.57 85.16
 42.27 19 29 4 4533.66 -24.63 217.50 239.43 40.65 20 44 38 3933.7 -30.58 211.88
 137.73 4 24 51 2949.26 -24.62 90.78 239.41 40.64 5 14 0 2349.3 -30.57 85.16
 42.27 19 29 4 4533.66 -24.63 217.50 239.43 40.65 20 44 38 3933.7 -30.58 211.88
 137.73 4 24 51 2949.26 -24.62 90.78 239.41 40.64 5 14 0 2349.3 -30.57 85.16

DIFFERENTIAL CORRECTIONS

TDE-2.0028 TRA-1.2114 TC3 .0343 BAU .1946
 RDE 3.0680 RRA .6986 RC3 -.3172 FAU .02548
 FDE 5.7737 FRA 1.5511 FC3 -.4836 BSP 13256
 BDE 4.1555 BRA 1.3984 BC3 .3191 FSP -1498

MID-COURSE EXECUTION ACCURACY

SGT 2944.2 SGR 2821.4 SG3 468.1
 RRT -.9566 RRF -.9978 RTF -.9738
 SGB 4077.8 R23 -.0880 R13 .9961
 SGI 4033.4 SGE 600.4 TMA 136.28

ORBIT DETERMINATION ACCURACY

ST 2434.1 SR 2620.1 SS 2681.1
 CRT -.9949 CRS -.9998 CST .9968
 LSA 4465.8 MSA 188.3 SSA .5
 EL1 3571.8 EL2 179.7 ALF 132.88

LAUNCH DATE DEC 1 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 420.687

RL 147.50 LAL -.00 LOL 68.87 VL 27.730 GAL 5.18 AZL 8.87 MCA 179.55 SMA 128.77 ECC .17064 INC81.0976 V1 30.207
 RP 108.55 LAP .45 LOP 248.80 VP 37.612 GAP -3.87 AZP 171.13 TAL 153.25 TAP 332.79 RCA 106.80 APO 150.74 V2 34.911
 RC 60.976 GL 46.29 GP -53.56 ZAL 85.78 ZAP 86.54 ETS 176.53 ZAE 59.25 ETE 43.63 ZAC 114.68 ETC 351.62 CLP 84.17

PLANETOCENTRIC CONIC

C31424.694 VHL 37.745 DLA 36.30 RAL 325.80 RAD 6573.2 VEL 39.319 PTH 3.55 VHP 45.585 DPA -36.41 RAP 135.53 ECC24.4469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.27 19 31 42 4758.34 .79 213.48 237.00 53.71 20 51 1 4158.3 -3.94 207.44
 113.73 1 17 6 3679.09 .81 132.37 236.99 53.71 2 18 25 3079.1 -3.92 126.33
 66.27 19 31 42 4758.34 .79 213.48 237.00 53.71 20 51 1 4158.3 -3.94 207.44
 113.73 1 17 6 3679.09 .81 132.37 236.99 53.71 2 18 25 3079.1 -3.92 126.33
 66.27 19 31 42 4758.34 .79 213.48 237.00 53.71 20 51 1 4158.3 -3.94 207.44
 113.73 1 17 6 3679.09 .81 132.37 236.99 53.71 2 18 25 3079.1 -3.92 126.33

DIFFERENTIAL CORRECTIONS

TDE-7.7618 TRA 2.2518 TC3 -.1365 BAU 5.9323
 RD-19.7669 RRA-2.4111 RC3 -.2800 FAU-.10744
 FDE 4.4873 FRA -4.780 FC3 .0853 BSP 3917
 BDE21.2362 BRA 3.2991 BC3 .3115 FSP -76

MID-COURSE EXECUTION ACCURACY

SGT 1621.7 SGR 3688.1 SG3 .73.1
 RRT .9205 RRF -.9998 RTF -.9278
 SGB 4038.0 R23 -.0415 R13 -.9991
 SGI 3995.2 SGE 588.5 TMA 67.51

ORBIT DETERMINATION ACCURACY

ST 1185.5 SR 3004.3 SS 2685.5
 CRT .9883 CRS 1.0000 CST .9892
 LSA 4196.9 MSA 171.0 SSA 1.0
 EL1 3225.4 EL2 168.3 ALF 68.63

LAUNCH DATE DEC 1 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 427.650

RL 147.50 LAL -.00 LOL 68.87 VL 27.756 GAL 5.01 AZL 94.82 MCA 183.12 SMA 128.95 ECC .16778 INC 4.8152 V1 30.207
 RP 108.58 LAP .26 LOP 251.98 VP 37.620 GAP -3.28 AZP 85.19 TAL 153.63 TAP 336.75 RCA 107.32 APO 150.59 V2 34.900
 RC 63.000 GL -31.52 GP 58.51 ZAL 52.55 ZAP 67.92 ETS 322.55 ZAE 123.77 ETE 76.19 ZAC 93.63 ETC 148.93 CLP -43.97

PLANETOCENTRIC CONIC

C3 19.717 VHL 4.440 DLA -19.85 RAL 34.36 RAD 6567.8 VEL 11.878 PTH 2.11 VHP 6.277 DPA 58.50 RAP 347.25 ECC 1.3245
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 11 46 19 1539.34 .50 2.10 255.51 118.31 12 11 59 939.3 4.28 355.46
 90.00 18 8 38 5526.68 28.32 256.82 262.73 90.22 19 40 45 4926.7 28.05 248.16
 100.00 12 55 3 1317.58 -.85 345.05 254.76 119.88 13 17 0 717.6 3.13 338.52
 100.00 19 42 36 5223.68 29.86 234.51 262.71 88.64 21 9 40 4623.7 29.36 225.74
 110.00 13 36 11 1188.67 -4.19 333.19 252.68 123.96 13 55 59 588.7 .29 326.98
 110.00 21 17 58 4925.35 33.79 211.58 262.44 84.51 22 40 3 4325.4 32.66 202.52

DIFFERENTIAL CORRECTIONS

TDE -.5020 TRA-1.5040 TC3 .1366 BAU .3123
 RDE -.2918 RRA-2.6223 RC3 1.1769 FAU .03920
 FDE .5130 FRA 3.7981 FC3-1.7211 BSP 13726
 BDE .5806 BRA 3.0230 BC3 1.1848 FSP -1483

MID-COURSE EXECUTION ACCURACY

SGT 2166.0 SGR 3765.1 SG3 472.6
 RRT .9556 RRF -.9998 RTF -.9592
 SGB 4343.7 R23 -.0598 R13 -.9981
 SGI 4307.7 SGE 557.7 TMA 60.66

ORBIT DETERMINATION ACCURACY

ST 896.0 SR 1143.5 SS 920.9
 CRT .8902 CRS .9979 CST .9179
 LSA 1685.9 MSA 340.6 SSA 1.9
 EL1 1414.7 EL2 329.9 ALF 52.73

LAUNCH DATE DEC 1 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 434.114

RL 147.50 LAL -.00 LOL 68.87 VL 27.779 GAL 4.95 AZL 90.67 MCA 186.28 SMA 129.11 ECC .16600 INC .6618 V1 30.207
 RP 108.62 LAP .07 LOP 255.15 VP 37.627 GAP -2.82 AZP 89.33 TAL 153.65 TAP 339.93 RCA 107.68 APO 150.55 V2 34.889
 RC 65.076 GL -5.04 GP 38.81 ZAL 43.70 ZAP 61.16 ETS 336.23 ZAE 143.32 ETE 76.85 ZAC 101.57 ETC 153.41 CLP -51.75

PLANETOCENTRIC CONIC

C3 13.647 VHL 3.694 DLA 5.13 RAL 25.39 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 4.247 DPA 41.30 RAP 3.20 ECC 1.2246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 44 27 2286.49 -21.25 46.09 241.99 109.17 8 22 34 1686.5 -18.44 38.54
 90.00 20 58 58 4611.49 12.91 195.36 240.15 64.58 22 15 49 4011.5 9.38 188.46
 100.00 9 8 13 2016.33 -22.19 25.85 241.62 110.56 9 41 49 1416.3 -19.20 18.34
 100.00 22 17 53 4356.88 13.81 176.18 239.69 63.22 23 30 30 3756.9 10.11 169.35
 110.00 10 22 0 1785.41 -24.72 7.18 240.48 114.40 10 51 45 1185.4 -21.22 359.78
 110.00 23 20 36 4160.56 16.21 159.93 236.33 59.49 24 29 56 3560.6 12.04 153.30

DIFFERENTIAL CORRECTIONS

TDE -.4356 TRA-1.0858 TC3 .1017 BAU .2539
 RDE -.5439 RRA-1.7158 RC3 1.3877 FAU .08410
 FDE 2.2173 FRA 6.4289 FC3-5.3351 BSP 11009
 BDE .6988 BRA 2.0294 BC3 1.3914 FSP -2949

MID-COURSE EXECUTION ACCURACY

SGT 1819.5 SGR 2983.6 SG3 975.9
 RRT .9499 RRF -.9997 RTF -.9496
 SGB 3494.8 R23 -.0841 R13 -.9962
 SGI 3480.0 SGE 490.6 TMA 59.23

ORBIT DETERMINATION ACCURACY

ST 844.3 SR 1164.1 SS 1676.0
 CRT .9929 CRS .9991 CST .9969
 LSA 2206.9 MSA 81.3 SSA 8.5
 EL1 1435.7 EL2 81.3 ALF 54.11

LAUNCH DATE DEC 1 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 440.568

RL 147.50 LAL -0.00 LOL 68.87 VL 27.799 GAL 4.89 AZL 89.30 HCA 189.46 SMA 129.25 ECC .16449 INC .6995 V1 30.207
 RP 108.65 LAP -1.11 LOP 258.33 VP 37.631 GAP -2.36 AZP 90.69 TAL 153.66 TAP 343.11 RCA 107.99 APO 150.51 V2 34.878
 RC 67.198 GL 5.28 GP 29.03 ZAL 43.74 ZAP 61.55 ETS 344.67 ZAE 153.09 ETE 78.22 ZAC 104.57 ETC 156.40 CLP -56.99

PLANETOCENTRIC CONIC

C3 13.417 VHL 3.663 DLA 14.73 RAL 21.54 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 3.656 DPA 31.98 RAP 7.47 ECC 1.2208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 10 49 2599.53 -26.67 67.37 241.10 99.89 6 54 8 1999.5 -25.03 59.09
 90.00 22 1 54 4291.06 2.97 177.06 236.29 61.83 23 13 25 3691.1 -0.82 170.43
 100.00 7 40 5 2311.62 -27.81 45.95 240.86 101.44 8 18 37 1711.6 -25.94 37.65
 100.00 23 15 19 4054.20 3.99 159.09 235.73 60.35 24 22 53 3454.2 .01 152.56
 110.00 9 6 3 2042.63 -30.78 24.70 240.04 105.66 9 40 6 1442.6 -28.32 16.37
 110.00 0 9 46 3895.95 6.59 145.48 234.12 56.38 1 14 42 3296.0 2.13 139.23

DIFFERENTIAL CORRECTIONS

TDE -.3841 TRA -.8523 TC3 -.0051 BAU .2090
 RDE -.5561 RRA-1.2924 RC3 1.1653 FAU .11285
 FDE 3.7654 FRA 7.8769 FC3-7.2816 BSP 9390
 BDE .6759 BRA 1.5481 BC3 1.1653 FSP -4024

MID-COURSE EXECUTION ACCURACY

SGT 1503.8 SGR 2419.7 SG3 1297.3
 RRT .9347 RRF -.9993 RTF -.9337
 SGB 2848.9 R23 -.0993 R13 -.9944
 SGI 2811.5 SGE 460.0 TMA 58.92

ORBIT DETERMINATION ACCURACY

ST 729.4 SR 1072.7 SS 2218.3
 CRT .9995 CRS .9988 CST .9994
 LSA 2569.2 MSA 49.0 SSA 15.9
 EL1 1297.0 EL2 19.5 ALF 55.79

LAUNCH DATE DEC 1 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 447.003

RL 147.50 LAL -0.00 LOL 68.87 VL 27.816 GAL 4.85 AZL 88.62 HCA 192.63 SMA 129.37 ECC .16325 INC 1.3826 V1 30.207
 RP 108.68 LAP -0.30 LOP 261.50 VP 37.634 GAP -1.92 AZP 91.35 TAL 153.64 TAP 346.27 RCA 108.25 APO 150.49 V2 34.867
 RC 69.360 GL 10.45 GP 23.42 ZAL 44.53 ZAP 64.61 ETS 350.11 ZAE 158.83 ETE 83.04 ZAC 105.29 ETC 158.64 CLP -62.14

PLANETOCENTRIC CONIC

C3 13.594 VHL 3.687 DLA 19.50 RAL 19.45 RAD 6567.5 VEL 11.618 PTH 2.04 VHP 3.356 DPA 26.17 RAP 8.63 ECC 1.2237
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 15 5 2783.21 -28.13 80.60 241.13 93.42 6 1 28 2183.2 -27.36 72.02
 90.00 22 40 58 4113.09 -2.76 167.13 235.40 61.81 23 49 31 3513.1 -6.51 160.46
 100.00 6 48 39 2481.53 -29.48 58.29 241.01 95.16 7 30 0 1881.5 -28.46 49.64
 100.00 23 50 6 3890.00 -1.57 150.07 234.74 60.15 24 54 56 3290.0 -5.54 143.52
 110.00 8 23 13 2185.63 -32.93 35.29 240.49 99.75 8 59 39 1585.6 -31.23 26.48
 110.00 0 35 57 3758.66 1.37 138.27 232.90 55.84 1 38 55 3158.7 -5.12 132.07

DIFFERENTIAL CORRECTIONS

TDE -.2975 TRA -.6426 TC3 -.1573 BAU .1796
 RDE -.5254 RRA-1.0628 RC3 .9757 FAU .13082
 FDE 5.0492 FRA 8.8872 FC3-8.3314 BSP 7856
 BDE .6038 BRA 1.2420 BC3 .9883 FSP -4736

MID-COURSE EXECUTION ACCURACY

SGT 1161.7 SGR 2082.5 SG3 1530.9
 RRT .8974 RRF -.9986 RTF -.8956
 SGB 2367.2 R23 -.1046 R13 -.9932
 SGI 2323.0 SGE 455.1 TMA 62.02

ORBIT DETERMINATION ACCURACY

ST 561.0 SR 971.3 SS 2608.2
 CRT .9991 CRS .9981 CST .9954
 LSA 2838.2 MSA 73.0 SSA 12.3
 EL1 1121.5 EL2 20.2 ALF 60.00

LAUNCH DATE DEC 1 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 453.418

RL 147.50 LAL -0.00 LOL 68.87 VL 27.830 GAL 4.83 AZL 88.20 HCA 195.81 SMA 129.47 ECC .16228 INC 1.7955 V1 30.207
 RP 108.72 LAP -0.49 LOP 264.67 VP 37.635 GAP -1.47 AZP 91.73 TAL 153.59 TAP 349.40 RCA 108.46 APO 150.48 V2 34.858
 RC 71.560 GL 13.53 GP 19.78 ZAL 45.20 ZAP 68.87 ETS 353.83 ZAE 162.39 ETE 92.14 ZAC 104.82 ETC 160.39 CLP -67.47

PLANETOCENTRIC CONIC

C3 13.794 VHL 3.714 DLA 22.34 RAL 18.16 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 3.165 DPA 22.03 RAP 8.44 ECC 1.2270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 35 38 2911.52 -28.29 89.98 241.15 88.73 5 24 10 2311.5 -28.17 81.31
 90.00 23 10 8 3991.15 -6.65 160.28 235.36 62.41 24 16 40 3391.2 -10.30 153.50
 100.00 6 13 12 2596.94 -29.89 66.84 241.16 90.68 6 56 29 1996.9 -29.47 58.06
 100.00 0 19 12 3780.97 -5.25 144.07 234.59 60.53 1 22 13 3181.0 -9.14 137.44
 110.00 7 54 57 2278.63 -33.77 42.42 240.91 95.61 8 32 55 1678.6 -32.63 33.37
 110.00 0 53 56 3672.04 -1.94 133.76 232.54 55.87 1 55 8 3072.0 -6.41 127.52

DIFFERENTIAL CORRECTIONS

TDE -.1744 TRA -.4264 TC3 -.3262 BAU .1679
 RDE -.4809 RRA -.9135 RC3 .8498 FAU .14495
 FDE 6.0813 FRA 9.6428 FC3-9.0977 BSP 6556
 BDE .5115 BRA 1.0081 BC3 .9103 FSP -5328

MID-COURSE EXECUTION ACCURACY

SGT 798.1 SGR 1808.4 SG3 1711.4
 RRT .7832 RRF -.9975 RTF -.7797
 SGB 1976.6 R23 -.0919 R13 -.9932
 SGI 1920.6 SGE 467.2 TMA 69.68

ORBIT DETERMINATION ACCURACY

ST 343.5 SR 871.6 SS 2885.0
 CRT .9921 CRS .9970 CST .9802
 LSA 3031.9 MSA 91.2 SSA 11.2
 EL1 935.9 EL2 40.1 ALF 68.60

LAUNCH DATE DEC 1 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 459.810

RL 147.50 LAL -0.00 LOL 68.87 VL 27.841 GAL 4.81 AZL 87.93 HCA 198.98 SMA 129.55 ECC .16157 INC 2.0732 V1 30.207
 RP 108.74 LAP -0.67 LOP 267.84 VP 37.635 GAP -1.04 AZP 91.96 TAL 153.52 TAP 352.50 RCA 108.62 APO 150.48 V2 34.848
 RC 73.792 GL 15.57 GP 17.21 ZAL 45.70 ZAP 73.78 ETS 356.50 ZAE 164.25 ETE 105.38 ZAC 103.64 ETC 161.80 CLP -73.00

PLANETOCENTRIC CONIC

C3 13.982 VHL 3.739 DLA 24.22 RAL 17.32 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 3.033 DPA 18.74 RAP 7.49 ECC 1.2301
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 39 3011.92 -27.92 97.30 241.13 85.08 4 54 51 2411.9 -28.31 88.65
 90.00 23 34 24 3896.71 -9.59 154.80 235.66 63.23 24 39 20 3296.7 -13.11 147.99
 100.00 5 46 23 2683.95 -29.78 73.31 241.27 87.28 6 31 7 2083.9 -29.84 64.50
 100.00 0 39 17 3699.95 -7.94 139.56 234.78 61.09 1 40 57 3099.9 -11.74 132.83
 110.00 7 34 36 2345.39 -34.10 47.80 241.28 92.56 8 13 41 1745.4 -33.37 38.44
 110.00 1 7 34 3611.24 -4.26 130.58 232.51 56.05 2 7 45 3011.2 -8.69 124.29

DIFFERENTIAL CORRECTIONS

TDE -.0233 TRA -.2002 TC3 -.5147 BAU .1713
 RDE -.4333 RRA -.8056 RC3 .7580 FAU .15605
 FDE 6.9146 FRA10.2189 FC3-9.6620 BSP 5432
 BDE .4339 BRA .8301 BC3 .9162 FSP -5821

MID-COURSE EXECUTION ACCURACY

SGT 512.4 SGR 1610.7 SG3 1851.6
 RRT .3159 RRF -.9957 RTF -.3071
 SGB 1690.2 R23 -.0407 R13 -.9949
 SGI 1619.6 SGE 483.4 TMA 83.70

ORBIT DETERMINATION ACCURACY

ST 107.7 SR 778.5 SS 3087.4
 CRT .7696 CRS .9954 CST .7062
 LSA 3184.1 MSA 104.4 SSA 10.9
 EL1 782.9 EL2 68.3 ALF 83.88

LAUNCH DATE DEC 1 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 466.182

RL 147.50 LAL -.00 LOL 68.87 VL 27.850 GAL 4.82 AZL 87.73 MCA 202.15 SMA 129.61 ECC .16112 INC 2.2737 V1 30.207
 RP 108.77 LAP -.86 LOP 271.00 VP 37.634 GAP -.61 AZP 92.11 TAL 153.42 TAP 355.57 RCA 108.73 APO 150.49 V2 34.839
 RC 76.053 GL 17.01 GP 15.25 ZAL 46.04 ZAP 79.09 ETS 358.51 ZAE 164.47 ETE 120.78 ZAC 102.00 ETC 162.96 CLP -78.69

PLANETOCENTRIC CONIC

C3 14.168 VHL 3.764 DLA 25.57 RAL 16.76 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 2.943 DPA 15.93 RAP 6.10 ECC 1.2332
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 38 26 3097.38 -27.27 103.46 241.08 82.05 4 30 3 2497.4 -28.09 94.89
 90.00 0 0 6 3817.07 -12.00 150.28 236.17 64.16 1 3 43 3217.1 -15.38 143.24
 100.00 5 24 50 2754.32 -29.44 78.51 241.37 84.57 6 10 45 2154.3 -29.88 69.73
 100.00 0 56 22 3635.36 -10.05 135.92 235.16 61.70 1 56 58 3035.4 -13.75 129.09
 110.00 7 19 11 2396.59 -34.18 51.60 241.62 90.19 7 59 7 1796.6 -33.78 42.38
 110.00 1 18 31 3565.86 -5.98 128.19 232.69 56.28 2 17 57 2965.9 -10.37 121.85

DIFFERENTIAL CORRECTIONS

TDE .1498 TRA .0354 TC3 -.7208 BAU .1881
 RDE -.3852 RRA -.7211 RC3 .6820 FAU .16368
 FDE 7.5671 FRA10.6351 FC-10.0013 BSP 4594
 BOE .4133 BRA .7220 BC3 .9929 FSP -6185

MID-COURSE EXECUTION ACCURACY

SGT 591.6 SGR 1445.2 SG3 1953.9
 RRT -.5675 RRF -.9932 RTF .5818
 SGB 1561.7 R23 .0600 R13 -.9916
 SG1 1488.3 SG2 473.0 TMA 104.59

ORBIT DETERMINATION ACCURACY

ST 229.4 SR 690.9 SS 3233.6
 CRT -.8868 CRS .9928 CST -.9350
 LSA 3312.8 MSA 114.7 SSA 11.0
 EL1 720.8 EL2 101.6 ALF 106.75

LAUNCH DATE DEC 1 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 472.531

RL 147.50 LAL -.00 LOL 68.87 VL 27.856 GAL 4.83 AZL 87.57 MCA 205.32 SMA 129.65 ECC .16090 INC 2.4262 V1 30.207
 RP 108.80 LAP -.04 LOP 274.17 VP 37.631 GAP -.19 AZP 92.19 TAL 153.28 TAP 358.60 RCA 108.79 APO 150.52 V2 34.831
 RC 78.340 GL 18.06 GP 13.67 ZAL 46.25 ZAP 84.63 ETS .06 ZAE 163.22 ETE 135.10 ZAC 100.08 ETC 163.90 CLP -84.47

PLANETOCENTRIC CONIC

C3 14.363 VHL 3.790 DLA 26.58 RAL 16.41 RAD 6567.6 VEL 11.651 PTH 2.05 VHP 2.888 DPA 13.42 RAP 4.43 ECC 1.2364
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 14 42 3175.65 -26.41 109.03 241.02 79.39 4 7 38 2575.7 -27.61 100.57
 90.00 0 20 59 3744.81 -14.10 146.02 236.84 65.19 1 23 24 3144.8 -17.33 138.83
 100.00 5 6 49 2814.22 -29.97 82.90 241.49 82.30 5 53 43 2214.2 -29.74 74.18
 100.00 1 11 34 3581.48 -11.77 132.85 235.66 62.32 2 11 15 2981.5 -15.39 125.92
 110.00 7 7 9 2437.72 -34.15 54.81 241.99 88.29 7 47 46 1837.7 -34.01 45.57
 110.00 1 27 43 3530.74 -7.30 126.33 232.99 56.51 2 26 34 2930.7 -11.66 119.94

DIFFERENTIAL CORRECTIONS

TDE .3400 TRA .2781 TC3 -.9340 BAU .2154
 RDE -.3351 RRA -.6488 RC3 .6212 FAU .16894
 FDE 8.0055 FRA10.8548 FC-10.1830 BSP 4347
 BOE .4774 BRA .7059 BC3 1.1217 FSP -6469

MID-COURSE EXECUTION ACCURACY

SGT 993.2 SGR 1296.6 SG3 2013.0
 RRT -.8615 RRF -.9895 RTF .8779
 SGB 1633.3 R23 .1378 R13 -.9811
 SG1 1580.0 SG2 413.9 TMA 126.31

ORBIT DETERMINATION ACCURACY

ST 533.4 SR 604.2 SS 3318.6
 CRT -.9528 CRS .9889 CST -.9871
 LSA 3412.8 MSA 123.3 SSA 11.0
 EL1 796.6 EL2 122.9 ALF 131.27

LAUNCH DATE DEC 1 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 478.858

RL 147.50 LAL -.00 LOL 68.87 VL 27.861 GAL 4.86 AZL 87.45 MCA 208.49 SMA 129.69 ECC .16093 INC 2.5465 V1 30.207
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.627 GAP -.22 AZP 92.24 TAL 153.11 TAP 1.59 RCA 108.82 APO 150.56 V2 34.824
 RC 80.651 GL 18.85 GP 12.33 ZAL 46.36 ZAP 90.26 ETS 1.27 ZAE 160.89 ETE 146.38 ZAC 98.03 ETC 164.66 CLP -90.26

PLANETOCENTRIC CONIC

C3 14.575 VHL 3.818 DLA 27.37 RAL 16.21 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 2.865 DPA 11.13 RAP 2.64 ECC 1.2399
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 51 27 3253.50 -25.32 114.47 240.96 76.87 3 45 41 2653.5 -26.87 106.15
 90.00 0 42 40 3673.47 -16.10 141.73 237.69 66.38 1 43 53 3073.5 -19.15 134.39
 100.00 4 51 17 2867.19 -28.43 86.75 241.66 80.35 5 39 4 2267.2 -29.47 78.10
 100.00 1 25 31 3535.01 -13.23 130.16 236.28 62.95 2 24 26 2935.0 -16.75 123.14
 110.00 6 57 37 2471.88 -34.04 57.47 242.40 86.72 7 38 48 1871.9 -34.12 48.23
 110.00 1 35 41 3503.08 -8.34 124.86 233.39 56.73 2 34 4 2903.1 -12.66 118.43

DIFFERENTIAL CORRECTIONS

TDE .5401 TRA .5237 TC3-1.1508 BAU .2498
 RDE -.2849 RRA -.5856 RC3 .5652 FAU .17077
 FDE 8.2510 FRA10.8991 FC-10.1439 BSP 4795
 BOE .6107 BRA .7836 BC3 1.2821 FSP -6618

MID-COURSE EXECUTION ACCURACY

SGT 1487.5 SGR 1161.2 SG3 2031.0
 RRT -.9273 RRF -.9842 RTF .9479
 SGB 1887.0 R23 .1430 R13 -.9783
 SG1 1854.5 SG2 348.6 TMA 142.55

ORBIT DETERMINATION ACCURACY

ST 853.4 SR 520.7 SS 3356.5
 CRT -.9582 CRS .9825 CST -.9946
 LSA 3499.8 MSA 130.7 SSA 11.1
 EL1 991.5 EL2 128.3 ALF 149.11

LAUNCH DATE DEC 1 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 485.164

RL 147.50 LAL -.00 LOL 68.87 VL 27.863 GAL 4.90 AZL 87.36 MCA 211.65 SMA 129.70 ECC .16119 INC 2.6446 V1 30.207
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.622 GAP -.63 AZP 92.25 TAL 152.90 TAP 4.55 RCA 108.80 APO 150.61 V2 34.816
 RC 82.981 GL 19.44 GP 11.18 ZAL 46.37 ZAP 95.87 ETS 2.23 ZAE 157.93 ETE 154.56 ZAC 95.95 ETC 165.26 CLP -95.99

PLANETOCENTRIC CONIC

C3 14.812 VHL 3.849 DLA 27.98 RAL 16.14 RAD 6567.6 VEL 11.670 PTH 2.05 VHP 2.869 DPA 9.03 RAP .83 ECC 1.2438
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 24 52 3343.33 -23.79 120.60 240.81 74.17 3 20 36 2743.3 -25.73 112.47
 90.00 1 8 41 3590.81 -18.28 136.65 238.78 67.99 2 8 32 2990.8 -21.11 129.12
 100.00 4 37 36 2915.45 -27.83 90.21 241.89 78.62 5 26 11 2315.5 -29.12 81.64
 100.00 1 38 39 3493.92 -14.48 127.76 237.01 63.56 2 36 53 2893.9 -17.92 120.66
 110.00 6 50 2 2500.95 -33.91 59.73 242.89 85.39 7 31 43 1901.0 -34.17 50.50
 110.00 1 42 42 3481.19 -9.15 123.69 233.89 56.92 2 40 43 2881.2 -13.45 117.22

DIFFERENTIAL CORRECTIONS

TDE .7437 TRA .7674 TC3-1.3644 BAU .2887
 RDE -.2349 RRA -.5290 RC3 .5142 FAU .16954
 FDE 8.3031 FRA10.7711 FC3-9.9095 BSP 5809
 BOE .7799 BRA .9321 BC3 1.4581 FSP -6652

MID-COURSE EXECUTION ACCURACY

SGT 2000.7 SGR 1036.4 SG3 2009.1
 RRT -.9436 RRF -.9765 RTF .9714
 SGB 2253.2 R23 .1138 R13 -.9815
 SG1 2232.1 SG2 307.5 TMA 153.41

ORBIT DETERMINATION ACCURACY

ST 1173.7 SR 440.5 SS 3349.2
 CRT -.9506 CRS .9718 CST -.9969
 LSA 3573.5 MSA 137.2 SSA 11.2
 EL1 1247.0 EL2 128.7 ALF 160.15

LAUNCH DATE DEC 1 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -.00 LOL 68.87 VL 27.863 GAL 4.96 AZL 87.27 MCA 214.82 SMA 129.71 ECC .16168 INC 2.7265 V1 30.207
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.616 GAP 1.04 AZP 92.24 TAL 152.65 TAP 7.47 RCA 108.73 APO 150.68 V2 34.810
 RC 85.328 GL 19.88 GP 10.15 ZAL 46.30 ZAP 101.37 ETS 2.99 ZAE 154.66 ETE 160.34 ZAC 93.95 ETC 165.70 CLP-101.56

PLANETOCENTRIC CONIC

C3 15.080 VHL 3.883 DLA 28.48 RAL 16.18 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 2.900 DPA 7.11 RAP 359.09 ECC 1.2482
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.81 1 20 21 3557.26 -21.28 135.40 240.32 70.61 2 19 38 2957.3 -23.73 127.57
 93.19 2 13 33 3384.90 -21.27 122.78 240.31 70.60 3 9 58 2784.9 -23.72 114.95
 100.00 4 25 18 2960.54 -27.18 93.40 242.19 77.06 5 14 39 2360.5 -28.69 84.92
 100.00 1 51 17 3456.86 -15.60 125.57 237.83 64.17 2 48 53 2856.9 -18.94 118.38
 110.00 6 44 4 2526.16 -33.75 61.69 243.45 84.24 7 26 10 1926.2 -34.18 52.47
 110.00 1 49 0 3464.00 -9.79 122.77 234.48 57.08 2 46 44 2864.0 -14.06 116.27

DIFFERENTIAL CORRECTIONS

TDE .9457 TRA 1.0063 TC3-1.5664 BAU .3295
 RDE -.1862 RRA -.4782 RC3 .4668 FAU .16526
 FDE 8.1898 FRA10.4974 FC3-9.4876 BSP 7118
 BDE .9639 BRA 1.1141 BC3 1.6345 FSP -6562

MID-COURSE EXECUTION ACCURACY

SGT 2506.0 SGR 922.7 SG3 1952.7
 RRT -.9430 RRF -.9656 RTF .9815
 SGB 2670.5 R23 .0828 R13 -.9854
 SGI 2654.7 SG2 289.9 THA 160.61

ORBIT DETERMINATION ACCURACY

ST 1485.0 SR 365.6 SS 3305.4
 CRT -.9319 CRS .9531 CST -.9979
 LSA 3639.3 MSA 143.0 SSA 11.2
 EL1 1523.8 EL2 129.2 ALF 166.98

LAUNCH DATE DEC 1 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -.00 LOL 68.87 VL 27.862 GAL 5.03 AZL 87.20 MCA 217.99 SMA 129.70 ECC .16240 INC 2.7962 V1 30.207
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.610 GAP 1.44 AZP 92.20 TAL 152.37 TAP 10.35 RCA 108.63 APO 150.76 V2 34.804
 RC 87.691 GL 20.20 GP 9.23 ZAL 46.15 ZAP 106.68 ETS 3.59 ZAE 151.32 ETE 164.46 ZAC 92.10 ETC 166.02 CLP-106.91

PLANETOCENTRIC CONIC

C3 15.383 VHL 3.922 DLA 28.88 RAL 16.32 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 2.955 DPA 5.38 RAP 357.50 ECC 1.2532
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.07 0 58 18 3634.81 -21.46 141.16 240.88 70.20 1 58 53 3034.8 -23.97 133.34
 95.93 2 36 43 3316.31 -21.45 117.81 240.87 70.19 3 32 0 2716.3 -23.96 109.99
 100.00 4 14 4 3003.58 -26.49 96.41 242.57 75.62 5 4 8 2403.6 -28.21 88.03
 100.00 2 3 38 3422.78 -16.60 123.54 238.74 64.78 3 0 41 2822.8 -19.86 116.26
 110.00 6 39 28 2548.31 -33.59 63.39 244.10 83.25 7 21 56 1948.3 -34.16 54.20
 110.00 1 54 43 3450.81 -10.28 122.05 235.15 57.22 2 52 14 2850.8 -14.53 115.53

DIFFERENTIAL CORRECTIONS

TDE 1.1418 TRA 1.2377 TC3-1.7514 BAU .3706
 RDE -.1397 RRA -.4332 RC3 .4231 FAU .15842
 FDE 7.9430 FRA10.1128 FC3-8.9153 BSP 8540
 BDE 1.1503 BRA 1.3113 BC3 1.8018 FSP -6370

MID-COURSE EXECUTION ACCURACY

SGT 2988.8 SGR 821.0 SG3 1869.5
 RRT -.9326 RRF -.9503 RTF .9865
 SGB 3099.5 R23 .0601 R13 -.9882
 SGI 3086.2 SG2 289.9 THA 165.50

ORBIT DETERMINATION ACCURACY

ST 1779.8 SR 297.9 SS 3233.0
 CRT -.8960 CRS .9193 CST -.9984
 LSA 3699.5 MSA 148.4 SSA 11.3
 EL1 1799.8 EL2 130.8 ALF 171.43

LAUNCH DATE DEC 1 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -.00 LOL 68.87 VL 27.859 GAL 5.11 AZL 87.14 MCA 221.15 SMA 129.67 ECC .16334 INC 2.8568 V1 30.207
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.603 GAP 1.84 AZP 92.15 TAL 152.05 TAP 13.20 RCA 108.49 APO 150.86 V2 34.799
 RC 90.065 GL 20.41 GP 8.40 ZAL 45.94 ZAP 111.74 ETS 4.06 ZAE 148.05 ETE 167.42 ZAC 90.48 ETC 166.23 CLP-111.99

PLANETOCENTRIC CONIC

C3 15.728 VHL 3.966 DLA 29.20 RAL 16.55 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 3.033 DPA 3.85 RAP 356.11 ECC 1.2588
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.54 0 46 55 3679.39 -21.58 144.49 241.54 69.83 1 48 14 3079.4 -24.13 136.68
 97.46 2 49 56 3281.73 -21.57 115.31 241.53 69.82 3 44 37 2681.7 -24.12 107.50
 100.00 4 3 35 3045.58 -25.75 99.31 243.01 74.26 4 54 20 2445.6 -27.66 91.03
 100.00 2 15 57 3390.76 -17.51 121.60 239.76 65.38 3 12 27 2790.8 -20.69 114.25
 110.00 6 36 4 2567.99 -33.42 64.91 244.84 82.37 7 18 52 1968.0 -34.12 55.73
 110.00 1 59 57 3441.12 -10.63 121.53 235.89 57.32 2 57 18 2841.1 -14.87 114.99

DIFFERENTIAL CORRECTIONS

TDE 1.3299 TRA 1.4613 TC3-1.9126 BAU .4101
 RDE -.0960 RRA -.3937 RC3 .3828 FAU .14925
 FDE 7.6068 FRA 9.6594 FC3-8.2155 BSP 9949
 BDE 1.3334 BRA 1.5134 BC3 1.9506 FSP -6079

MID-COURSE EXECUTION ACCURACY

SGT 3441.3 SGR 732.2 SG3 1768.2
 RRT -.9141 RRF -.9291 RTF .9892
 SGB 3518.4 R23 .0451 R13 -.9901
 SGI 3506.3 SG2 291.4 THA 168.92

ORBIT DETERMINATION ACCURACY

ST 2054.4 SR 239.9 SS 3142.6
 CRT -.8296 CRS .8565 CST -.9987
 LSA 3759.0 MSA 153.4 SSA 11.4
 EL1 2064.0 EL2 133.3 ALF 174.44

LAUNCH DATE DEC 1 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

RL 147.50 LAL -.00 LOL 68.87 VL 27.855 GAL 5.21 AZL 87.09 MCA 224.31 SMA 129.64 ECC .16451 INC 2.9101 V1 30.207
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.596 GAP 2.24 AZP 92.08 TAL 151.69 TAP 16.00 RCA 108.31 APO 150.97 V2 34.795
 RC 92.449 GL 20.54 GP 7.66 ZAL 45.65 ZAP 116.52 ETS 4.44 ZAE 144.94 ETE 169.60 ZAC 89.11 ETC 166.36 CLP-116.78

PLANETOCENTRIC CONIC

C3 16.116 VHL 4.015 DLA 29.46 RAL 16.86 RAD 6567.6 VEL 11.726 PTH 2.07 VHP 3.131 DPA 2.51 RAP 354.94 ECC 1.2652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.50 0 39 59 3711.14 -21.63 146.86 242.30 69.49 1 41 50 3111.1 -24.23 139.06
 98.50 2 59 19 3261.06 -21.62 113.80 242.30 69.48 3 53 40 2661.1 -24.22 106.00
 100.00 3 53 30 3087.65 -24.94 102.18 243.53 72.96 4 44 57 2487.6 -27.03 94.00
 100.00 2 28 30 3359.78 -18.38 119.71 240.89 68.01 3 24 29 2759.8 -21.47 112.28
 110.00 6 33 44 2585.59 -33.25 66.25 245.67 81.58 7 16 49 1985.6 -34.06 57.10
 110.00 2 4 45 3434.60 -10.87 121.18 236.71 57.39 3 1 59 2834.6 -15.10 114.62

DIFFERENTIAL CORRECTIONS

TDE 1.5060 TRA 1.6745 TC3-2.0517 BAU .4484
 RDE -.0549 RRA -.3589 RC3 .3477 FAU .13942
 FDE 7.1949 FRA 9.1497 FC3-7.4895 BSP 11330
 BDE 1.5070 BRA 1.7126 BC3 2.0810 FSP -5758

MID-COURSE EXECUTION ACCURACY

SGT 3855.9 SGR 855.9 SG3 1654.2
 RRT -.8870 RRF -.9005 RTF .9908
 SGB 3911.3 R23 .0353 R13 -.9913
 SGI 3899.9 SG2 299.5 THA 171.37

ORBIT DETERMINATION ACCURACY

ST 2302.3 SR 193.3 SS 3032.8
 CRT -.7062 CRS .7386 CST -.9989
 LSA 3809.3 MSA 158.2 SSA 11.5
 EL1 2306.4 EL2 136.6 ALF 176.59

LAUNCH DATE DEC 1 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 516.357

RL 147.50 LAL -.00 LOL 68.87 VL 27.849 GAL 5.33 AZL 87.04 MCA 227.48 SMA 129.60 ECC .16591 INC 2.9577 V1 30.207
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.588 GAP 2.64 AZP 92.00 TAL 151.29 TAP 18.77 RCA 108.10 APO 151.10 V2 34.791
 RC 94.840 GL 20.59 GP 7.00 ZAL 45.31 ZAP 120.99 ETS 4.74 ZAE 142.03 ETE 171.22 ZAC 88.01 ETC 166.42 CLP-121.25

PLANETOCENTRIC CONIC

C3 16.554 VHL 4.069 DLA 29.67 RAL 17.24 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 3.247 DPA 1.38 RAP 354.02 ECC 1.2724
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.76 3 35 43 3735.82 -21.63 148.69 243.16 69.18 1 37 58 3135.8 -24.26 140.90
 99.24 3 6 39 3248.61 -21.61 112.88 243.16 69.17 4 0 47 2648.6 -24.25 105.09
 100.00 3 43 15 3131.61 -24.03 105.13 244.09 71.66 4 35 26 2531.6 -26.31 97.07
 100.00 2 41 48 3328.06 -19.25 117.75 242.13 66.68 3 37 16 2728.1 -22.24 110.23
 110.00 6 32 22 2601.45 -33.09 67.46 246.60 80.89 7 15 43 2001.4 -33.99 58.34
 110.00 2 9 10 3430.98 -11.01 120.98 237.61 57.43 3 6 21 2831.0 -15.23 114.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6705 TRA 1.8792 TC3-2.1652 BAU .4843 SGT 4232.5 SGR 592.4 SG3 1535.4 ST 2524.2 SR 161.8 SS 2914.3
 ROE -.0169 RRA -3.288 RC3 .3165 FAU .12892 RRT -.8506 RRF -.8633 RTF .9918 CRT -.4954 CRS .5338 CST -.9990
 FDE 6.7493 FRA 8.6239 FC3-6.7422 BSP 12625 SGB 4273.8 R23 .0287 R13 -.9920 LSA 3855.4 MSA 162.8 SSA 11.6
 BOE 1.6706 BRA 1.9078 BC3 2.1882 FSP -5403 SGI 4262.6 SG2 309.2 THA 173.17 EL1 2525.5 EL2 140.5 ALF 178.18

LAUNCH DATE DEC 1 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 522.527

RL 147.50 LAL -.00 LOL 68.87 VL 27.841 GAL 5.46 AZL 87.00 MCA 230.64 SMA 129.55 ECC .16754 INC 3.0007 V1 30.207
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.580 GAP 3.04 AZP 91.90 TAL 150.86 TAP 21.50 RCA 107.84 APO 151.25 V2 34.788
 RC 97.236 GL 20.57 GP 6.40 ZAL 44.92 ZAP 125.16 ETS 4.99 ZAE 139.36 ETE 172.44 ZAC 87.19 ETC 166.45 CLP-125.41

PLANETOCENTRIC CONIC

C3 17.045 VHL 4.129 DLA 29.83 RAL 17.69 RAD 6567.7 VEL 11.766 PTH 2.08 VHP 3.379 DPA .44 RAP 353.36 ECC 1.2805
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.22 0 33 23 3755.72 -21.57 150.14 244.12 68.89 1 35 59 3155.7 -24.25 142.37
 99.78 3 12 34 3242.15 -21.56 112.58 244.11 68.87 4 6 36 2642.1 -24.24 104.61
 100.00 3 31 1 3183.21 -22.88 108.53 244.64 70.22 4 24 4 2583.2 -25.37 100.61
 100.00 2 57 37 3289.89 -20.26 115.37 243.56 67.54 3 52 27 2689.9 -23.13 107.75
 110.00 6 31 53 2615.80 -32.93 68.55 247.64 80.26 7 15 29 2015.8 -33.92 59.45
 110.00 2 13 14 3430.06 -11.04 120.93 238.58 57.44 3 10 24 2830.1 -15.26 114.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8237 TRA 2.0769 TC3-2.2533 BAU .5177 SGT 4572.3 SGR 540.8 SG3 1417.0 ST 2720.7 SR 147.8 SS 2792.2
 ROE .0183 RRA -.3030 RC3 .2890 FAU .11823 RRT -.8047 RRF -.8168 RTF .9923 CRT -.2015 CRS .2438 CST -.9990
 FDE 6.2952 FRA 8.1044 FC3-6.0050 BSP 13824 SGB 4604.2 R23 .0241 R13 -.9925 LSA 3897.7 MSA 167.2 SSA 11.7
 BOE 1.8238 BRA 2.0989 BC3 2.2717 FSP -5033 SGI 4593.1 SG2 319.6 THA 174.54 EL1 2720.9 EL2 144.7 ALF 179.37

LAUNCH DATE DEC 1 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 528.674

RL 147.50 LAL -.00 LOL 68.87 VL 27.833 GAL 5.60 AZL 86.96 MCA 233.80 SMA 129.49 ECC .16940 INC 3.0400 V1 30.207
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.571 GAP 3.44 AZP 91.80 TAL 150.40 TAP 24.20 RCA 107.55 APO 151.42 V2 34.786
 RC 99.636 GL 20.50 GP 5.87 ZAL 44.47 ZAP 129.02 ETS 5.20 ZAE 136.92 ETE 173.38 ZAC 86.65 ETC 166.44 CLP-129.27

PLANETOCENTRIC CONIC

C3 17.595 VHL 4.195 DLA 29.94 RAL 18.21 RAD 6567.7 VEL 11.789 PTH 2.08 VHP 3.527 DPA -.33 RAP 352.94 ECC 1.2896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.84 0 32 33 3772.31 -21.47 151.33 245.17 68.61 1 35 25 3172.3 -24.19 143.58
 100.16 3 17 31 3240.25 -21.46 112.19 245.16 68.60 4 11 31 2640.2 -24.17 104.45
 79.84 0 32 33 3772.31 -21.47 151.33 245.17 68.61 1 35 25 3172.3 -24.19 143.58
 100.16 3 17 31 3240.25 -21.46 112.19 245.16 68.60 4 11 31 2640.2 -24.17 104.45
 110.00 6 32 14 2628.85 -32.77 69.54 248.76 79.70 7 16 3 2028.8 -33.85 60.47
 110.00 2 17 0 3431.71 -10.98 121.02 239.62 57.42 3 14 12 2831.7 -15.20 114.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9661 TRA 2.2691 TC3-2.3159 BAU .5483 SGT 4876.5 SGR 499.9 SG3 1302.5 ST 2892.6 SR 150.0 SS 2669.8
 ROE .0509 RRA -.2807 RC3 .2645 FAU .10763 RRT -.7496 RRF -.7610 RTF .9925 CRT .1011 CRS -.0586 CST -.9991
 FDE 5.8489 FRA 7.6049 FC3-5.2955 BSP 14919 SGB 4902.1 R23 .0207 R13 -.9926 LSA 3935.4 MSA 171.4 SSA 11.9
 BOE 1.9668 BRA 2.2864 BC3 2.3310 FSP -4662 SGI 4891.0 SG2 329.9 THA 175.59 EL1 2892.6 EL2 149.2 ALF .30

LAUNCH DATE DEC 1 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 534.796

RL 147.50 LAL -.00 LOL 68.87 VL 27.823 GAL 5.77 AZL 86.92 MCA 236.96 SMA 129.42 ECC .17150 INC 3.0762 V1 30.207
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.562 GAP 3.84 AZP 91.68 TAL 149.90 TAP 26.86 RCA 107.22 APO 151.61 V2 34.784
 RC 102.036 GL 20.37 GP 5.40 ZAL 43.97 ZAP 132.60 ETS 5.38 ZAE 134.72 ETE 174.10 ZAC 86.36 ETC 166.43 CLP-132.84

PLANETOCENTRIC CONIC

C3 18.210 VHL 4.267 DLA 30.02 RAL 18.78 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 3.688 DPA -.92 RAP 352.75 ECC 1.2997
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.59 0 32 55 3786.43 -21.32 152.32 246.31 68.35 1 36 1 3186.4 -24.07 144.59
 100.41 3 21 43 3242.11 -21.31 112.27 246.30 68.34 4 15 45 2642.1 -24.06 104.54
 79.59 0 32 55 3786.43 -21.32 152.32 246.31 68.35 1 36 1 3186.4 -24.07 144.59
 100.41 3 21 43 3242.11 -21.31 112.27 246.30 68.34 4 15 45 2642.1 -24.06 104.54
 110.00 6 33 21 2640.77 -32.63 70.44 249.99 79.18 7 17 22 2040.8 -33.77 61.39
 110.00 2 20 28 3435.78 -10.83 121.24 240.72 57.38 3 17 43 2835.8 -15.06 114.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.1010 TRA 2.4602 TC3-2.3508 BAU .5753 SGT 5151.5 SGR 468.4 SG3 1195.1 ST 3044.9 SR 163.5 SS 2552.6
 ROE .0811 RRA -.2618 RC3 .2423 FAU .09709 RRT -.6865 RRF -.6972 RTF .9925 CRT .3362 CRS -.2964 CST -.9991
 FDE 5.4285 FRA 7.1424 FC3-4.6160 BSP 15866 SGB 5172.7 R23 .0178 R13 -.9926 LSA 3972.8 MSA 175.5 SSA 12.0
 BOE 2.1025 BRA 2.4740 BC3 2.3633 FSP -4285 SGI 5161.5 SG2 340.0 THA 176.41 EL1 3045.4 EL2 153.9 ALF 1.04

LAUNCH DATE DEC 1 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 540.893

RL 147.50 LAL -.00 LOL 68.87 VL 27.812 GAL 5.95 AZL 86.89 MCA 240.12 SMA 129.34 ECC .17385 INC 3.1099 V1 30.207
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.554 GAP 4.25 AZP 91.55 TAL 149.36 TAP 29.48 RCA 106.86 APO 151.83 V2 34.783
 RC 104.441 GL 20.20 GP 4.98 ZAL 43.43 ZAP 135.92 ETS 5.55 ZAE 132.73 ETE 174.68 ZAC 86.32 ETC 166.40 CLP-136.15

PLANETOCENTRIC CONIC

C3 18.894 VML 4.347 OLA 30.07 RAL 19.41 RAD 6567.8 VEL 11.844 PTH 2.10 VMP 3.862 DPA -1.37 RAP 352.78 ECC 1.3110
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.44 0 34 20 3798.52 -21.14 153.14 247.53 68.10 1 37 38 3198.5 -23.92 145.44
 100.56 3 23 18 3247.34 -21.12 112.58 247.53 68.09 4 19 25 2647.3 -23.91 104.88
 79.44 0 34 20 3798.52 -21.14 153.14 247.53 68.10 1 37 38 3198.5 -23.92 145.44
 100.56 3 23 18 3247.34 -21.12 112.58 247.53 68.09 4 19 25 2647.3 -23.91 104.88
 110.00 6 35 10 2651.71 -32.48 71.26 251.31 78.72 7 19 22 2051.7 -33.70 62.23
 110.00 2 23 38 3442.16 -10.60 121.59 241.89 57.31 3 21 1 2842.2 -14.83 115.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2247 TRA 2.6474 TC3-2.3685 BAU .6009 SGT 5394.2 SGR 444.8 SG3 1094.1 ST 3172.8 SR 182.9 SS 2435.2
 RDE .1096 RRA -.2451 RC3 .2230 FAU .08761 RRT -.6171 RRF -.6272 RTF .9924 CRT .4961 CRS -.4594 CST -.9991
 FDE 5.0245 FRA 6.7061 FC3-4.0142 BSP 16765 SGB 5412.5 R23 .0154 R13 -.9925 LSA 3999.7 MSA 179.5 SSA 12.2
 BDE 2.2274 BRA 2.6587 BC3 2.3790 FSP -3946 SG1 5401.2 SG2 349.5 THA 177.07 EL1 3174.1 EL2 158.8 ALF 1.64

LAUNCH DATE DEC 1 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 546.963

RL 147.50 LAL -.00 LOL 68.87 VL 27.800 GAL 6.14 AZL 86.86 MCA 243.28 SMA 129.26 ECC .17645 INC 3.1415 V1 30.207
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.545 GAP 4.66 AZP 91.41 TAL 148.80 TAP 32.08 RCA 106.45 APO 152.07 V2 34.783
 RC 106.844 GL 19.98 GP 4.61 ZAL 42.84 ZAP 139.00 ETS 5.71 ZAE 130.95 ETE 175.13 ZAC 86.51 ETC 166.38 CLP-139.21

PLANETOCENTRIC CONIC

C3 19.657 VML 4.434 OLA 30.08 RAL 20.08 RAD 6567.8 VEL 11.876 PTH 2.11 VMP 4.048 DPA -1.67 RAP 353.02 ECC 1.3235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.40 0 36 40 3809.03 -20.91 153.82 248.84 67.86 1 40 9 3209.0 -23.73 146.15
 100.60 3 28 21 3255.54 -20.90 113.09 248.84 67.85 4 22 37 2655.5 -23.72 105.41
 79.40 0 36 40 3809.03 -20.91 153.82 248.84 67.86 1 40 9 3209.0 -23.73 146.15
 100.60 3 28 21 3255.54 -20.90 113.09 248.84 67.85 4 22 37 2655.5 -23.72 105.41
 110.00 6 37 38 2661.80 -32.35 72.01 252.73 78.29 7 22 0 2061.8 -33.62 63.01
 110.00 2 26 33 3450.77 -10.28 122.05 243.12 57.22 3 24 4 2850.8 -14.53 115.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3409 TRA 2.8345 TC3-2.3666 BAU .6243 SGT 5610.3 SGR 427.6 SG3 1001.0 ST 3281.5 SR 204.7 SS 2322.5
 RDE .1367 RRA -.2305 RC3 .2054 FAU .07879 RRT -.5439 RRF -.5531 RTF .9922 CRT .5998 CRS -.5660 CST -.9991
 FDE 4.6496 FRA 6.3048 FC3-3.4703 BSP 17592 SGB 5626.6 R23 .0133 R13 -.9923 LSA 4021.2 MSA 183.4 SSA 12.3
 BDE 2.3449 BRA 2.8438 BC3 2.3755 FSP -3632 SG1 5615.1 SG2 358.5 THA 177.62 EL1 3283.8 EL2 163.7 ALF 2.15

LAUNCH DATE DEC 1 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 553.006

RL 147.50 LAL -.00 LOL 68.87 VL 27.787 GAL 6.36 AZL 86.83 MCA 246.44 SMA 129.17 ECC .17932 INC 3.1715 V1 30.207
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.536 GAP 5.08 AZP 91.27 TAL 148.21 TAP 34.65 RCA 106.01 APO 152.33 V2 34.784
 RC 109.246 GL 19.72 GP 4.28 ZAL 42.22 ZAP 141.85 ETS 5.87 ZAE 129.36 ETE 175.50 ZAC 86.89 ETC 166.36 CLP-142.06

PLANETOCENTRIC CONIC

C3 20.505 VML 4.528 OLA 30.07 RAL 20.80 RAD 6567.8 VEL 11.912 PTH 2.12 VMP 4.246 DPA -1.85 RAP 353.44 ECC 1.3375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.44 0 39 51 3818.08 -20.64 154.38 250.24 67.63 1 43 29 3218.1 -23.49 146.73
 100.56 3 30 54 3266.61 -20.63 113.80 250.23 67.62 4 25 21 2666.6 -23.48 106.15
 79.44 0 39 51 3818.08 -20.64 154.38 250.24 67.63 1 43 29 3218.1 -23.49 146.73
 100.56 3 30 54 3266.61 -20.63 113.80 250.23 67.62 4 25 21 2666.6 -23.48 106.15
 110.00 6 40 42 2671.18 -32.21 72.71 254.24 77.90 7 25 14 2071.2 -33.55 63.73
 110.00 2 29 13 3461.51 -9.88 122.63 244.42 57.11 3 26 55 2861.5 -14.15 116.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4506 TRA 3.0240 TC3-2.3459 BAU .6452 SGT 5803.1 SGR 415.5 SG3 916.0 ST 3373.1 SR 226.7 SS 2215.4
 RDE .1625 RRA -.2174 RC3 .1892 FAU .07060 RRT -.4693 RRF -.4773 RTF .9919 CRT .6680 CRS -.6364 CST -.9991
 FDE 4.3053 FRA 5.9410 FC3-2.9807 BSP 18325 SGB 5817.9 R23 .0113 R13 -.9920 LSA 4037.6 MSA 187.2 SSA 12.4
 BDE 2.4559 BRA 3.0318 BC3 2.3535 FSP -3337 SG1 5806.4 SG2 366.7 THA 178.07 EL1 3376.5 EL2 168.6 ALF 2.58

LAUNCH DATE DEC 1 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 559.020

RL 147.50 LAL -.00 LOL 68.87 VL 27.775 GAL 6.60 AZL 86.80 MCA 249.60 SMA 129.07 ECC .18247 INC 3.2000 V1 30.207
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.527 GAP 5.50 AZP 91.12 TAL 147.58 TAP 37.19 RCA 105.52 APO 152.63 V2 34.785
 RC 111.645 GL 19.42 GP 3.98 ZAL 41.56 ZAP 144.51 ETS 6.04 ZAE 127.93 ETE 175.81 ZAC 87.46 ETC 166.34 CLP-144.71

PLANETOCENTRIC CONIC

C3 21.448 VML 4.631 OLA 30.03 RAL 21.56 RAD 6567.9 VEL 11.951 PTH 2.13 VMP 4.455 DPA -1.91 RAP 354.03 ECC 1.3530
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.56 0 43 51 3825.78 -20.33 154.82 251.71 67.41 1 47 37 3225.8 -23.22 147.20
 100.44 3 32 58 3280.50 -20.32 114.70 251.70 67.40 4 27 38 2680.5 -23.20 107.08
 79.56 0 43 51 3825.78 -20.33 154.82 251.71 67.41 1 47 37 3225.8 -23.22 147.20
 100.44 3 32 58 3280.50 -20.32 114.70 251.70 67.40 4 27 38 2680.5 -23.20 107.08
 110.00 6 44 20 2679.98 -32.09 73.37 255.84 77.53 7 29 0 2080.0 -33.47 64.41
 110.00 2 31 39 3474.30 -9.41 123.32 245.77 56.99 3 29 33 2874.3 -13.69 116.84

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.5547 TRA 3.2172 TC3-2.3090 BAU .6640 SGT 5974.9 SGR 407.3 SG3 838.7 ST 3449.0 SR 248.1 SS 2113.9
 RDE .1874 RRA -.2054 RC3 .1741 FAU .06309 RRT -.3950 RRF -.4019 RTF .9916 CRT .7143 CRS -.6845 CST -.9991
 FDE 3.9904 FRA 5.6114 FC3-2.5467 BSP 18990 SGB 5988.7 R23 .0094 R13 -.9916 LSA 4048.4 MSA 190.9 SSA 12.6
 BDE 2.5616 BRA 3.2237 BC3 2.3156 FSP -3065 SG1 5977.0 SG2 374.1 THA 178.45 EL1 3453.6 EL2 173.4 ALF 2.95

LAUNCH DATE DEC 1 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 565.004

RL 147.50 LAL -.00 LOL 68.87 VL 27.759 GAL 6.85 AZL 86.77 MCA 252.77 SMA 128.97 ECC .18591 INC 3.2273 V1 30.207
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.518 GAP 5.93 AZP 90.96 TAL 146.94 TAP 39.70 RCA 105.00 APO 152.95 V2 34.787
 RC 114.042 GL 19.09 GP 3.72 ZAL 40.87 ZAP 146.99 ETS 6.22 ZAE 126.65 ETE 176.06 ZAC 88.19 ETC 166.34 CLP-147.18

PLANETOCENTRIC CONIC

C3 22.497 VHL 4.743 DLA 29.96 RAL 22.35 RAD 6567.9 VEL 11.995 PTH 2.14 VHP 4.675 DPA -1.87 RAP 354.77 ECC 1.3702
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.77 0 48 34 3832.40 -19.99 155.16 253.26 67.20 1 52 26 3232.4 -22.90 147.57
 100.23 3 34 35 3296.98 -19.97 115.77 253.25 67.19 4 29 32 2697.0 -22.89 108.18
 79.77 0 48 34 3832.40 -19.99 155.16 253.26 67.20 1 52 26 3232.4 -22.90 147.57
 100.23 3 34 35 3296.98 -19.97 115.77 253.25 67.19 4 29 32 2697.0 -22.89 108.18
 110.00 6 48 28 2688.30 -31.96 73.98 257.53 77.18 7 33 16 2088.3 -33.40 65.05
 110.00 2 33 51 3489.07 -8.86 124.11 247.17 56.85 3 32 0 2889.1 -13.16 117.66

DIFFERENTIAL CORRECTIONS

TDE 2.6573 TRA 3.4187 TC3-2.2526 BAU .6792
 RDE .2116 RRA -.1943 RC3 .1598 FAU .05596
 FDE 3.7091 FRA 5.3193 FC3-2.1534 BSP 19526
 BOE 2.6658 BRA 3.4242 BC3 2.2583 FSP -2806

MID-COURSE EXECUTION ACCURACY

SGT 6131.4 SGR 402.1 SG3 769.2
 RRT -.3223 RRF -.3278 RTF .9912
 SGB 6144.5 R23 .0075 R13 -.9912
 SG1 6132.8 SG2 380.5 THA 178.78

ORBIT DETERMINATION ACCURACY

ST 3514.8 SR 268.2 SS 2020.9
 CRT .7467 CRS -.7184 CST -.9991
 LSA 4058.5 MSA 194.5 SSA 12.7
 EL1 3520.5 EL2 178.1 ALF 3.27

LAUNCH DATE DEC 1 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 570.955

RL 147.50 LAL -.00 LOL 68.87 VL 27.744 GAL 7.13 AZL 86.75 MCA 255.93 SMA 128.87 ECC .18967 INC 3.2538 V1 30.207
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.509 GAP 6.37 AZP 90.79 TAL 146.27 TAP 42.19 RCA 104.43 APO 153.31 V2 34.790
 RC 116.435 GL 18.74 GP 3.49 ZAL 40.16 ZAP 149.31 ETS 6.42 ZAE 125.50 ETE 176.28 ZAC 89.07 ETC 166.33 CLP-149.49

PLANETOCENTRIC CONIC

C3 23.663 VHL 4.865 DLA 29.88 RAL 23.18 RAD 6568.0 VEL 12.043 PTH 2.15 VHP 4.907 DPA -1.74 RAP 355.63 ECC 1.3894
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.06 0 54 2 3837.76 -19.61 155.38 254.88 67.00 1 57 59 3237.8 -22.55 147.83
 99.94 3 35 41 3316.26 -19.59 117.03 254.87 66.98 4 30 58 2716.3 -22.54 109.48
 100.00 3 44 46 3287.30 -20.33 115.21 255.20 67.60 4 39 33 2687.3 -23.19 107.58
 100.00 3 27 39 3341.95 -18.87 118.61 254.54 66.38 4 23 20 2742.0 -21.91 111.13
 110.00 6 53 4 2696.26 -31.84 74.57 259.30 76.85 7 38 0 2096.3 -33.32 65.66
 110.00 2 35 50 3505.75 -8.24 125.00 248.63 56.71 3 34 16 2905.8 -12.56 118.57

DIFFERENTIAL CORRECTIONS

TDE 2.7537 TRA 3.6240 TC3-2.1883 BAU .6938
 RDE .2354 RRA -.1835 RC3 .1464 FAU .04971
 FDE 3.4487 FRA 5.0512 FC3-1.8188 BSP 20074
 BOE 2.7637 BRA 3.6286 BC3 2.1932 FSP -2581

MID-COURSE EXECUTION ACCURACY

SGT 6267.7 SGR 399.0 SG3 705.7
 RRT -.2523 RRF -.2565 RTF .9907
 SGB 6280.4 R23 .0058 R13 -.9907
 SG1 6268.5 SG2 386.1 THA 179.08

ORBIT DETERMINATION ACCURACY

ST 3564.3 SR 287.1 SS 1930.7
 CRT .7703 CRS -.7432 CST -.9991
 LSA 4059.0 MSA 197.9 SSA 12.7
 EL1 3571.2 EL2 182.7 ALF 3.56

LAUNCH DATE DEC 1 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 576.870

RL 147.50 LAL -.00 LOL 68.87 VL 27.728 GAL 7.43 AZL 86.72 MCA 259.09 SMA 128.76 ECC .19375 INC 3.2795 V1 30.207
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.501 GAP 6.83 AZP 90.62 TAL 145.58 TAP 44.66 RCA 103.81 APO 153.70 V2 34.794
 RC 118.823 GL 18.35 GP 3.28 ZAL 39.42 ZAP 151.49 ETS 6.64 ZAE 124.47 ETE 176.46 ZAC 90.07 ETC 166.33 CLP-151.67

PLANETOCENTRIC CONIC

C3 24.962 VHL 4.996 DLA 29.76 RAL 24.03 RAD 6568.0 VEL 12.097 PTH 2.17 VHP 5.150 DPA -1.53 RAP 356.62 ECC 1.4108
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.43 1 0 16 3841.79 -19.19 155.50 256.57 66.80 2 4 18 3241.8 -22.16 147.97
 99.57 3 36 14 3338.45 -19.17 118.49 256.56 66.79 4 31 53 2738.5 -22.15 110.97
 100.00 4 2 52 3253.39 -21.19 113.06 257.45 68.41 4 57 5 2653.4 -23.94 105.34
 100.00 3 16 19 3402.08 -17.19 122.29 255.63 65.16 4 13 2 2802.1 -20.40 114.96
 110.00 6 58 4 2703.96 -31.72 75.14 261.16 76.54 7 43 8 2104.0 -33.25 66.25
 110.00 2 37 37 3524.28 -7.55 125.99 250.14 56.56 3 36 21 2924.3 -11.89 119.59

DIFFERENTIAL CORRECTIONS

TDE 2.8471 TRA 3.8376 TC3-2.1128 BAU .7065
 RDE .2588 RRA -.1728 RC3 .1336 FAU .04403
 FDE 3.2130 FRA 4.8108 FC3-1.5270 BSP 20568
 BOE 2.8588 BRA 3.8415 BC3 2.1170 FSP -2376

MID-COURSE EXECUTION ACCURACY

SGT 6389.0 SGR 397.6 SG3 648.3
 RRT -.1852 RRF -.1882 RTF .9903
 SGB 6401.3 R23 .0041 R13 -.9903
 SG1 6389.4 SG2 390.6 THA 179.34

ORBIT DETERMINATION ACCURACY

ST 3602.4 SR 304.6 SS 1846.3
 CRT .7879 CRS -.7618 CST -.9991
 LSA 4054.1 MSA 201.1 SSA 12.8
 EL1 3610.4 EL2 187.2 ALF 3.82

LAUNCH DATE DEC 1 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 582.748

RL 147.50 LAL -.00 LOL 68.87 VL 27.711 GAL 7.75 AZL 86.70 MCA 262.25 SMA 128.64 ECC .19820 INC 3.3047 V1 30.207
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.493 GAP 7.29 AZP 90.45 TAL 144.87 TAP 47.12 RCA 103.15 APO 154.14 V2 34.798
 RC 121.206 GL 17.94 GP 3.09 ZAL 38.66 ZAP 153.55 ETS 6.88 ZAE 123.55 ETE 176.63 ZAC 91.20 ETC 166.33 CLP-153.72

PLANETOCENTRIC CONIC

C3 26.410 VHL 5.139 DLA 29.63 RAL 24.90 RAD 6568.1 VEL 12.157 PTH 2.18 VHP 5.406 DPA -1.25 RAP 357.71 ECC 1.4346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.89 1 7 16 3844.44 -18.73 155.48 258.32 66.61 2 11 20 3244.4 -21.74 148.00
 99.11 3 36 11 3363.65 -18.72 120.15 258.32 66.60 4 32 15 2763.7 -21.72 112.67
 100.00 4 16 14 3235.63 -21.63 111.92 259.59 68.85 5 10 9 2635.6 -24.31 104.15
 100.00 3 9 55 3447.70 -15.87 125.03 256.96 64.33 4 7 23 2847.7 -19.19 117.81
 110.00 7 3 26 2711.51 -31.60 75.70 263.09 76.23 7 48 38 2111.5 -33.17 66.82
 110.00 2 39 11 3544.58 -6.78 127.06 251.69 56.42 3 38 16 2944.6 -11.15 120.69

DIFFERENTIAL CORRECTIONS

TDE 2.9385 TRA 4.0611 TC3-2.0272 BAU .7170
 RDE .2820 RRA -.1821 RC3 .1214 FAU .03883
 FDE 2.9994 FRA 4.5953 FC3-1.2729 BSP 21013
 BOE 2.9520 BRA 4.0644 BC3 2.0308 FSP -2188

MID-COURSE EXECUTION ACCURACY

SGT 6496.8 SGR 397.1 SG3 596.3
 RRT -.1213 RRF -.1231 RTF .9898
 SGB 6509.0 R23 .0026 R13 -.9898
 SG1 6497.0 SG2 394.2 THA 179.57

ORBIT DETERMINATION ACCURACY

ST 3630.4 SR 320.6 SS 1767.1
 CRT .8012 CRS -.7760 CST -.9991
 LSA 4045.1 MSA 204.2 SSA 12.8
 EL1 3639.5 EL2 191.4 ALF 4.06

LAUNCH DATE DEC 1 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL -.00 LOL 68.87 VL 27.694 GAL 8.10 AZL 86.67 MCA 263.42 SMA 128.52 ECC .20303 INC 3.3295 V1 30.207
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.485 GAP 7.77 AZP 90.27 TAL 144.14 TAP 49.56 RCA 102.43 APO 154.62 V2 34.803
 RC 123.581 GL 17.51 GP 2.92 ZAL 37.88 ZAP 155.49 ETS 7.15 ZAE 122.71 ETE 176.78 ZAC 92.42 ETC 166.33 CLP-155.66

PLANETOCENTRIC CONIC
 C3 28.025 VHL 5.294 DLA 29.48 RAL 25.79 RAD 6568.1 VEL 12.223 PTH 2.20 VHP 5.676 DPA -.91 RAP 358.90 ECC 1.4612
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.44 1 15 10 3845.27 -18.24 155.32 260.14 66.44 2 19 15 3245.3 -21.28 147.87
 98.56 3 35 23 3392.34 -18.23 122.05 260.14 66.42 4 31 56 2792.3 -21.26 114.60
 100.00 4 28 22 3222.78 -21.95 111.10 261.75 69.18 5 22 5 2622.8 -24.58 103.29
 100.00 3 4 52 3490.06 -14.60 127.54 258.38 63.62 4 3 2 2890.1 -18.03 120.42
 110.00 7 9 9 2719.01 -31.48 76.25 265.10 75.92 7 54 28 2119.0 -33.09 67.39
 110.00 2 40 35 3566.59 -5.95 128.23 253.30 56.28 3 40 2 2966.6 -10.34 121.89

MID-COURSE EXECUTION ACCURACY
 SGT 6596.7 SGR 397.3 SG3 549.8
 RRT -.0599 RRF -.0605 RTF .9894
 SGB 6608.6 R23 .0010 R13 -.9894
 SGI 6596.7 SGT 396.6 TMA 179.79

ORBIT DETERMINATION ACCURACY
 ST 3653.6 SR 335.1 SS 1695.6
 CRT .8115 CRS -.7872 CST -.9991
 LSA 4036.5 MSA 207.0 SSA 12.8
 EL1 3663.7 EL2 195.3 ALF 4.27

DIFFERENTIAL CORRECTIONS
 TOE 3.0326 TRA 4.2997 TC3-1.9279 BAU .7235
 ROE .3052 RRA -.1511 RC3 .1097 FAU .03386
 FDE 2.8106 FRA 4.4066 FC3-1.0461 B9P 21332
 BOE 3.0480 BRA 4.3024 BC3 1.9311 F8P -2008

LAUNCH DATE DEC 1 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL -.00 LOL 68.87 VL 27.677 GAL 8.48 AZL 86.65 MCA 268.58 SMA 128.40 ECC .20827 INC 3.3541 V1 30.207
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.477 GAP 8.27 AZP 90.08 TAL 143.40 TAP 51.98 RCA 101.66 APO 155.15 V2 34.808
 RC 125.948 GL 17.05 GP 2.77 ZAL 37.09 ZAP 157.34 ETS 7.46 ZAE 121.95 ETE 176.91 ZAC 93.74 ETC 166.34 CLP-157.50

PLANETOCENTRIC CONIC
 C3 29.830 VHL 5.462 DLA 29.31 RAL 26.69 RAD 6568.2 VEL 12.296 PTH 2.21 VHP 5.959 DPA -.50 RAP .16 ECC 1.4909
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.12 1 24 2 3843.95 -17.72 154.98 262.02 66.27 2 28 6 3244.0 -20.78 147.57
 97.88 3 33 43 3424.87 -17.70 124.22 262.02 66.26 4 30 48 2824.9 -20.76 116.80
 100.00 4 39 54 3212.79 -22.19 110.45 263.96 69.44 5 33 27 2612.8 -24.79 102.62
 100.00 3 0 32 3531.27 -13.34 129.95 259.87 63.00 3 59 23 2931.3 -16.86 122.92
 110.00 7 15 8 2726.54 -31.35 76.80 267.18 75.62 8 0 34 2126.5 -33.01 67.96
 110.00 2 41 47 3590.28 -5.05 129.47 254.95 56.15 3 41 38 2990.3 -9.47 123.16

MID-COURSE EXECUTION ACCURACY
 SGT 6680.2 SGR 398.0 SG3 507.1
 RRT -.0017 RRF -.0013 RTF .9889
 SGB 6692.1 R23 -.0004 R13 -.9889
 SGI 6680.2 SGT 398.0 TMA 179.99

ORBIT DETERMINATION ACCURACY
 ST 3663.6 SR 348.2 SS 1626.2
 CRT .8196 CRS -.7960 CST -.9992
 LSA 4017.9 MSA 209.5 SSA 12.8
 EL1 3674.7 EL2 198.8 ALF 4.47

DIFFERENTIAL CORRECTIONS
 TOE 3.1220 TRA 4.5464 TC3-1.8275 BAU .7299
 ROE .3284 RRA -.1394 RC3 .0987 FAU .02957
 FDE 2.6352 FRA 4.2329 FC3 -.8581 B9P 21707
 BOE 3.1392 BRA 4.5485 BC3 1.8302 F8P -1855

LAUNCH DATE DEC 1 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL -.00 LOL 68.87 VL 27.659 GAL 8.89 AZL 86.62 MCA 271.75 SMA 128.28 ECC .21397 INC 3.3787 V1 30.207
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.469 GAP 8.79 AZP 89.90 TAL 142.65 TAP 54.40 RCA 100.83 APO 155.73 V2 34.815
 RC 128.306 GL 16.58 GP 2.64 ZAL 36.29 ZAP 159.10 ETS 7.80 ZAE 121.26 ETE 177.04 ZAC 95.13 ETC 166.33 CLP-159.26

PLANETOCENTRIC CONIC
 C3 31.852 VHL 5.644 DLA 29.11 RAL 27.60 RAD 6568.3 VEL 12.378 PTH 2.23 VHP 6.257 DPA -.05 RAP 1.50 ECC 1.5242
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.93 1 34 9 3839.57 -17.16 154.40 263.96 66.11 2 38 8 3239.6 -20.24 147.02
 97.07 3 30 51 3462.19 -17.14 126.71 263.95 66.10 4 28 34 2862.2 -20.23 119.34
 100.00 4 51 4 3204.89 -22.37 109.94 266.21 69.64 5 44 29 2604.9 -24.94 102.09
 100.00 2 56 38 3572.11 -12.07 132.31 261.43 62.44 3 56 10 2972.1 -15.66 125.36
 110.00 7 21 22 2734.19 -31.22 77.35 269.34 75.32 8 6 56 2134.2 -32.92 68.54
 110.00 2 42 49 3615.57 -4.09 130.80 256.64 56.03 3 43 5 3015.6 -8.53 124.52

MID-COURSE EXECUTION ACCURACY
 SGT 6754.1 SGR 398.9 SG3 468.5
 RRT .0542 RRF .0554 RTF .9885
 SGB 6765.8 R23 .0017 R13 .9885
 SGI 6754.1 SGT 398.3 TMA .18

ORBIT DETERMINATION ACCURACY
 ST 3666.8 SR 359.7 SS 1561.8
 CRT .8261 CRS -.8032 CST -.9992
 LSA 3996.2 MSA 211.7 SSA 12.7
 EL1 3678.9 EL2 202.1 ALF 4.65

DIFFERENTIAL CORRECTIONS
 TOE 3.2120 TRA 4.8077 TC3-1.7207 BAU .7337
 ROE .3516 RRA -.1270 RC3 .0882 FAU .02561
 FDE 2.4769 FRA 4.0783 FC3 -.6961 B9P 22049
 BOE 3.2312 BRA 4.8094 BC3 1.7230 F8P -1716

LAUNCH DATE DEC 1 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL -.00 LOL 68.87 VL 27.640 GAL 9.33 AZL 86.60 MCA 274.91 SMA 128.15 ECC .22016 INC 3.4033 V1 30.207
 RP 108.83 LAP -3.39 LOP 343.79 VP 37.462 GAP 9.34 AZP 89.71 TAL 141.90 TAP 56.82 RCA 99.94 APO 156.37 V2 34.821
 RC 130.653 GL 16.09 GP 2.51 ZAL 35.48 ZAP 160.79 ETS 8.20 ZAE 120.63 ETE 177.16 ZAC 96.59 ETC 166.32 CLP-160.95

PLANETOCENTRIC CONIC
 C3 34.121 VHL 5.841 DLA 28.90 RAL 28.52 RAD 6568.3 VEL 12.470 PTH 2.26 VHP 6.573 DPA .45 RAP 2.90 ECC 1.5616
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.94 1 45 57 3830.67 -16.56 153.47 265.95 65.97 2 49 47 3230.7 -19.67 146.13
 96.06 3 26 21 3505.78 -16.55 129.65 265.94 65.96 4 24 47 2905.8 -19.66 122.31
 100.00 5 1 57 3198.70 -22.52 109.54 268.51 69.81 5 55 16 2598.7 -25.07 101.67
 100.00 2 53 2 3612.99 -10.77 134.65 263.03 61.95 3 53 15 3013.0 -14.44 127.78
 110.00 7 27 48 2742.02 -31.08 77.32 271.55 75.00 8 13 30 2142.0 -32.83 69.14
 110.00 2 43 40 3642.43 -3.07 132.21 258.37 55.94 3 44 23 3042.4 -7.52 125.95

MID-COURSE EXECUTION ACCURACY
 SGT 6818.9 SGR 399.9 SG3 433.4
 RRT .1078 RRF .1097 RTF .9882
 SGB 6830.6 R23 .0028 R13 .9882
 SGI 6819.0 SGT 397.5 TMA .36

ORBIT DETERMINATION ACCURACY
 ST 3663.8 SR 369.8 SS 1502.3
 CRT .8313 CRS -.8091 CST -.9992
 LSA 3971.3 MSA 213.6 SSA 12.6
 EL1 3676.7 EL2 204.9 ALF 4.81

DIFFERENTIAL CORRECTIONS
 TOE 3.3033 TRA 5.0855 TC3-1.6086 BAU .7347
 ROE .3750 RRA -.1137 RC3 .0782 FAU .02195
 FDE 2.3343 FRA 3.9411 FC3 -.5570 B9P 22341
 BOE 3.3245 BRA 5.0867 BC3 1.6106 F8P -1587

LAUNCH DATE DEC 2 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 10 1969

HELIOCENTRIC CONIC

DISTANCE 128.758

RL 147.47 LAL -0.00 LOL 69.89 VL 15.742 GAL 29.81 AZL 87.17 MCA 35.28 SMA 85.51 ECC .80151 INC 2.8284 V1 30.211
 RP 107.55 LAP 1.63 LOP 105.13 VP 30.264 GAP -51.77 AZP 87.69 TAL 171.48 TAP 206.75 RCA 16.97 APO 154.05 V2 35.235
 RC 87.555 GL 2.09 GP -.43 ZAL 63.98 ZAP 34.89 ETS 177.87 ZAE 132.47 ETE 185.92 ZAC 56.03 ETC 160.95 CLP 34.89

PLANETOCENTRIC CONIC

C3 340.417 VHL 18.450 DLA 4.27 RAL 4.60 RAD 6571.9 VEL 21.488 PTH 3.21 VHP 28.856 DPA -18.11 RAP 323.57 ECC 6.6024
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 2 2935.95 -28.24 91.76 271.20 87.83 7 12 58 2335.9 -28.24 83.10
 90.00 19 25 41 5314.43 27.40 241.38 266.71 82.55 20 54 15 4714.4 26.08 232.96
 100.00 7 47 23 2667.11 -29.83 72.06 271.27 87.94 8 31 50 2067.1 -29.79 63.25
 100.00 20 45 1 5058.50 28.97 222.33 266.47 82.30 22 9 19 4458.5 27.60 213.79
 110.00 9 0 14 2439.14 -34.14 54.92 271.44 88.23 9 40 53 1839.1 -34.01 45.68
 110.00 21 48 40 4859.24 33.25 206.50 265.76 81.55 23 9 39 4259.2 31.72 197.60

DIFFERENTIAL CORRECTIONS

TDE -.8981 TRA-2.1450 TC3 -.1102 BAU .5033
 RDE-1.2997 RRA .6695 RC3 -.0091 FAU .01116
 FDE .3809 FRA .7409 FC3 -.0284 BSP 1998
 BOE 1.5798 BRA 2.2470 BC3 .1106 FSP -49

MID-COURSE EXECUTION ACCURACY

SGT 830.3 SGR 455.5 SG3 24.2
 RRT -.0344 RRF .0305 RTF -.6224
 SGB .947.0 R23 .0001 R13 .6224
 SG1 830.5 SG2 455.1 THA 178.46

ORBIT DETERMINATION ACCURACY

ST 343.6 SR 408.4 SS 341.8
 CRT .7128 CRS .7753 CST .9939
 LSA 593.0 MSA 223.4 SSA 14.0
 EL1 495.4 EL2 198.7 ALF 51.84

LAUNCH DATE DEC 2 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 134.203

RL 147.47 LAL -0.00 LOL 69.89 VL 16.534 GAL 28.38 AZL 87.11 MCA 38.52 SMA 86.94 ECC .77536 INC 2.8889 V1 30.211
 RP 107.53 LAP 1.80 LOP 108.37 VP 30.690 GAP -49.46 AZP 87.74 TAL 170.57 TAP 209.09 RCA 19.53 APO 154.35 V2 35.240
 RC 85.353 GL 2.38 GP -.44 ZAL 62.63 ZAP 33.36 ETS 177.91 ZAE 132.40 ETE 186.31 ZAC 57.67 ETC 161.38 CLP 33.36

PLANETOCENTRIC CONIC

C3 312.534 VHL 17.679 DLA 5.07 RAL 5.74 RAD 6571.8 VEL 20.829 PTH 3.18 VHP 27.813 DPA -17.60 RAP 325.29 ECC 6.1435
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 22 34 2951.35 -28.20 92.89 272.02 87.27 7 11 45 2351.3 -28.28 84.22
 90.00 19 36 15 5279.75 27.07 238.90 266.73 81.34 21 4 15 4679.7 25.59 230.54
 100.00 7 46 18 2681.27 -29.79 73.11 272.11 87.39 8 30 59 2081.3 -29.83 64.31
 100.00 20 55 12 5025.06 28.64 219.90 266.45 81.06 22 18 57 4425.1 27.11 211.43
 110.00 9 0 1 2450.55 -34.12 55.81 272.32 87.70 9 40 52 1850.5 -34.06 46.57
 110.00 21 57 58 4828.55 32.91 204.16 265.63 80.21 23 18 27 4228.5 31.21 195.35

DIFFERENTIAL CORRECTIONS

TDE -.9028 TRA-2.1650 TC3 -.1176 BAU .4934
 RDE-1.2603 RRA .6484 RC3 -.0104 FAU .01120
 FDE .3966 FRA .7683 FC3 -.0310 BSP 2139
 BOE 1.5503 BRA 2.2600 BC3 .1181 FSP -54

MID-COURSE EXECUTION ACCURACY

SGT 868.8 SGR 461.2 SG3 26.1
 RRT -.0345 RRF .0307 RTF -.6412
 SGB 983.6 R23 .0001 R13 .6412
 SG1 869.0 SG2 460.8 THA 178.54

ORBIT DETERMINATION ACCURACY

ST 361.1 SR 413.3 SS 357.7
 CRT .7111 CRS .7761 CST .9937
 LSA 613.5 MSA 229.6 SSA 14.2
 EL1 508.6 EL2 206.3 ALF 50.39

LAUNCH DATE DEC 2 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 139.773

RL 147.47 LAL -0.00 LOL 69.89 VL 17.278 GAL 27.07 AZL 87.06 MCA 41.77 SMA 88.40 ECC .74912 INC 2.9414 V1 30.211
 RP 107.52 LAP 1.96 LOP 111.61 VP 31.102 GAP -47.27 AZP 87.81 TAL 169.66 TAP 211.43 RCA 22.18 APO 154.62 V2 35.245
 RC 83.158 GL 2.67 GP -.46 ZAL 61.33 ZAP 31.85 ETS 177.94 ZAE 132.39 ETE 186.72 ZAC 59.33 ETC 161.79 CLP 31.85

PLANETOCENTRIC CONIC

C3 287.092 VHL 16.944 DLA 5.86 RAL 6.84 RAD 6571.7 VEL 20.209 PTH 3.15 VHP 26.805 DPA -17.08 RAP 327.02 ECC 5.7248
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 20 56 2966.01 -28.14 93.96 272.74 86.74 7 10 22 2366.0 -28.30 85.29
 90.00 19 46 36 5244.76 26.68 236.41 266.69 80.15 21 14 1 4644.8 25.05 228.12
 100.00 7 45 3 2694.69 -29.74 74.10 272.85 86.87 8 29 58 2094.7 -29.86 65.30
 100.00 21 5 10 4991.31 28.26 217.46 266.37 79.83 22 28 21 4391.3 26.57 209.07
 110.00 8 59 39 2461.22 -34.08 56.64 273.11 87.21 9 40 40 1861.2 -34.09 47.40
 110.00 22 7 3 4797.55 32.53 201.82 265.44 78.87 23 27 1 4197.5 30.66 193.11

DIFFERENTIAL CORRECTIONS

TDE -.9083 TRA-2.1857 TC3 -.1253 BAU .4832
 RDE-1.2207 RRA .6268 RC3 -.0118 FAU .01124
 FDE .4126 FRA .7961 FC3 -.0339 BSP 2274
 BOE 1.5216 BRA 2.2738 BC3 .1259 FSP -59

MID-COURSE EXECUTION ACCURACY

SGT 909.3 SGR 466.3 SG3 28.1
 RRT -.0343 RRF .0307 RTF -.6595
 SGB 1021.8 R23 -.0000 R13 .6595
 SG1 909.4 SG2 465.9 THA 178.63

ORBIT DETERMINATION ACCURACY

ST 379.7 SR 417.7 SS 373.9
 CRT .7096 CRS .7770 CST .9934
 LSA 634.7 MSA 235.4 SSA 14.5
 EL1 522.4 EL2 213.9 ALF 48.83

LAUNCH DATE DEC 2 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 145.460

RL 147.47 LAL -0.00 LOL 69.89 VL 17.978 GAL 25.84 AZL 87.01 MCA 45.01 SMA 89.87 ECC .72296 INC 2.9876 V1 30.211
 RP 107.51 LAP 2.11 LOP 114.86 VP 31.501 GAP -45.20 AZP 87.89 TAL 168.76 TAP 213.77 RCA 24.90 APO 154.85 V2 35.249
 RC 80.975 GL 2.98 GP -.47 ZAL 60.07 ZAP 30.36 ETS 177.97 ZAE 132.46 ETE 187.16 ZAC 61.02 ETC 162.19 CLP 30.36

PLANETOCENTRIC CONIC

C3 263.844 VHL 16.243 DLA 6.64 RAL 7.88 RAD 6571.5 VEL 19.625 PTH 3.12 VHP 25.830 DPA -16.54 RAP 328.77 ECC 5.3422
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 8 2979.94 -28.09 94.97 273.37 86.23 7 8 48 2379.9 -28.31 86.31
 90.00 19 56 44 5209.41 26.25 233.91 266.58 78.97 21 23 33 4609.4 24.46 225.70
 100.00 7 43 39 2707.38 -29.69 75.04 273.49 86.37 8 28 46 2107.4 -29.88 66.24
 100.00 21 14 54 4957.21 27.83 215.02 266.23 78.61 22 37 32 4357.2 25.97 206.71
 110.00 8 59 8 2471.15 -34.05 57.42 273.79 86.75 9 40 19 1871.1 -34.12 48.17
 110.00 22 15 55 4766.21 32.10 199.48 265.19 77.55 23 35 21 4166.2 30.05 190.87

DIFFERENTIAL CORRECTIONS

TDE -.9130 TRA-2.2053 TC3 -.1331 BAU .4719
 RDE-1.1810 RRA .6046 RC3 -.0133 FAU .01131
 FDE .4289 FRA .8242 FC3 -.0371 BSP 2433
 BOE 1.4928 BRA 2.2867 BC3 .1338 FSP -65

MID-COURSE EXECUTION ACCURACY

SGT 950.8 SGR 470.7 SG3 30.3
 RRT -.0341 RRF .0305 RTF -.6770
 SGB 1060.9 R23 -.0000 R13 .6771
 SG1 951.0 SG2 470.3 THA 178.72

ORBIT DETERMINATION ACCURACY

ST 398.9 SR 421.5 SS 390.5
 CRT .7081 CRS .7778 CST .9931
 LSA 656.5 MSA 241.0 SSA 14.7
 EL1 536.5 EL2 221.3 ALF 47.23

LAUNCH DATE DEC 2 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 151.258

RL 147.47 LAL -.00 LOL 69.89 VL 18.635 GAL 24.69 AZL 86.97 HCA 48.26 SMA 91.36 ECC .69700 INC 3.0289 V1 30.211
 RP 107.50 LAP 2.26 LOP 118.10 VP 31.885 GAP -43.24 AZP 87.98 TAL 167.87 TAP 216.13 RCA 27.68 APO 155.05 V2 35.253
 RC 78.802 GL 3.29 GP -.48 ZAL 56.87 ZAP 28.90 ETS 178.00 ZAE 132.61 ETE 187.61 ZAC 62.73 ETC 162.57 CLP 28.89

PLANETOCENTRIC CONIC

C3 242.579 VHL 15.575 DLA 7.41 RAL 8.88 RAD 6571.4 VEL 19.076 PTH 3.08 VHP 24.887 DPA -15.97 RAP 330.53 ECC 4.9922
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 17 11 2993.17 -28.02 95.93 273.89 85.75 7 7 4 2393.2 -28.32 87.28
 90.00 20 6 39 5173.67 25.76 231.41 266.42 77.81 21 32 53 4573.7 23.82 223.28
 100.00 7 42 4 2719.35 -29.64 75.93 274.03 85.91 8 27 24 2119.3 -29.89 67.13
 100.00 21 24 26 4922.73 27.34 212.57 266.03 77.41 22 46 29 4322.7 25.33 204.35
 110.00 8 58 27 2480.35 -34.01 58.13 274.38 86.33 9 39 47 1880.4 -34.14 48.89
 110.00 22 24 34 4734.48 31.61 197.14 264.88 76.24 23 43 28 4134.5 29.39 188.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9202 TRA-2.2271 TC3 -.1414 BAU .4611 SGT 995.6 SGR 474.4 SG3 32.7 ST 419.8 SR 424.8 SS 407.6
 RDE -1.1412 RRA .5821 RC3 -.0150 FAU .01137 RRT -.0331 RRF .0301 RTF -.6940 CRT .7071 CRS .7787 CST .9929
 FDE .4459 FRA .8531 FC3 -.0406 BSP 2544 SGB 1102.8 R23 -.0004 R13 .6940 LSA 679.7 MSA 246.2 SSA 14.9
 BDE 1.4860 BRA 2.3019 BC3 .1422 FSP -71 SGI 995.7 SG2 474.1 THA 178.83 EL1 551.7 EL2 228.5 ALF 45.48

LAUNCH DATE DEC 2 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 157.160

RL 147.47 LAL -.00 LOL 69.89 VL 19.254 GAL 23.61 AZL 86.93 HCA 51.50 SMA 92.86 ECC .67136 INC 3.0663 V1 30.211
 RP 107.49 LAP 2.40 LOP 121.35 VP 32.253 GAP -41.37 AZP 88.09 TAL 166.99 TAP 218.49 RCA 30.52 APO 155.21 V2 35.255
 RC 76.644 GL 3.62 GP -.50 ZAL 57.72 ZAP 27.45 ETS 178.02 ZAE 132.83 ETE 188.09 ZAC 64.46 ETC 162.92 CLP 27.45

PLANETOCENTRIC CONIC

C3 223.116 VHL 14.937 DLA 8.17 RAL 9.83 RAD 6571.3 VEL 18.559 PTH 3.05 VHP 23.975 DPA -15.39 RAP 332.30 ECC 4.6719
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 15 2 3005.73 -27.96 96.85 274.32 85.30 7 5 8 2405.7 -28.31 88.20
 90.00 20 16 23 5137.48 25.21 228.90 266.19 76.67 21 42 1 4537.5 23.13 220.85
 100.00 7 40 20 2730.64 -29.58 76.76 274.47 85.48 8 25 50 2130.6 -29.89 67.97
 100.00 21 33 47 4887.81 26.80 210.12 265.77 76.23 22 55 14 4287.8 24.64 201.98
 110.00 8 57 35 2488.86 -33.97 58.79 274.86 85.94 9 39 4 1888.9 -34.16 49.55
 110.00 22 33 0 4702.35 31.06 194.79 264.52 74.95 23 51 23 4102.3 28.69 186.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9458 TRA-2.2666 TC3 -.1531 BAU .4596 SGT 1054.7 SGR 477.4 SG3 35.3 ST 448.6 SR 427.4 SS 426.9
 RDE -1.1012 RRA .5594 RC3 -.0169 FAU .01136 RRT -.0280 RRF .0283 RTF -.7097 CRT .7100 CRS .7803 CST .9932
 FDE .4655 FRA .8847 FC3 -.0441 BSP 2225 SGB 1157.7 R23 -.0033 R13 .7098 LSA 709.3 MSA 250.7 SSA 15.2
 BDE 1.4516 BRA 2.3346 BC3 .1541 FSP -73 SGI 1054.8 SG2 477.2 THA 179.09 EL1 573.1 EL2 235.6 ALF 43.05

LAUNCH DATE DEC 2 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 163.152

RL 147.47 LAL -.00 LOL 69.89 VL 19.835 GAL 22.58 AZL 86.90 HCA 54.75 SMA 94.36 ECC .64611 INC 3.1004 V1 30.211
 RP 107.48 LAP 2.53 LOP 124.60 VP 32.605 GAP -39.58 AZP 88.21 TAL 166.12 TAP 220.87 RCA 33.39 APO 155.33 V2 35.257
 RC 74.503 GL 3.96 GP -.51 ZAL 56.62 ZAP 26.02 ETS 178.03 ZAE 133.14 ETE 188.59 ZAC 66.22 ETC 163.27 CLP 26.02

PLANETOCENTRIC CONIC

C3 205.240 VHL 14.326 DLA 8.92 RAL 10.73 RAD 6571.1 VEL 18.071 PTH 3.01 VHP 23.089 DPA -14.78 RAP 334.07 ECC 4.3777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 42 3017.58 -27.89 97.71 274.65 84.87 7 2 59 2417.6 -28.31 89.07
 90.00 20 25 55 5100.80 24.61 226.38 265.91 75.54 21 50 55 4500.8 22.39 218.42
 100.00 7 38 23 2741.20 -29.52 77.54 274.81 85.07 8 24 5 2141.2 -29.89 68.76
 100.00 21 42 54 4852.42 26.20 207.66 265.45 75.07 23 3 47 4252.4 23.89 199.62
 110.00 8 56 33 2496.62 -33.93 59.40 275.23 85.59 9 38 9 1896.6 -34.17 50.16
 110.00 22 41 14 4669.76 30.46 192.44 264.10 73.68 23 59 4 4069.8 27.93 184.17

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8952 TRA-2.2289 TC3 -.1508 BAU .4170 SGT 1062.6 SGR 480.0 SG3 37.8 ST 449.0 SR 429.7 SS 439.4
 RDE -1.0620 RRA .5354 RC3 -.0190 FAU .01178 RRT -.0392 RRF .0308 RTF -.7273 CRT .6970 CRS .7796 CST .9913
 FDE .4766 FRA .9080 FC3 -.0497 BSP 3735 SGB 1166.0 R23 .0050 R13 .7273 LSA 716.6 MSA 256.1 SSA 15.0
 BDE 1.3890 BRA 2.2924 BC3 .1520 FSP -94 SGI 1062.8 SG2 479.5 THA 178.73 EL1 572.6 EL2 241.6 ALF 43.19

LAUNCH DATE DEC 2 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 169.241

RL 147.47 LAL -.00 LOL 69.89 VL 20.382 GAL 21.60 AZL 86.87 HCA 58.00 SMA 95.86 ECC .62138 INC 3.1319 V1 30.211
 RP 107.48 LAP 2.66 LOP 127.85 VP 32.942 GAP -37.88 AZP 88.34 TAL 165.27 TAP 223.27 RCA 36.30 APO 155.43 V2 35.258
 RC 72.381 GL 4.32 GP -.53 ZAL 55.57 ZAP 24.61 ETS 178.02 ZAE 133.53 ETE 189.13 ZAC 67.99 ETC 163.59 CLP 24.61

PLANETOCENTRIC CONIC

C3 188.888 VHL 13.744 DLA 9.67 RAL 11.59 RAD 6571.0 VEL 17.613 PTH 2.98 VHP 22.232 DPA -14.16 RAP 335.86 ECC 4.1086
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 10 10 3028.88 -27.82 98.53 274.88 84.47 7 0 39 2428.9 -28.29 89.89
 90.00 20 35 17 5063.59 23.96 223.85 265.58 74.44 21 59 41 4463.6 21.59 215.98
 100.00 7 36 16 2751.18 -29.46 78.28 275.05 84.69 8 22 7 2151.2 -29.88 69.50
 100.00 21 51 52 4816.52 25.55 205.19 265.08 73.93 23 12 9 4216.5 23.10 197.25
 110.00 8 55 20 2503.76 -33.89 59.95 275.51 85.26 9 37 4 1903.8 -34.18 50.72
 110.00 22 49 18 4636.70 29.81 190.09 263.63 72.43 24 6 34 4036.7 27.12 181.94

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9256 TRA-2.2716 TC3 -.1637 BAU .4169 SGT 1128.9 SGR 481.6 SG3 40.9 ST 481.8 SR 431.1 SS 460.2
 RDE -1.0221 RRA .5124 RC3 -.0212 FAU .01178 RRT -.0323 RRF .0283 RTF -.7414 CRT .7016 CRS .7814 CST .9918
 FDE .4980 FRA .9415 FC3 -.0540 BSP 3312 SGB 1227.3 R23 .0009 R13 .7414 LSA 749.7 MSA 259.6 SSA 15.3
 BDE 1.3790 BRA 2.3287 BC3 .1651 FSP -96 SGI 1129.0 SG2 481.3 THA 179.04 EL1 597.1 EL2 247.8 ALF 40.48

LAUNCH DATE DEC 2 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 175.412

RL 147.47 LAL -1.00 LOL 69.89 VL 20.896 GAL 20.67 AZL 86.84 HCA 61.25 SMA 97.35 ECC 59719 INC 3.1612 V1 30.211
 RP 107.48 LAP 2.77 LOP 131.10 VP 33.263 GAP -36.25 AZP 88.48 TAL 164.43 TAP 225.68 RCA 39.22 APO 155.40 V2 35.259
 RC 70.281 GL 4.69 GP -1.55 ZAL 54.57 ZAP 23.22 ETS 178.01 ZAE 134.01 ETE 189.69 ZAC 69.78 ETC 163.90 CLP 23.21

PLANETOCENTRIC CONIC

C3 173.874 VHL 13.186 DLA 10.41 RAL 12.40 RAD 6570.9 VEL 17.181 PTH 2.94 VHP 21.401 DPA -13.53 RAP 337.65 ECC 3.8615
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 25 3039.57 -27.74 99.30 275.01 84.09 6 58 5 2439.6 -28.27 90.67
 90.00 20 44 29 5025.81 23.24 221.31 265.19 73.36 22 8 15 4425.8 20.74 213.53
 100.00 7 33 56 2760.54 -29.40 78.97 275.20 84.33 8 19 57 2160.5 -29.87 70.20
 100.00 22 0 40 4780.07 24.84 202.72 264.66 72.81 23 20 20 4180.1 22.25 194.87
 110.00 8 53 55 2510.24 -33.86 60.45 275.69 84.97 9 35 46 1910.2 -34.18 51.22
 110.00 22 57 10 4603.14 29.09 187.74 263.11 71.21 24 13 53 4003.1 26.25 179.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9313 TRA-2.2882 TC3 -.1718 BAU .4032 SGT 1179.4 SGR 482.5 SG3 44.0 ST 505.9 SR 431.9 SS 479.1
 RDE -.9826 RRA .4889 RC3 -.0236 FAU .01194 RRT -.0306 RRF .0270 RTF -.7558 CRT .7010 CRS .7826 CST .9915
 FDE .5172 FRA .0729 FC3 -.0594 BSP 3492 SGB 1274.3 R23 .0008 R13 .7558 LSA 776.2 MSA 263.0 SSA 15.5
 BDE 1.3538 BRA 2.3399 BC3 .1734 FSP -105 SGI 1179.5 SG2 482.2 THA 179.14 EL1 615.0 EL2 253.3 ALF 38.62

LAUNCH DATE DEC 2 1968

FLIGHT TIME 88.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 181.662

RL 147.47 LAL -1.00 LOL 69.89 VL 21.379 GAL 19.79 AZL 86.81 HCA 64.50 SMA 98.83 ECC .57361 INC 3.1887 V1 30.211
 RP 107.48 LAP 2.88 LOP 134.35 VP 33.568 GAP -34.69 AZP 88.63 TAL 163.62 TAP 228.11 RCA 42.14 APO 155.53 V2 35.259
 RC 88.209 GL 5.07 GP -.57 ZAL 53.62 ZAP 21.83 ETS 177.97 ZAE 134.58 ETE 190.30 ZAC 71.58 ETC 164.19 CLP 21.83

PLANETOCENTRIC CONIC

C3 180.095 VHL 12.653 DLA 11.14 RAL 13.16 RAD 6570.7 VEL 18.776 PTH 2.90 VHP 20.594 DPA -12.87 RAP 339.44 ECC 3.6348
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 27 3049.74 -27.67 100.04 275.04 83.73 6 55 16 2449.7 -28.25 91.42
 90.00 20 53 33 4987.42 22.47 218.76 264.75 72.30 22 16 40 4387.4 19.84 211.08
 100.00 7 31 23 2789.34 -29.34 79.82 275.24 83.99 8 17 32 2169.3 -29.86 70.85
 100.00 22 9 17 4743.05 24.07 200.23 264.16 71.71 23 28 21 4143.1 21.34 192.49
 110.00 8 52 19 2518.11 -33.82 60.91 275.76 84.70 9 34 15 1916.1 -34.18 51.68
 110.00 23 4 51 4589.05 28.32 185.39 262.54 70.01 24 21 0 3969.1 25.34 177.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9378 TRA-2.3042 TC3 -.1800 BAU .3894 SGT 1232.4 SGR 482.7 SG3 47.5 ST 531.3 SR 432.0 SS 498.8
 RDE -.9433 RRA .4654 RC3 -.0282 FAU .01212 RRT -.0283 RRF .0233 RTF -.7696 CRT .7008 CRS .7840 CST .9913
 FDE .5372 FRA 1.0052 FC3 -.0655 BSP 3660 SGB 1323.6 R23 .0004 R13 .7696 LSA 804.2 MSA 265.9 SSA 15.6
 BDE 1.3301 BRA 2.3508 BC3 .1819 FSP -114 SGI 1232.5 SG2 482.4 THA 179.25 EL1 634.3 EL2 258.1 ALF 36.72

LAUNCH DATE DEC 2 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 187.983

RL 147.47 LAL -1.00 LOL 69.89 VL 21.833 GAL 18.94 AZL 86.79 HCA 67.74 SMA 100.30 ECC .55068 INC 3.2148 V1 30.211
 RP 107.48 LAP 2.98 LOP 137.60 VP 33.858 GAP -33.19 AZP 88.78 TAL 162.82 TAP 230.56 RCA 45.07 APO 155.54 V2 35.257
 RC 86.167 GL 5.47 GP -.60 ZAL 52.72 ZAP 20.46 ETS 177.91 ZAE 135.26 ETE 190.94 ZAC 73.40 ETC 164.47 CLP 20.46

PLANETOCENTRIC CONIC

C3 147.443 VHL 12.143 DLA 11.87 RAL 13.88 RAD 6570.6 VEL 16.394 PTH 2.86 VHP 19.812 DPA -12.21 RAP 341.24 ECC 3.4266
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 14 3059.44 -27.60 100.74 274.97 83.38 6 52 13 2459.4 -28.22 92.13
 90.00 21 2 28 4948.38 21.64 216.20 264.26 71.28 22 24 56 4348.4 18.89 208.61
 100.00 7 28 36 2777.64 -29.28 80.23 275.19 83.68 8 14 54 2177.6 -29.84 71.47
 100.00 22 17 46 4705.42 23.24 197.74 263.66 70.65 23 36 12 4105.4 20.39 190.11
 110.00 8 50 30 2521.40 -33.79 61.32 275.74 84.46 9 32 31 1921.4 -34.18 52.10
 110.00 23 12 23 4534.42 27.49 183.03 261.93 68.84 24 27 57 3934.4 24.37 175.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9448 TRA-2.3192 TC3 -.1882 BAU .3754 SGT 1287.7 SGR 482.1 SG3 51.2 ST 558.1 SR 431.4 SS 519.1
 RDE -.9042 RRA .4419 RC3 -.0290 FAU .01232 RRT -.0257 RRF .0234 RTF -.7826 CRT .7010 CRS .7855 CST .9911
 FDE .5582 FRA 1.0385 FC3 -.0723 BSP 3823 SGB 1375.0 R23 .0000 R13 .7826 LSA 833.6 MSA 268.2 SSA 15.8
 BDE 1.3077 BRA 2.3610 BC3 .1904 FSP -124 SGI 1287.8 SG2 481.9 THA 179.36 EL1 654.9 EL2 262.2 ALF 34.82

LAUNCH DATE DEC 2 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 194.371

RL 147.47 LAL -1.00 LOL 69.89 VL 22.260 GAL 18.13 AZL 86.76 HCA 70.99 SMA 101.75 ECC .52844 INC 3.2397 V1 30.211
 RP 107.49 LAP 3.06 LOP 140.85 VP 34.133 GAP -31.75 AZP 88.94 TAL 162.05 TAP 233.04 RCA 47.98 APO 155.52 V2 35.256
 RC 84.181 GL 5.89 GP -.62 ZAL 51.87 ZAP 19.10 ETS 177.83 ZAE 136.03 ETE 191.63 ZAC 75.23 ETC 164.73 CLP 19.09

PLANETOCENTRIC CONIC

C3 133.832 VHL 11.655 DLA 12.60 RAL 14.54 RAD 6570.5 VEL 16.036 PTH 2.83 VHP 19.053 DPA -11.53 RAP 343.04 ECC 3.2354
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 45 3088.73 -27.52 101.40 274.81 83.05 6 48 54 2468.7 -28.20 92.80
 90.00 21 11 16 4908.67 20.75 213.63 263.73 70.29 22 33 4 4308.7 17.88 206.14
 100.00 7 25 35 2785.47 -29.22 80.80 275.04 83.38 8 12 1 2185.5 -29.83 72.05
 100.00 22 26 7 4867.16 22.36 195.25 263.10 69.62 23 43 54 4067.2 19.38 187.71
 110.00 8 48 27 2526.17 -33.75 61.69 275.62 84.24 9 30 33 1926.2 -34.18 52.47
 110.00 23 19 44 4499.23 26.61 180.68 261.27 67.70 24 34 44 3899.2 23.35 173.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9496 TRA-2.3302 TC3 -.1956 BAU .3599 SGT 1343.0 SGR 480.7 SG3 55.2 ST 584.9 SR 430.2 SS 540.1
 RDE -.8655 RRA .4186 RC3 -.0320 FAU .01257 RRT -.0231 RRF .0212 RTF -.7952 CRT .7010 CRS .7870 CST .9908
 FDE .5801 FRA 1.0726 FC3 -.0801 BSP 4047 SGB 1426.4 R23 -.0001 R13 .7952 LSA 863.6 MSA 270.0 SSA 15.9
 BDE 1.2849 BRA 2.3675 BC3 .1982 FSP -136 SGI 1343.0 SG2 480.6 THA 179.46 EL1 675.8 EL2 265.5 ALF 33.00

LAUNCH DATE DEC 2 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -0.00 LOL 69.89 VL 22.661 GAL 17.36 AZL 86.74 HCA 74.24 SMA 103.17 ECC .50692 INC 3.2637 V1 30.211
 RP 107.50 LAP 3.14 LOP 144.10 VP 34.393 GAP -30.37 AZP 89.11 TAL 161.30 TAP 235.54 RCA 50.87 APO 155.47 V2 35.253
 RC 62.196 GL 6.32 GP -.65 ZAL 51.07 ZAP 17.75 ETS 177.70 ZAE 136.91 ETE 192.38 ZAC 77.06 ETC 164.97 CLP 17.74

DISTANCE 200.819

PLANETOCENTRIC CONIC

C3 125.169 VHL 11.188 DLA 13.32 RAL 15.16 RAD 6570.3 VEL 15.700 PTH 2.79 VHP 18.316 DPA -10.84 RAP 344.84 ECC 3.0600
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 54 1 3077.68 -27.45 102.05 274.55 82.74 6 45 19 2477.7 -28.17 93.46
 90.00 21 19 57 4668.26 19.80 211.05 263.15 69.34 22 41 5 4268.3 16.81 203.65
 100.00 7 22 19 2792.92 -29.16 81.35 274.80 83.10 8 8 52 2192.9 -29.81 72.60
 100.00 22 34 20 4628.25 21.41 192.74 262.49 68.63 23 51 28 4028.2 18.32 185.31
 110.00 8 46 11 2530.46 -33.72 62.02 275.40 84.05 9 28 22 1930.5 -34.18 52.80
 110.00 23 26 57 4463.46 25.66 178.33 260.58 66.60 24 41 20 3863.5 22.27 170.82

DIFFERENTIAL CORRECTIONS

TDE -.9546 TRA-2.3396 TC3 -.2026 BAU .3441
 RDE -.8272 RRA .3955 RC3 -.0352 FAU .01284
 FDE .6032 FRA 1.1079 FC3 -.0888 BSP 4273
 BDE 1.2631 BRA 2.3728 BC3 .2056 FSP -148

MID-COURSE EXECUTION ACCURACY

SGT 1400.2 SGR 478.5 SG3 59.5
 RRT -.0202 RRF .0187 RTF -.8072
 SGB 1479.7 R23 -.0002 R13 .8072
 SG1 1400.2 SG2 478.4 THA 179.55

ORBIT DETERMINATION ACCURACY

ST 612.9 SR 428.2 SS 561.8
 CRT .7013 CRS .7888 CST .9906
 LSA 894.9 MSA 271.1 SSA 16.0
 EL1 698.0 EL2 268.0 ALF 31.21

LAUNCH DATE DEC 2 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -0.00 LOL 69.89 VL 23.038 GAL 16.62 AZL 86.71 HCA 77.48 SMA 104.57 ECC .48613 INC 3.2869 V1 30.211
 RP 107.51 LAP 3.21 LOP 147.35 VP 34.639 GAP -29.05 AZP 89.29 TAL 160.58 TAP 238.06 RCA 53.74 APO 155.41 V2 35.250
 RC 60.278 GL 6.77 GP -.68 ZAL 50.33 ZAP 16.41 ETS 177.54 ZAE 137.90 ETE 193.18 ZAC 78.91 ETC 165.20 CLP 16.39

DISTANCE 207.323

PLANETOCENTRIC CONIC

C3 115.382 VHL 10.742 DLA 14.03 RAL 15.73 RAD 6570.2 VEL 15.386 PTH 2.75 VHP 17.601 DPA -10.14 RAP 346.63 ECC 2.8989
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 59 3086.37 -27.37 102.67 274.21 82.44 6 41 25 2486.4 -28.13 94.09
 90.00 21 28 32 4827.11 18.79 208.45 262.53 68.42 22 48 59 4227.1 15.70 201.14
 100.00 7 18 46 2800.06 -29.10 81.87 274.46 82.83 8 5 26 2200.1 -29.78 73.13
 100.00 22 42 26 4588.66 20.41 190.23 261.84 67.67 23 58 55 3988.7 17.20 182.90
 110.00 8 43 41 2534.35 -33.70 62.32 275.09 83.87 9 25 55 1934.3 -34.18 53.11
 110.00 23 34 1 4427.13 24.66 175.99 259.85 65.54 24 47 48 3827.1 21.15 168.60

DIFFERENTIAL CORRECTIONS

TDE -.9822 TRA-2.3496 TC3 -.2100 BAU .3293
 RDE -.7894 RRA .3727 RC3 -.0386 FAU .01313
 FDE .6279 FRA 1.1449 FC3 -.0985 BSP 4448
 BDE 1.2446 BRA 2.3789 BC3 .2135 FSP -161

MID-COURSE EXECUTION ACCURACY

SGT 1461.4 SGR 475.6 SG3 64.3
 RRT -.0162 RRF .0156 RTF -.8184
 SGB 1536.8 R23 -.0008 R13 .8184
 SG1 1461.4 SG2 475.5 THA 179.66

ORBIT DETERMINATION ACCURACY

ST 643.3 SR 425.5 SS 584.8
 CRT .7026 CRS .7908 CST .9904
 LSA 928.9 MSA 271.5 SSA 16.1
 EL1 722.6 EL2 269.6 ALF 29.41

LAUNCH DATE DEC 2 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -0.00 LOL 69.89 VL 23.392 GAL 15.91 AZL 86.69 HCA 80.73 SMA 105.94 ECC .46609 INC 3.3095 V1 30.211
 RP 107.52 LAP 3.27 LOP 150.60 VP 34.872 GAP -27.77 AZP 89.47 TAL 159.89 TAP 240.62 RCA 56.56 APO 155.32 V2 35.246
 RC 58.412 GL 7.23 GP -.71 ZAL 49.64 ZAP 15.07 ETS 177.31 ZAE 139.01 ETE 194.06 ZAC 80.76 ETC 165.42 CLP 15.05

DISTANCE 213.876

PLANETOCENTRIC CONIC

C3 106.399 VHL 10.315 DLA 14.75 RAL 16.26 RAD 6570.0 VEL 15.091 PTH 2.71 VHP 16.908 DPA -9.43 RAP 348.43 ECC 2.7511
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 45 38 3094.91 -27.29 103.29 273.76 82.14 6 37 13 2494.9 -28.10 94.71
 90.00 21 37 3 4785.21 17.72 205.84 261.88 67.55 22 56 48 4185.2 14.53 198.62
 100.00 7 14 56 2806.96 -29.04 82.37 274.03 82.57 8 1 43 2207.0 -29.76 73.64
 100.00 22 50 27 4548.39 19.35 187.71 261.16 66.76 24 6 15 3948.4 16.04 180.48
 110.00 8 40 55 2537.89 -33.67 62.59 274.68 83.71 9 23 13 1937.9 -34.17 53.38
 110.00 23 40 56 4390.23 23.60 173.64 259.09 64.52 24 54 6 3790.2 19.97 166.38

DIFFERENTIAL CORRECTIONS

TDE -.9679 TRA-2.3553 TC3 -.2161 BAU .3132
 RDE -.7520 RRA .3503 RC3 -.0422 FAU .01348
 FDE .6539 FRA 1.1830 FC3 -.1097 BSP 4677
 BDE 1.2257 BRA 2.3812 BC3 .2202 FSP -176

MID-COURSE EXECUTION ACCURACY

SGT 1522.5 SGR 471.8 SG3 69.4
 RRT -.0122 RRF .0124 RTF -.8292
 SGB 1593.9 R23 -.0012 R13 .8292
 SG1 1522.5 SG2 471.7 THA 179.76

ORBIT DETERMINATION ACCURACY

ST 673.8 SR 422.1 SS 608.6
 CRT .7037 CRS .7929 CST .9902
 LSA 963.6 MSA 271.3 SSA 16.2
 EL1 747.7 EL2 270.2 ALF 27.71

LAUNCH DATE DEC 2 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -0.00 LOL 69.89 VL 23.724 GAL 15.23 AZL 86.67 HCA 83.98 SMA 107.28 ECC .44681 INC 3.3317 V1 30.211
 RP 107.53 LAP 3.31 LOP 153.85 VP 35.090 GAP -26.54 AZP 89.65 TAL 159.22 TAP 243.20 RCA 59.35 APO 155.22 V2 35.241
 RC 56.605 GL 7.72 GP -.75 ZAL 49.00 ZAP 13.73 ETS 177.00 ZAE 140.24 ETE 195.02 ZAC 82.62 ETC 165.62 CLP 13.71

DISTANCE 220.475

PLANETOCENTRIC CONIC

C3 98.156 VHL 9.907 DLA 15.47 RAL 16.73 RAD 6569.9 VEL 14.815 PTH 2.68 VHP 16.235 DPA -8.72 RAP 350.22 ECC 2.6154
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 40 58 3103.39 -27.21 103.89 273.24 81.84 6 32 41 2503.4 -28.06 95.33
 90.00 21 45 30 4742.52 16.59 203.22 261.20 66.72 23 4 32 4142.5 13.30 196.09
 100.00 7 10 47 2813.72 -28.98 82.87 273.31 82.32 7 57 41 2213.7 -29.74 74.14
 100.00 22 58 22 4507.42 18.23 185.18 260.45 65.89 24 13 29 3907.4 14.82 178.05
 110.00 8 37 54 2541.15 -33.64 62.84 274.19 83.57 9 20 15 1941.2 -34.17 53.64
 110.00 23 47 44 4352.76 22.48 171.31 258.31 63.54 25 0 17 3752.8 18.74 164.17

DIFFERENTIAL CORRECTIONS

TDE -.9737 TRA-2.3587 TC3 -.2214 BAU .2968
 RDE -.7153 RRA .3283 RC3 -.0461 FAU .01386
 FDE .6817 FRA 1.2227 FC3 -.1222 BSP 4914
 BDE 1.2082 BRA 2.3815 BC3 .2261 FSP -192

MID-COURSE EXECUTION ACCURACY

SGT 1585.1 SGR 467.1 SG3 74.9
 RRT -.0079 RRF .0088 RTF -.8394
 SGB 1652.6 R23 -.0015 R13 .8394
 SG1 1585.2 SG2 467.1 THA 179.85

ORBIT DETERMINATION ACCURACY

ST 705.4 SR 417.8 SS 633.4
 CRT .7053 CRS .7952 CST .9900
 LSA 1000.0 MSA 270.3 SSA 16.3
 EL1 774.1 EL2 269.9 ALF 26.08

LAUNCH DATE DEC 2 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 227.113

RL 147.47 LAL -.00 LOL 69.89 VL 24.036 GAL 14.58 AZL 86.65 HCA 87.22 SMA 108.59 ECC .42829 INC 3.3536 V1 30.211
 RP 107.55 LAP 3.35 LOP 157.10 VP 35.296 GAP -25.35 AZP 89.84 TAL 158.59 TAP 245.81 RCA 62.08 APO 155.10 V2 35.235
 RC 54.864 GL 8.22 GP -.79 ZAL 48.42 ZAP 12.40 ETS 176.59 ZAE 141.60 ETE 196.08 ZAC 84.47 ETC 165.81 CLP 12.38

PLANETOCENTRIC CONIC

C3 90.596 VHL 9.518 DLA 16.18 RAL 17.15 RAD 6569.8 VEL 14.558 PTH 2.64 VHP 15.582 DPA -8.00 RAP 352.00 ECC 2.4910
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 57 3111.93 -27.13 104.50 272.62 81.55 6 27 48 2511.9 -28.02 95.95
 90.00 21 53 54 4699.04 15.40 200.58 260.49 65.94 23 12 13 4099.0 12.03 193.53
 100.00 7 6 20 2820.45 -28.92 83.36 272.91 82.07 7 53 20 2220.5 -29.71 74.64
 100.00 23 6 12 4465.75 17.05 182.65 259.71 65.07 24 20 38 3865.7 13.55 175.61
 110.00 8 34 36 2544.23 -33.62 63.08 273.61 83.43 9 17 1 1944.2 -34.16 53.88
 110.00 23 54 25 4314.74 21.31 168.98 257.49 62.62 25 6 20 3714.7 17.47 161.95

DIFFERENTIAL CORRECTIONS

TDE -.9797 TRA-2.3599 TC3 -.2259 BAU .2802
 RDE -.6791 RRA .3068 RC3 -.0501 FAU .01429
 FDE .7115 FRA 1.2643 FC3 -.1365 BSP 5154
 BDE 1.1921 BRA 2.3798 BC3 .2313 FSP -210

MID-COURSE EXECUTION ACCURACY

SGT 1649.4 SGR 461.7 SG3 81.0
 RRT -.0031 RRF .0048 RTF -.8491
 SGB 1712.8 R23 -.0019 R13 .8491
 SG1 1649.4 SG2 461.7 THA 179.95

ORBIT DETERMINATION ACCURACY

ST 738.2 SR 412.9 SS 659.5
 CRT .7072 CRS .7977 CST .9899
 LSA 1038.2 MSA 268.7 SSA 16.4
 EL1 802.0 EL2 268.7 ALF 24.51

LAUNCH DATE DEC 2 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 233.787

RL 147.47 LAL -.00 LOL 69.89 VL 24.328 GAL 13.95 AZL 86.62 HCA 90.46 SMA 109.86 ECC .41053 INC 3.3754 V1 30.211
 RP 107.57 LAP 3.38 LOP 160.35 VP 35.490 GAP -24.21 AZP 90.03 TAL 157.98 TAP 248.45 RCA 64.76 APO 154.96 V2 35.229
 RC 53.197 GL 8.74 GP -.83 ZAL 47.89 ZAP 11.07 ETS 176.02 ZAE 143.08 ETE 197.27 ZAC 86.33 ETC 165.98 CLP 11.04

PLANETOCENTRIC CONIC

C3 83.664 VHL 9.147 DLA 16.89 RAL 17.53 RAD 6569.6 VEL 14.318 PTH 2.60 VHP 14.948 DPA -7.28 RAP 353.78 ECC 2.3769
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 32 3120.65 -27.04 105.13 271.93 81.25 6 22 33 2520.7 -27.97 96.59
 90.00 22 2 18 4654.74 14.16 197.92 259.75 65.22 23 19 52 4054.7 10.70 190.95
 100.00 7 1 31 2827.25 -28.85 83.85 272.23 81.82 7 48 38 2227.3 -29.68 75.15
 100.00 23 14 0 4423.37 15.81 180.11 258.94 64.30 24 27 43 3823.4 12.23 173.15
 110.00 8 31 1 2547.21 -33.60 63.31 272.96 83.30 9 13 29 1947.2 -34.16 54.11
 110.00 0 4 55 4276.18 20.08 166.66 256.66 61.74 1 16 11 3676.2 16.15 159.75

DIFFERENTIAL CORRECTIONS

TDE -.9857 TRA-2.3585 TC3 -.2291 BAU .2633
 RDE -.6436 RRA .2858 RC3 -.0543 FAU .01477
 FDE .7434 FRA 1.3077 FC3 -.1528 BSP 5408
 BDE 1.1772 BRA 2.3757 BC3 .2354 FSP -230

MID-COURSE EXECUTION ACCURACY

SGT 1714.9 SGR 455.4 SG3 87.6
 RRT -.0021 RRF .0005 RTF -.8583
 SGB 1774.3 R23 -.0024 R13 -.8583
 SG1 1714.9 SG2 455.4 THA .03

ORBIT DETERMINATION ACCURACY

ST 772.0 SR 407.1 SS 686.9
 CRT .7095 CRS .8004 CST .9898
 LSA 1078.1 MSA 266.5 SSA 16.4
 EL1 831.0 EL2 266.5 ALF 23.01

LAUNCH DATE DEC 2 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 240.491

RL 147.47 LAL -.00 LOL 69.89 VL 24.601 GAL 13.36 AZL 86.60 HCA 93.70 SMA 111.09 ECC .39354 INC 3.3972 V1 30.211
 RP 107.59 LAP 3.39 LOP 163.60 VP 35.671 GAP -23.11 AZP 90.22 TAL 157.41 TAP 251.12 RCA 67.37 APO 154.81 V2 35.222
 RC 51.611 GL 9.28 GP -.88 ZAL 47.41 ZAP 9.73 ETS 175.25 ZAE 144.69 ETE 198.60 ZAC 88.18 ETC 166.15 CLP 9.70

PLANETOCENTRIC CONIC

C3 77.312 VHL 8.793 DLA 17.61 RAL 17.85 RAD 6569.5 VEL 14.095 PTH 2.57 VHP 14.334 DPA -6.56 RAP 355.55 ECC 2.2724
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 43 3129.71 -26.94 105.77 271.15 80.94 6 16 53 2529.7 -27.92 97.24
 90.00 22 10 42 4609.59 12.85 195.25 258.99 64.55 23 27 31 4009.6 9.32 188.35
 100.00 6 56 20 2834.26 -28.78 84.36 271.47 81.56 7 43 35 2234.3 -29.65 75.66
 100.00 23 21 46 4380.27 14.53 177.55 258.16 63.58 24 34 46 3780.3 10.86 170.68
 110.00 8 27 8 2550.19 -33.57 63.54 272.22 83.16 9 9 38 1950.2 -34.16 54.34
 110.00 0 11 23 4237.10 18.81 164.35 255.81 60.91 1 22 0 3637.1 14.78 157.54

DIFFERENTIAL CORRECTIONS

TDE -.9926 TRA-2.3555 TC3 -.2313 BAU .2466
 RDE -.6089 RRA .2655 RC3 -.0587 FAU .01529
 FDE .7781 FRA 1.3536 FC3 -.1713 BSP 5652
 BDE 1.1645 BRA 2.3704 BC3 .2386 FSP -251

MID-COURSE EXECUTION ACCURACY

SGT 1782.4 SGR 448.3 SG3 94.8
 RRT .0079 RRF -.0043 RTF -.8670
 SGB 1837.9 R23 .0030 R13 -.8670
 SG1 1782.4 SG2 448.3 THA .12

ORBIT DETERMINATION ACCURACY

ST 807.4 SR 400.5 SS 715.9
 CRT .7124 CRS .8034 CST .9897
 LSA 1120.3 MSA 263.5 SSA 16.5
 EL1 862.0 EL2 263.5 ALF 21.57

LAUNCH DATE DEC 2 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 247.221

RL 147.47 LAL -.00 LOL 69.89 VL 24.858 GAL 12.78 AZL 86.58 HCA 96.94 SMA 112.28 ECC .37729 INC 3.4191 V1 30.211
 RP 107.61 LAP 3.39 LOP 166.84 VP 35.841 GAP -22.04 AZP 90.41 TAL 156.88 TAP 253.82 RCA 69.92 APO 154.65 V2 35.215
 RC 50.116 GL 9.85 GP -.94 ZAL 46.99 ZAP 8.40 ETS 174.15 ZAE 146.43 ETE 200.10 ZAC 90.03 ETC 166.29 CLP 8.35

PLANETOCENTRIC CONIC

C3 71.493 VHL 8.455 DLA 18.33 RAL 18.12 RAD 6569.4 VEL 13.887 PTH 2.54 VHP 13.738 DPA -5.84 RAP 357.32 ECC 2.1766
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 28 3139.26 -26.84 106.45 270.30 80.61 6 10 47 2539.3 -27.86 97.94
 90.00 22 19 7 4563.55 11.49 192.55 258.22 63.94 23 35 11 3963.6 7.89 185.72
 100.00 6 50 46 2841.60 -28.71 84.89 270.64 81.28 7 38 8 2241.6 -29.61 76.21
 100.00 23 29 30 4336.44 13.18 174.99 257.35 62.93 24 41 47 3736.4 9.45 168.19
 110.00 8 22 56 2553.27 -33.55 63.78 271.42 83.02 9 5 29 1953.3 -34.15 54.58
 110.00 0 17 46 4197.53 17.48 162.05 254.94 60.15 1 27 44 3597.5 13.38 155.34

DIFFERENTIAL CORRECTIONS

TDE -1.0000 TRA-2.3499 TC3 -.2321 BAU .2299
 RDE -.5748 RRA .2459 RC3 -.0632 FAU .01588
 FDE .8157 FRA 1.4020 FC3 -.1922 BSP 5899
 BDE 1.1534 BRA 2.3627 BC3 .2405 FSP -274

MID-COURSE EXECUTION ACCURACY

SGT 1851.2 SGR 440.4 SG3 102.7
 RRT .0141 RRF -.0094 RTF -.8752
 SGB 1902.8 R23 -.0037 R13 -.8752
 SG1 1851.2 SG2 440.4 THA .20

ORBIT DETERMINATION ACCURACY

ST 844.1 SR 393.1 SS 746.7
 CRT .7157 CRS .8066 CST .9896
 LSA 1164.8 MSA 259.8 SSA 16.5
 EL1 894.4 EL2 259.1 ALF 20.20

LAUNCH DATE DEC 2 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 253.973

RL 147.47 LAL -0.00 LOL 69.89 VL 25.098 GAL 12.23 AZL 86.56 MCA 100.18 SMA 113.44 ECC .36179 INC 3.4414 V1 30.211
 RP 107.64 LAP 3.39 LOP 170.09 VP 36.000 GAP -21.02 AZP 90.61 TAL 156.38 TAP 256.56 RCA 72.40 APO 154.48 V2 35.207
 RC 48.721 GL 10.43 GP -1.00 ZAL 46.63 ZAP 7.06 ETS 172.53 ZAE 148.30 ETE 201.83 ZAC 91.87 ETC 166.43 CLP 6.99

PLANETOCENTRIC CONIC

C3 66.168 VML 8.134 DLA 19.04 RAL 18.35 RAD 6569.3 VEL 13.694 PTH 2.50 VHP 13.160 DPA -5.13 RAP 359.07 ECC 2.0890
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 44 3149.47 -26.72 107.18 269.39 80.27 6 4 14 2549.5 -27.80 98.68
 90.00 22 27 37 4516.60 10.07 189.83 257.43 63.40 23 42 54 3916.6 6.42 183.06
 100.00 6 44 47 2849.42 -28.62 85.46 269.74 81.00 7 32 16 2249.4 -29.57 76.79
 100.00 23 37 16 4291.88 11.79 172.42 256.54 62.33 24 48 48 3691.9 7.99 165.69
 110.00 8 18 23 2556.56 -33.52 64.03 270.55 82.88 9 1 0 1956.6 -34.14 54.84
 110.00 0 24 5 4157.50 16.11 159.75 254.06 59.44 1 33 22 3557.5 11.93 153.13

DIFFERENTIAL CORRECTIONS

TOE-1.0075 TRA-2.3417 TC3 -.2311 BAU .2130
 RDE -.5416 RRA .2270 RC3 -.0679 FAU .01653
 FDE .8565 FRA 1.4532 FC3 -.2162 BSP 6155
 BOE 1.1438 BRA 2.3526 BC3 .2408 FSP -300

MID-COURSE EXECUTION ACCURACY

SGT 1920.8 SGR 431.7 SG3 111.3
 RRT .0206 RRF -.0147 RTF -.8830
 SGB 1968.7 R23 .0045 R13 -.8829
 SG1 1920.8 SG2 431.6 TMA .28

ORBIT DETERMINATION ACCURACY

ST 881.9 SR 384.9 SS 779.2
 CRT .7195 CRS .8100 CST .9896
 LSA 1211.3 MSA 255.6 SSA 16.6
 EL1 928.1 EL2 254.0 ALF 18.90

LAUNCH DATE DEC 2 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 260.743

RL 147.47 LAL -0.00 LOL 69.89 VL 25.323 GAL 11.71 AZL 86.54 MCA 103.42 SMA 114.54 ECC .34703 INC 3.4641 V1 30.211
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.149 GAP -20.02 AZP 90.80 TAL 155.92 TAP 259.34 RCA 74.79 APO 154.29 V2 35.198
 RC 47.437 GL 11.03 GP -1.07 ZAL 46.32 ZAP 5.73 ETS 170.02 ZAE 150.29 ETE 203.84 ZAC 93.70 ETC 166.55 CLP 5.62

PLANETOCENTRIC CONIC

C3 61.296 VML 7.829 DLA 19.77 RAL 18.52 RAD 6569.1 VEL 13.515 PTH 2.47 VHP 12.600 DPA -4.43 RAP .81 ECC 2.0088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 29 3160.55 -26.59 107.96 268.40 79.89 5 57 10 2560.6 -27.72 99.48
 90.00 22 36 14 4468.66 8.60 187.08 256.64 62.92 23 50 43 3868.7 4.90 180.36
 100.00 6 38 21 2857.89 -28.53 86.07 268.77 80.69 7 25 59 2257.9 -29.52 77.41
 100.00 23 45 3 4246.55 10.34 169.83 255.71 61.80 24 55 50 3646.6 6.49 163.16
 110.00 8 13 30 2560.19 -33.49 64.31 269.62 82.71 8 56 10 1960.2 -34.13 55.12
 110.00 0 30 19 4117.03 14.69 157.47 253.17 58.78 1 38 56 3517.0 10.45 150.94

DIFFERENTIAL CORRECTIONS

TOE-1.0158 TRA-2.3312 TC3 -.2283 BAU .1964
 RDE -.5092 RRA .2089 RC3 -.0726 FAU .01724
 FDE .9011 FRA 1.5076 FC3 -.2435 BSP 6406
 BOE 1.1362 BRA 2.3405 BC3 .2396 FSP -328

MID-COURSE EXECUTION ACCURACY

SGT 1991.7 SGR 422.1 SG3 120.8
 RRT .0276 RRF -.0202 RTF -.8903
 SGB 2035.9 R23 .0055 R13 -.8903
 SG1 1991.7 SG2 421.9 TMA .35

ORBIT DETERMINATION ACCURACY

ST 921.1 SR 375.8 SS 813.7
 CRT .7237 CRS .8136 CST .9896
 LSA 1260.5 MSA 250.7 SSA 16.6
 EL1 963.4 EL2 247.9 ALF 17.66

LAUNCH DATE DEC 2 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 267.527

RL 147.47 LAL -0.00 LOL 69.89 VL 25.533 GAL 11.21 AZL 86.51 MCA 106.66 SMA 115.61 ECC .33298 INC 3.4874 V1 30.211
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.287 GAP -19.06 AZP 91.00 TAL 155.49 TAP 262.15 RCA 77.11 APO 154.11 V2 35.189
 RC 46.274 GL 11.66 GP -1.14 ZAL 46.06 ZAP 4.40 ETS 165.79 ZAE 152.38 ETE 206.20 ZAC 95.52 ETC 166.66 CLP 4.24

PLANETOCENTRIC CONIC

C3 56.844 VML 7.539 DLA 20.49 RAL 18.63 RAD 6569.0 VEL 13.349 PTH 2.44 VHP 12.057 DPA -3.73 RAP 2.54 ECC 1.9355
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 40 3172.74 -26.44 108.83 267.35 79.49 5 49 32 2572.7 -27.63 100.36
 90.00 22 45 0 4419.67 7.07 184.30 255.85 62.51 23 58 40 3819.7 3.33 177.61
 100.00 6 31 25 2867.18 -28.43 86.74 267.75 80.35 7 19 12 2267.2 -29.47 78.10
 100.00 23 52 56 4200.45 8.85 167.23 254.89 61.33 25 2 56 3600.5 4.95 160.60
 110.00 8 8 14 2564.26 -33.45 64.62 268.63 82.53 8 50 59 1964.3 -34.13 55.44
 110.00 0 36 31 4076.14 13.24 155.19 252.28 58.19 1 44 28 3476.1 8.94 148.74

DIFFERENTIAL CORRECTIONS

TOE-1.0247 TRA-2.3183 TC3 -.2236 BAU .1798
 RDE -.4775 RRA .1917 RC3 -.0774 FAU .01804
 FDE .9501 FRA 1.5656 FC3 -.2748 BSP 6658
 BOE 1.1305 BRA 2.3262 BC3 .2366 FSP -359

MID-COURSE EXECUTION ACCURACY

SGT 2063.3 SGR 411.7 SG3 131.2
 RRT .0347 RRF -.0259 RTF -.8972
 SGB 2104.0 R23 .0066 R13 -.8972
 SG1 2063.4 SG2 411.4 TMA .41

ORBIT DETERMINATION ACCURACY

ST 961.7 SR 365.9 SS 850.6
 CRT .7284 CRS .8174 CST .9897
 LSA 1312.2 MSA 245.2 SSA 16.6
 EL1 1000.3 EL2 241.0 ALF 16.47

LAUNCH DATE DEC 2 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 274.322

RL 147.47 LAL -0.00 LOL 69.89 VL 25.729 GAL 10.73 AZL 86.49 MCA 109.89 SMA 116.63 ECC .31964 INC 3.5115 V1 30.211
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.416 GAP -18.14 AZP 91.20 TAL 155.10 TAP 264.99 RCA 79.35 APO 153.91 V2 35.179
 RC 45.244 GL 12.31 GP -1.23 ZAL 45.87 ZAP 3.10 ETS 157.61 ZAE 154.56 ETE 209.03 ZAC 97.32 ETC 166.77 CLP 2.85

PLANETOCENTRIC CONIC

C3 52.778 VML 7.265 DLA 21.22 RAL 18.70 RAD 6568.9 VEL 13.196 PTH 2.41 VHP 11.531 DPA -3.05 RAP 4.25 ECC 1.8686
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 12 3186.28 -26.27 109.78 266.24 79.04 5 41 18 2586.3 -27.52 101.33
 90.00 22 53 59 4369.50 5.48 181.46 255.06 62.18 24 6 48 3769.5 1.72 174.81
 100.00 6 23 58 2877.50 -28.31 87.49 266.66 79.97 7 11 55 2277.5 -29.40 78.86
 100.00 0 4 50 4153.51 7.30 164.60 254.06 60.93 1 14 4 3553.5 3.37 158.01
 110.00 8 2 36 2568.92 -33.41 64.98 267.59 82.32 8 45 25 1968.9 -34.11 55.81
 110.00 0 42 42 4034.86 11.75 152.93 251.39 57.67 1 49 57 3434.9 7.40 146.54

DIFFERENTIAL CORRECTIONS

TOE-1.0343 TRA-2.3031 TC3 -.2167 BAU .1635
 RDE -.4467 RRA .1753 RC3 -.0823 FAU .01892
 FDE 1.0041 FRA 1.6276 FC3 -.3104 BSP 6906
 BOE 1.1266 BRA 2.3098 BC3 .2318 FSP -393

MID-COURSE EXECUTION ACCURACY

SGT 2135.7 SGR 400.5 SG3 142.7
 RRT .0420 RRF -.0315 RTF -.9037
 SGB 2172.9 R23 .0079 R13 -.9037
 SG1 2135.7 SG2 400.1 TMA .47

ORBIT DETERMINATION ACCURACY

ST 1003.6 SR 355.1 SS 890.0
 CRT .7335 CRS .8214 CST .9898
 LSA 1366.7 MSA 239.2 SSA 16.6
 EL1 1038.7 EL2 233.2 ALF 15.34

LAUNCH DATE DEC 2 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 281.124

RL 147.47 LAL -.00 LOL 69.89 VL 25.912 GAL 10.28 AZL 86.46 HCA 113.12 SMA 117.61 ECC .30699 INC 3.5366 VI 30.211
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.536 GAP -17.24 AZP 91.39 TAL 154.75 TAP 267.87 RCA 81.50 APO 153.71 V2 35.169
 RC 44.357 GL 12.97 GP -1.33 ZAL 45.72 ZAP 1.95 ETS 138.20 ZAE 156.79 ETE 212.45 ZAC 99.10 ETC 166.86 CLP 1.43

PLANETOCENTRIC CONIC

C3 49.068 VHL 7.005 OLA 21.95 RAL 18.71 RAD 6568.8 VEL 13.055 PTH 2.38 VHP 11.022 DPA -2.39 RAP 5.94 ECC 1.8075
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 2 3201.50 -26.07 110.85 265.07 78.54 5 32 23 2601.5 -27.39 102.43
 90.00 23 3 16 4318.01 3.84 178.57 254.27 61.92 24 15 14 3718.0 .05 171.94
 100.00 6 15 56 2889.07 -28.17 88.32 265.53 79.56 7 4 5 2289.1 -29.32 79.71
 100.00 0 12 59 4105.67 5.71 161.93 253.24 60.61 1 21 25 3505.7 1.75 155.38
 110.00 7 56 32 2574.30 -33.36 65.39 266.51 82.08 8 39 27 1974.3 -34.10 56.23
 110.00 0 48 52 3993.21 10.22 150.67 250.50 57.20 1 55 25 3393.2 5.83 144.33

DIFFERENTIAL CORRECTIONS

TDE-1.0448 TRA-2.2852 TC3 -.2073 BAU .1475
 RDE -.4167 RRA .1600 RC3 -.0871 FAU .01990
 FDE 1.0636 FRA 1.6940 FC3 -.3512 BSP 7156
 BOE 1.1248 BRA 2.2908 BC3 .2249 FSP -431

MID-COURSE EXECUTION ACCURACY

SGT 2208.1 SGR 388.5 SG3 155.3
 RRT .0493 RRF -.0367 RTF -.9099
 SGB 2242.0 R23 .0096 R13 -.9098
 SG1 2208.2 SG2 388.0 THA .51

ORBIT DETERMINATION ACCURACY

ST 1046.9 SR 343.4 SS 932.0
 CRT .7390 CRS .8254 CST .9899
 LSA 1424.1 MSA 232.7 SSA 16.5
 EL1 1078.6 EL2 224.6 ALF 14.26

LAUNCH DATE DEC 2 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 287.930

RL 147.47 LAL -.00 LOL 69.89 VL 26.083 GAL 9.84 AZL 86.44 HCA 116.35 SMA 118.54 ECC .29501 INC 3.5629 VI 30.211
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.647 GAP -16.37 AZP 91.58 TAL 154.44 TAP 270.79 RCA 83.57 APO 153.51 V2 35.158
 RC 43.625 GL 13.67 GP -1.44 ZAL 45.64 ZAP 1.44 ETS 90.50 ZAE 159.04 ETE 216.67 ZAC 100.86 ETC 166.94 CLP -.01

PLANETOCENTRIC CONIC

C3 45.686 VHL 6.759 OLA 22.68 RAL 18.67 RAD 6568.7 VEL 12.925 PTH 2.36 VHP 10.528 DPA -1.75 RAP 7.61 ECC 1.7519
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 29 3 3218.78 -25.83 112.06 263.85 77.98 5 22 42 2618.8 -27.23 103.67
 90.00 23 12 56 4264.97 2.13 175.60 253.51 61.76 24 24 1 3665.0 -1.66 168.98
 100.00 6 7 15 2902.16 -28.00 89.26 264.35 79.09 6 55 37 2302.2 -29.22 80.67
 100.00 0 21 21 4056.82 4.07 159.23 252.44 60.36 1 28 58 3456.8 .10 152.70
 110.00 7 50 3 2580.56 -33.30 65.87 265.38 81.81 8 33 3 1980.6 -34.08 56.71
 110.00 0 55 2 3951.19 8.66 148.41 249.62 56.80 2 0 54 3351.2 4.23 142.12

DIFFERENTIAL CORRECTIONS

TDE-1.0543 TRA-2.2615 TC3 -.1940 BAU .1311
 RDE -.3873 RRA .1459 RC3 -.0918 FAU .02099
 FDE 1.1296 FRA 1.7656 FC3 -.3977 BSP 7397
 BOE 1.1232 BRA 2.2662 BC3 .2146 FSP -473

MID-COURSE EXECUTION ACCURACY

SGT 2277.0 SGR 375.7 SG3 169.2
 RRT .0556 RRF -.0411 RTF -.9159
 SGB 2307.8 R23 .0112 R13 -.9159
 SG1 2277.1 SG2 375.1 THA .54

ORBIT DETERMINATION ACCURACY

ST 1089.6 SR 330.8 SS 977.2
 CRT .7446 CRS .8295 CST .9901
 LSA 1483.4 MSA 225.7 SSA 16.4
 EL1 1118.2 EL2 215.2 ALF 13.24

LAUNCH DATE DEC 2 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 294.737

RL 147.47 LAL -.00 LOL 69.89 VL 26.242 GAL 9.43 AZL 86.41 HCA 119.58 SMA 119.43 ECC .28370 INC 3.5907 VI 30.211
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.750 GAP -15.53 AZP 91.77 TAL 154.16 TAP 273.74 RCA 85.55 APO 153.31 V2 35.147
 RC 43.055 GL 14.38 GP -1.56 ZAL 45.61 ZAP 2.15 ETS 47.71 ZAE 161.24 ETE 221.93 ZAC 102.60 ETC 167.02 CLP -1.48

PLANETOCENTRIC CONIC

C3 42.608 VHL 6.527 OLA 23.42 RAL 18.58 RAD 6568.6 VEL 12.805 PTH 2.33 VHP 10.051 DPA -1.13 RAP 9.27 ECC 1.7012
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 8 3238.62 -25.54 113.44 262.58 77.34 5 12 6 2638.6 -27.03 105.09
 90.00 23 23 7 4210.02 .36 172.54 252.77 61.69 24 33 18 3610.0 -3.43 165.91
 100.00 5 57 52 2917.07 -27.81 90.32 263.12 78.56 6 46 29 2317.1 -29.10 81.76
 100.00 0 30 1 4006.81 2.39 156.48 251.65 60.19 1 36 47 3406.8 -1.60 149.96
 110.00 7 43 6 2587.84 -33.23 66.42 264.23 81.49 8 26 13 1987.8 -34.05 57.28
 110.00 1 1 16 3908.80 7.07 146.16 248.75 56.47 2 6 25 3308.8 2.62 139.90

DIFFERENTIAL CORRECTIONS

TDE-1.0666 TRA-2.2419 TC3 -.1798 BAU .1163
 RDE -.3588 RRA .1326 RC3 -.0966 FAU .02219
 FDE 1.2032 FRA 1.8429 FC3 -.4510 BSP 7659
 BOE 1.1253 BRA 2.2458 BC3 .2041 FSP -520

MID-COURSE EXECUTION ACCURACY

SGT 2351.8 SGR 362.2 SG3 184.7
 RRT .0614 RRF -.0448 RTF -.9212
 SGB 2379.5 R23 .0132 R13 -.9212
 SG1 2351.9 SG2 361.5 THA .55

ORBIT DETERMINATION ACCURACY

ST 1136.0 SR 317.2 SS 1025.8
 CRT .7502 CRS .8336 CST .9903
 LSA 1547.6 MSA 218.8 SSA 16.3
 EL1 1161.5 EL2 205.1 ALF 12.22

LAUNCH DATE DEC 2 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 301.542

RL 147.47 LAL -.00 LOL 69.89 VL 26.390 GAL 9.03 AZL 86.38 HCA 122.81 SMA 120.27 ECC .27302 INC 3.6203 VI 30.211
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.844 GAP -14.72 AZP 91.96 TAL 153.92 TAP 276.73 RCA 87.44 APO 153.11 V2 35.135
 RC 42.657 GL 15.12 GP -1.70 ZAL 45.64 ZAP 3.44 ETS 31.02 ZAE 163.30 ETE 228.55 ZAC 104.30 ETC 167.10 CLP -2.99

PLANETOCENTRIC CONIC

C3 39.810 VHL 6.309 OLA 24.17 RAL 18.44 RAD 6568.5 VEL 12.696 PTH 2.31 VHP 9.588 DPA -.55 RAP 10.89 ECC 1.6552
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 6 4 3261.69 -25.19 115.04 261.25 76.62 5 0 26 2661.7 -26.78 106.73
 90.00 23 34 2 4152.66 -1.49 169.34 252.07 61.72 24 43 15 3552.7 -5.26 162.69
 100.00 5 47 39 2934.20 -27.57 91.54 261.85 77.96 6 36 33 2334.2 -28.95 83.01
 100.00 0 39 5 3955.39 .64 153.66 250.88 60.11 1 45 0 3355.4 -3.34 147.14
 110.00 7 35 39 2596.33 -33.14 67.07 263.04 81.11 8 18 55 1996.3 -34.02 57.94
 110.00 1 7 34 3866.02 5.46 143.90 247.89 56.20 2 12 0 3266.0 .98 137.67

DIFFERENTIAL CORRECTIONS

TDE-1.0789 TRA-2.2185 TC3 -.1618 BAU .1016
 RDE -.3308 RRA .1207 RC3 -.1011 FAU .02354
 FDE 1.2851 FRA 1.9265 FC3 -.5120 BSP 7899
 BOE 1.1285 BRA 2.2197 BC3 .1908 FSP -571

MID-COURSE EXECUTION ACCURACY

SGT 2422.5 SGR 347.8 SG3 201.8
 RRT .0656 RRF -.0464 RTF -.9263
 SGB 2447.4 R23 .0157 R13 -.9263
 SG1 2422.6 SG2 347.0 THA .55

ORBIT DETERMINATION ACCURACY

ST 1182.3 SR 302.6 SS 1078.0
 CRT .7560 CRS .8375 CST .9905
 LSA 1614.5 MSA 211.4 SSA 16.2
 EL1 1204.9 EL2 194.3 ALF 11.25

LAUNCH DATE DEC 2 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC
 RL 147.47 LAL -.00 LOL 69.89 VL 26.527 GAL 8.66 AZL 86.35 HCA 126.03 SMA 121.07 ECC .26295 INC 3.6521 V1 30.211
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.932 GAP -13.93 AZP 92.15 TAL 153.72 TAP 279.76 RCA 89.24 APO 152.91 V2 35.123
 RC 42.436 GL 15.88 GP -1.87 ZAL 45.72 ZAP 4.90 ETS 23.81 ZAE 165.12 ETE 236.87 ZAC 105.97 ETC 167.17 CLP -4.53

DISTANCE 308.343

PLANETOCENTRIC CONIC
 C3 37.270 VHL 6.105 DLA 24.92 RAL 18.24 RAD 6568.5 VEL 12.595 PTH 2.28 VHP 9.141 DPA -.01 RAP 12.49 ECC 1.6134
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 52 36 3288.95 -24.75 116.91 259.86 75.78 4 47 25 2688.9 -26.46 108.66
 90.00 23 45 57 4092.09 -3.44 165.96 251.42 61.88 24 54 9 3492.1 -7.17 159.27
 100.00 5 36 29 2954.04 -27.28 92.94 260.54 77.28 6 25 43 2354.0 -28.76 84.45
 100.00 0 48 41 3902.23 -1.16 150.74 250.15 60.13 1 53 43 3302.2 -5.13 144.20
 110.00 7 27 39 2606.23 -33.04 67.82 261.83 80.68 8 11 5 2006.2 -33.97 58.71
 110.00 1 14 0 3822.80 3.82 141.63 247.05 56.01 2 17 43 3222.8 -.67 135.42

MID-COURSE EXECUTION ACCURACY
 SGT 2491.9 SCR 332.7 SCS 220.8
 RRT .0672 RRF -.0452 RTF -.9312
 SGB 2514.0 R23 .0186 R13 -.9312
 SGI 2492.0 SGT 331.9 THA .52

ORBIT DETERMINATION ACCURACY
 ST 1229.5 SR 286.8 SS 1134.4
 CRT .7615 CRS .8411 CST .9908
 LSA 1684.9 MSA 203.9 SSA 15.9
 EL1 1249.2 EL2 182.9 ALF 10.30

DIFFERENTIAL CORRECTIONS
 TDE-1.0918 TRA-2.1886 TC3 -.1408 BAU .0877
 RDE -.3034 RRA .1102 RC3 -.1056 FAU .02503
 FDE 1.3770 FRA 2.0173 FC3 -.5815 BSP 8139
 BDE 1.1332 BRA 2.1914 BC3 .1760 FSP -629

LAUNCH DATE DEC 2 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC
 RL 147.47 LAL -.00 LOL 69.89 VL 26.655 GAL 8.31 AZL 86.31 HCA 129.25 SMA 121.83 ECC .25349 INC 3.6867 V1 30.211
 RP 107.93 LAP 2.85 LOP 199.20 VP 37.012 GAP -13.17 AZP 92.33 TAL 153.56 TAP 282.81 RCA 90.95 APO 152.71 V2 35.111
 RC 42.394 GL 16.67 GP -2.06 ZAL 45.85 ZAP 6.45 ETS 20.07 ZAE 166.57 ETE 247.09 ZAC 107.60 ETC 167.25 CLP -6.11

DISTANCE 315.138

PLANETOCENTRIC CONIC
 C3 34.988 VHL 5.913 DLA 25.68 RAL 18.00 RAD 6568.4 VEL 12.504 PTH 2.26 VHP 8.709 DPA .50 RAP 14.06 ECC 1.5755
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 37 16 3321.91 -24.18 119.16 258.40 74.79 4 32 38 2721.9 -26.03 110.98
 90.00 0 3 15 4028.91 -5.52 162.30 250.84 62.18 1 10 22 3426.9 -9.20 155.55
 100.00 5 24 10 2977.29 -26.92 94.58 259.18 76.49 6 13 47 2377.3 -26.51 86.14
 100.00 0 59 2 3846.77 -3.04 147.70 249.47 60.25 2 3 9 3246.8 -6.98 141.12
 110.00 7 19 4 2617.77 -32.91 68.70 260.60 80.18 8 2 42 2017.8 -35.91 59.61
 110.00 1 20 37 3779.05 2.15 139.34 246.24 55.88 2 23 36 3179.1 -2.34 133.13

MID-COURSE EXECUTION ACCURACY
 SGT 2555.6 SCR 316.8 SCS 241.9
 RRT .0638 RRF -.0391 RTF -.9358
 SGB 2575.2 R23 .0216 R13 -.9358
 SGI 2555.7 SGT 316.1 THA .46

ORBIT DETERMINATION ACCURACY
 ST 1274.9 SR 269.7 SS 1194.5
 CRT .7661 CRS .8440 CST .9911
 LSA 1756.8 MSA 196.5 SSA 15.6
 EL1 1291.9 EL2 171.1 ALF 9.37

DIFFERENTIAL CORRECTIONS
 TDE-1.1029 TRA-2.1556 TC3 -.1139 BAU .0740
 RDE -.2783 RRA .1011 RC3 -.1099 FAU .02675
 FDE 1.4792 FRA 2.1150 FC3 -.6623 BSP 8432
 BDE 1.1370 BRA 2.1580 BC3 .1583 FSP -695

LAUNCH DATE DEC 2 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC
 RL 147.47 LAL -.00 LOL 69.89 VL 26.774 GAL 7.97 AZL 86.28 HCA 132.47 SMA 122.54 ECC .24462 INC 3.7245 V1 30.211
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.086 GAP -12.43 AZP 92.32 TAL 153.43 TAP 285.91 RCA 92.56 APO 152.52 V2 35.099
 RC 42.534 GL 17.48 GP -2.28 ZAL 46.04 ZAP 8.07 ETS 17.92 ZAE 167.52 ETE 259.00 ZAC 109.20 ETC 167.34 CLP -7.74

DISTANCE 321.925

PLANETOCENTRIC CONIC
 C3 32.888 VHL 5.735 DLA 26.45 RAL 17.70 RAD 6568.3 VEL 12.420 PTH 2.24 VHP 8.292 DPA .94 RAP 15.60 ECC 1.5413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 19 13 3363.33 -23.41 121.95 256.84 73.59 4 15 16 2763.3 -25.43 113.86
 90.00 0 18 55 3954.56 -7.80 158.20 250.37 62.69 1 24 49 3354.6 -11.40 151.38
 100.00 5 10 23 3004.95 -26.47 96.51 257.77 75.57 6 0 28 2404.9 -28.19 88.13
 100.00 1 10 26 3788.17 -5.01 144.47 248.85 60.49 2 13 34 3188.2 -8.90 137.84
 110.00 .7 9 49 2631.24 -32.75 69.72 259.36 79.59 7 53 40 2031.2 -33.83 60.65
 110.00 1 27.29 3734.64 .45 137.02 245.46 55.82 2 29 44 3134.6 -4.03 130.81

MID-COURSE EXECUTION ACCURACY
 SGT 2621.3 SCR 300.2 SCS 265.5
 RRT .0559 RRF -.0274 RTF -.9401
 SGB 2636.5 R23 .0259 R13 -.9400
 SGI 2621.4 SGT 302.7 THA .37

ORBIT DETERMINATION ACCURACY
 ST 1323.8 SR 251.2 SS 1260.9
 CRT .7700 CRS .8459 CST .9914
 LSA 1835.6 MSA 189.1 SSA 15.3
 EL1 1338.1 EL2 158.6 ALF 8.43

DIFFERENTIAL CORRECTIONS
 TDE-1.1178 TRA-2.1234 TC3 -.0877 BAU .0633
 RDE -.2494 RRA .0936 RC3 -.1141 FAU .02859
 FDE 1.5962 FRA 2.2234 FC3 -.7527 BSP 8635
 BDE 1.1453 BRA 2.1254 BC3 .1439 FSP -766

LAUNCH DATE DEC 2 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC
 RL 147.47 LAL -.00 LOL 69.89 VL 26.883 GAL 7.66 AZL 86.23 HCA 135.69 SMA 123.21 ECC .23630 INC 3.7664 V1 30.211
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.133 GAP -11.72 AZP 92.70 TAL 153.34 TAP 289.03 RCA 94.09 APO 152.32 V2 35.086
 RC 42.853 GL 18.32 GP -2.54 ZAL 46.27 ZAP 9.77 ETS 16.64 ZAE 167.87 ETE 271.74 ZAC 110.74 ETC 167.44 CLP -9.43

DISTANCE 328.701

PLANETOCENTRIC CONIC
 C3 31.014 VHL 5.569 DLA 27.23 RAL 17.35 RAD 6568.2 VEL 12.345 PTH 2.23 VHP 7.889 DPA 1.33 RAP 17.10 ECC 1.5104
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 56 34 3419.30 -22.28 125.68 255.11 72.06 3 53 33 2819.3 -24.53 117.71
 90.00 0 38 46 3869.05 -10.44 153.30 250.09 63.53 1 43 15 3269.1 -13.91 146.35
 100.00 4 54 39 3038.64 -25.87 98.84 256.30 74.48 5 45 18 2438.6 -27.75 90.54
 100.00 1 23 22 3724.95 -7.12 140.96 248.32 60.89 2 25 27 3125.0 -10.95 134.26
 110.00 6 59 48 2647.01 -32.55 70.90 258.10 78.92 7 43 55 2047.0 -33.73 61.87
 110.00 1 34 42 3689.34 -1.28 134.66 244.71 55.84 2 36 11 3089.3 -5.75 128.43

MID-COURSE EXECUTION ACCURACY
 SGT 2684.1 SCR 283.0 SCS 291.9
 RRT .0392 RRF -.0061 RTF -.9440
 SGB 2699.0 R23 .0313 R13 -.9439
 SGI 2684.1 SGT 282.8 THA .24

ORBIT DETERMINATION ACCURACY
 ST 1373.0 SR 230.9 SS 1333.1
 CRT .7719 CRS .8461 CST .9917
 LSA 1918.9 MSA 181.9 SSA 14.8
 EL1 1384.6 EL2 145.6 ALF 7.48

DIFFERENTIAL CORRECTIONS
 TDE-1.1333 TRA-2.0887 TC3 -.0591 BAU .0549
 RDE -.2224 RRA .0879 RC3 -.1184 FAU .03064
 FDE 1.7288 FRA 2.3423 FC3 -.8554 BSP 8827
 BDE 1.1549 BRA 2.0906 BC3 .1323 FSP -845

LAUNCH DATE DEC 2 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 335.464

RL 147.47 LAL -.00 LOL 69.89 VL 26.985 GAL 7.36 AZL 86.19 MCA 138.91 SMA 123.84 ECC .22853 INC 3.8134 V1 30.211
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.214 GAP -11.02 AZP 92.88 TAL 153.27 TAP 292.18 RCA 95.54 APO 152.14 V2 35.073
 RC 43.347 GL 19.19 GP -2.85 ZAL 46.56 ZAP 11.54 ETS 15.89 ZAE 167.63 ETE 283.95 ZAC 112.23 ETC 167.56 CLP -11.19

PLANETOCENTRIC CONIC

C3 29.332 VHL 5.416 DLA 28.02 RAL 16.94 RAD 6568.2 VEL 12.276 PTH 2.21 VHP 7.500 DPA 1.64 RAP 18.56 ECC 1.4827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 22 3 3513.30 -20.18 131.76 252.95 69.71 3 20 36 2913.3 -22.77 124.04
 90.00 1 10 4 3747.08 -14.04 146.16 250.28 65.15 2 12 31 3147.1 -17.27 138.97
 100.00 4 36 2 3081.34 -25.06 101.75 254.72 73.15 5 27 24 2481.3 -27.13 93.56
 100.00 1 38 46 3654.27 -9.44 136.99 247.92 61.50 2 39 40 3054.3 -13.17 130.19
 110.00 6 48 53 2665.57 -32.29 72.29 256.83 78.13 7 33 18 2065.6 -33.59 63.30
 110.00 1 42 25 3642.81 -3.06 132.23 244.02 55.94 2 43 7 3042.8 -7.51 125.97

DIFFERENTIAL CORRECTIONS

TDE-1.1464 TRA-2.0481 TC3 -.0241 BAU .0491
 RDE -.1950 RRA .0844 RC3 -.1227 FAU .03302
 FDE 1.8780 FRA 2.4704 FC3 -.9745 BSP 9073
 BOE 1.1629 BRA 2.0499 BC3 .1251 FSP -937

MID-COURSE EXECUTION ACCURACY

SGT 2737.9 SGR 265.4 SG3 321.3
 RRT .0075 RRF .0302 RTF -.9478
 SGB 2750.7 R23 .0374 R13 -.9478
 SG1 2737.9 SG2 265.4 THA .04

ORBIT DETERMINATION ACCURACY

ST 1418.9 SR 208.5 SS 1410.3
 CRT .7701 CRS .8433 CST .9921
 LSA 2003.7 MSA 175.2 SSA 14.2
 EL1 1428.0 EL2 132.2 ALF 6.51

LAUNCH DATE DEC 2 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 342.214

RL 147.47 LAL -.00 LOL 69.89 VL 27.079 GAL 7.08 AZL 86.13 MCA 142.12 SMA 124.43 ECC .22129 INC 3.8668 V1 30.211
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.270 GAP -10.35 AZP 93.05 TAL 153.24 TAP 295.36 RCA 96.89 APO 151.96 V2 35.060
 RC 44.011 GL 20.09 GP -3.23 ZAL 46.90 ZAP 13.40 ETS 15.53 ZAE 166.91 ETE 294.50 ZAC 113.66 ETC 167.72 CLP -13.01

PLANETOCENTRIC CONIC

C3 27.829 VHL 5.275 DLA 28.83 RAL 16.49 RAD 6568.1 VEL 12.215 PTH 2.19 VHP 7.125 DPA 1.87 RAP 19.98 ECC 1.4580
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.33 0 57 13 3769.26 -17.91 149.57 250.56 67.02 2 0 2 3169.3 -20.87 142.10
 95.67 2 31 16 3464.86 -17.90 127.25 250.55 67.01 3 29 1 2864.9 -20.86 119.79
 100.00 4 12 22 3139.97 -23.85 105.68 252.97 71.42 5 4 42 2540.0 -26.16 97.65
 100.00 1 58 48 3569.38 -12.15 132.15 247.75 62.48 2 58 17 2969.4 -15.74 125.20
 110.00 6 36 50 2687.60 -31.97 73.93 255.54 77.21 7 21 38 2087.6 -33.40 64.99
 110.00 1 50 48 3594.51 -4.89 129.70 243.39 56.13 2 50 43 2994.5 -9.31 123.39

DIFFERENTIAL CORRECTIONS

TDE-1.1598 TRA-2.0049 TC3 .0129 BAU .0477
 RDE -.1666 RRA .0833 RC3 -.1275 FAU .03566
 FDE 2.0484 FRA 2.6113 FC3 -1.1095 BSP 9302
 BOE 1.1717 BRA 2.0066 BC3 .1281 FSP -1040

MID-COURSE EXECUTION ACCURACY

SGT 2786.7 SGR 248.0 SG3 354.1
 RRT -.0445 RRF .0879 RTF -.9513
 SGB 2797.7 R23 -.0453 R13 .9513
 SG1 2786.7 SG2 247.8 THA 179.77

ORBIT DETERMINATION ACCURACY

ST 1463.9 SR 183.6 SS 1494.6
 CRT .7620 CRS .8352 CST .9924
 LSA 2093.3 MSA 169.0 SSA 13.5
 EL1 1470.6 EL2 118.4 ALF 5.50

LAUNCH DATE DEC 2 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 348.949

RL 147.47 LAL -.00 LOL 69.89 VL 27.165 GAL 6.81 AZL 86.07 MCA 145.33 SMA 124.97 ECC .21454 INC 3.9284 V1 30.211
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.320 GAP -9.70 AZP 93.23 TAL 153.24 TAP 298.56 RCA 98.16 APO 151.79 V2 35.047
 RC 44.838 GL 21.04 GP -3.68 ZAL 47.30 ZAP 15.36 ETS 15.45 ZAE 165.87 ETE 302.89 ZAC 115.03 ETC 167.92 CLP -14.92

PLANETOCENTRIC CONIC

C3 26.497 VHL 5.147 DLA 29.67 RAL 15.98 RAD 6568.1 VEL 12.160 PTH 2.18 VHP 6.765 DPA 1.98 RAP 21.35 ECC 1.4361
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.75 0 26 42 3848.56 -18.73 155.79 249.46 66.56 1 30 50 3248.6 -21.74 148.31
 99.25 2 57 41 3361.17 -18.72 119.97 249.46 66.55 3 53 42 2761.2 -21.73 112.49
 100.00 3 34 11 3244.48 -21.41 112.49 250.64 68.63 4 28 16 2644.5 -24.13 104.74
 100.00 2 32 53 3440.48 -16.08 124.60 248.20 64.46 3 30 13 2840.5 -19.39 117.36
 110.00 6 23 22 2714.15 -31.56 75.89 254.23 76.12 7 8 36 2114.1 -33.14 67.02
 110.00 2 0 12 3543.58 -6.82 127.01 242.85 56.42 2 59 15 2943.6 -11.19 120.64

DIFFERENTIAL CORRECTIONS

TDE-1.1668 TRA-1.9517 TC3 .0617 BAU .0518
 RDE -.1365 RRA .0854 RC3 -.1327 FAU .03887
 FDE 2.2386 FRA 2.7599 FC3 -1.2699 BSP 9669
 BOE 1.1747 BRA 1.9536 BC3 .1464 FSP -1167

MID-COURSE EXECUTION ACCURACY

SGT 2818.1 SGR 231.8 SG3 390.4
 RRT -.1300 RRF .1785 RTF -.9548
 SGB 2827.6 R23 -.0540 R13 .9549
 SG1 2818.3 SG2 229.8 THA 179.38

ORBIT DETERMINATION ACCURACY

ST 1499.8 SR 155.5 SS 1582.9
 CRT .7405 CRS .8159 CST .9926
 LSA 2179.9 MSA 163.8 SSA 12.6
 EL1 1504.2 EL2 104.2 ALF 4.41

LAUNCH DATE DEC 2 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 355.658

RL 147.47 LAL -.00 LOL 69.89 VL 27.244 GAL 6.57 AZL 86.00 MCA 148.54 SMA 125.49 ECC .20827 INC 4.0009 V1 30.211
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.366 GAP -9.06 AZP 93.41 TAL 153.26 TAP 301.80 RCA 99.35 APO 151.62 V2 35.033
 RC 45.818 GL 22.04 GP -4.24 ZAL 47.75 ZAP 17.44 ETS 15.63 ZAE 164.65 ETE 309.14 ZAC 116.33 ETC 168.18 CLP -16.93

PLANETOCENTRIC CONIC

C3 25.319 VHL 5.032 DLA 30.54 RAL 15.39 RAD 6568.0 VEL 12.112 PTH 2.17 VHP 6.418 DPA 1.94 RAP 22.67 ECC 1.4167
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.05 0 4 0 3902.23 -19.56 160.17 248.38 66.07 1 9 2 3302.2 -22.63 152.67
 101.95 3 15 44 3285.00 -19.55 114.68 248.37 66.05 4 10 29 2685.0 -22.62 107.18
 78.05 0 4 0 3902.23 -19.56 160.17 248.38 66.07 1 9 2 3302.2 -22.63 152.67
 101.95 3 15 44 3285.00 -19.55 114.68 248.37 66.05 4 10 29 2685.0 -22.62 107.18
 110.00 6 7 51 2746.82 -31.00 78.27 252.86 74.81 6 53 38 2146.8 -32.77 69.50
 110.00 2 11 3 3488.41 -8.89 124.07 242.40 56.86 3 9 11 2888.4 -13.19 117.62

DIFFERENTIAL CORRECTIONS

TDE-1.0699 TRA-1.7906 TC3 .2773 BAU .1047
 RDE -.1027 RRA .0922 RC3 -.1374 FAU .04667
 FDE 2.3621 FRA 2.8239 FC3 -1.5957 BSP 12520
 BOE 1.0748 BRA 1.7930 BC3 .3094 FSP -1498

MID-COURSE EXECUTION ACCURACY

SGT 2677.1 SGR 218.3 SG3 421.1
 RRT -.3158 RRF .3406 RTF -.9630
 SGB 2686.0 R23 -.0365 R13 .9630
 SG1 2678.0 SG2 207.0 THA 178.52

ORBIT DETERMINATION ACCURACY

ST 1410.2 SR 122.6 SS 1615.7
 CRT .6738 CRS .7654 CST .9911
 LSA 2141.7 MSA 164.6 SSA 10.2
 EL1 1412.6 EL2 90.5 ALF 3.37

LAUNCH DATE DEC 2 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -0.00 LOL 69.89 VL 27.317 GAL 6.34 AZL 85.91 MCA 151.74 SMA 125.96 ECC .20252 INC 4.0879 V1 30.211
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.406 GAP -8.45 AZP 93.60 TAL 153.29 TAP 305.03 RCA 100.45 APO 151.47 V2 35.020
 RC 46.944 GL 23.10 GP -4.94 ZAL 48.24 ZAP 19.63 ETS 16.06 ZAE 163.35 ETE 313.54 ZAC 117.57 ETC 168.54 CLP -19.02

PLANETOCENTRIC CONIC

C3 24.328 VHL 4.932 OLA 31.47 RAL 14.77 RAD 6568.0 VEL 12.071 PTH 2.16 VHP 6.088 DPA 1.74 RAP 23.97 ECC 1.4004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.67 23 40 38 3945.89 -20.40 163.86 247.38 65.51 24 46 24 3345.9 -23.53 156.34
 104.33 3 30 12 3221.69 -20.38 110.32 247.37 65.49 4 23 53 2621.7 -23.52 102.79
 75.67 23 40 38 3945.89 -20.40 163.86 247.38 65.51 24 46 24 3345.9 -23.53 156.34
 104.33 3 30 12 3221.69 -20.38 110.32 247.37 65.49 4 23 53 2621.7 -23.52 102.79
 110.00 5 49 29 2788.92 -30.21 81.30 251.46 73.18 6 35 58 2188.9 -32.21 72.66
 110.00 2 24 27 3426.66 -11.17 120.75 242.17 57.48 3 21 34 2826.7 -15.38 114.17

DIFFERENTIAL CORRECTIONS

TDE-1.2371 TRA-1.8908 TC3 .0698 BAU .0534 SGT 2949.7 SGR 216.0 SG3 482.6 ST 1631.5 SR 88.5 SS 1822.8
 RDE -.0673 RRA .1012 RC3 -.1488 FAU .04997 RRT -.3968 RRF .4706 RTF -.9587 CRT .5562 CRS -.6447 CST .9937
 FDE 2.7686 FRA 3.1559 FC3-1.5646 BSP 8991 SGB 2957.6 R23 -.0964 R13 .9589 LSA 2443.1 MSA 153.5 SSA 11.0
 BOE 1.2389 BRA 1.8935 BC3 .1643 FSP -1361 SG1 2951.0 SG2 198.2 TMA 178.33 EL1 1632.3 EL2 73.5 ALF 1.73

LAUNCH DATE DEC 2 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -0.00 LOL 69.89 VL 27.384 GAL 6.13 AZL 85.80 MCA 154.94 SMA 126.40 ECC .19719 INC 4.1951 V1 30.211
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.443 GAP -7.85 AZP 93.80 TAL 153.35 TAP 308.30 RCA 101.47 APO 151.32 V2 35.007
 RC 48.205 GL 24.27 GP -5.85 ZAL 48.82 ZAP 22.00 ETS 16.76 ZAE 162.03 ETE 316.25 ZAC 118.73 ETC 169.04 CLP -21.25

PLANETOCENTRIC CONIC

C3 23.487 VHL 4.846 DLA 32.46 RAL 14.05 RAD 6568.0 VEL 12.036 PTH 2.15 VHP 5.772 DPA 1.31 RAP 25.22 ECC 1.3865
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.42 23 22 32 3984.82 -21.25 167.24 246.38 64.86 24 28 57 3384.8 -24.46 159.70
 106.58 3 42 31 3165.53 -21.24 106.47 246.38 64.85 4 35 17 2565.5 -24.44 98.93
 73.42 23 22 32 3984.82 -21.25 167.24 246.38 64.86 24 28 57 3384.8 -24.46 159.70
 106.58 3 42 31 3165.53 -21.24 106.47 246.38 64.85 4 35 17 2565.5 -24.44 98.93
 110.00 5 25 51 2846.74 -29.00 85.36 249.84 71.05 6 13 18 2246.7 -31.31 76.92
 110.00 2 42 19 3351.61 -13.88 116.62 242.22 58.44 3 38 10 2751.6 -17.95 109.88

DIFFERENTIAL CORRECTIONS

TDE-1.2376 TRA-1.8184 TC3 .1280 BAU .0645 SGT 2940.8 SGR 228.9 SG3 532.9 ST 1650.8 SR 57.3 SS 1937.4
 RDE -.0238 RRA .1182 RC3 -.1605 FAU .04854 RRT -.5942 RRF .6679 RTF -.9617 CRT .0338 CRS .1434 CST .9937
 FDE 3.0630 FRA 3.3413 FC3-1.7892 BSP 9460 SGB 2949.7 R23 -.1172 R13 .9620 LSA 2541.4 MSA 151.4 SSA 9.6
 BOE 1.2378 BRA 1.8222 BC3 .2053 FSP -1549 SG1 2944.0 SG2 183.9 TMA 177.34 EL1 1650.8 EL2 57.2 ALF .07

LAUNCH DATE DEC 2 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -0.00 LOL 69.89 VL 27.445 GAL 5.93 AZL 85.67 MCA 158.14 SMA 126.80 ECC .19229 INC 4.3312 V1 30.211
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.475 GAP -7.27 AZP 94.02 TAL 153.43 TAP 311.57 RCA 102.42 APO 151.18 V2 34.994
 RC 49.590 GL 25.56 GP -7.03 ZAL 49.49 ZAP 24.56 ETS 17.78 ZAE 160.70 ETE 317.41 ZAC 119.82 ETC 169.73 CLP -23.60

PLANETOCENTRIC CONIC

C3 22.825 VHL 4.778 DLA 33.57 RAL 13.22 RAD 6567.9 VEL 12.008 PTH 2.14 VHP 5.474 DPA .55 RAP 26.47 ECC 1.3756
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.17 23 4 52 4022.21 -22.13 170.57 245.44 64.09 24 11 54 3422.2 -25.43 163.02
 108.83 3 53 34 3114.21 -22.12 102.97 245.43 64.08 4 45 29 2514.2 -25.42 95.42
 71.17 23 4 52 4022.21 -22.13 170.57 245.44 64.09 24 11 54 3422.2 -25.43 163.02
 108.83 3 53 34 3114.21 -22.12 102.97 245.43 64.08 4 45 29 2514.2 -25.42 95.42
 110.00 4 49 46 2942.26 -26.71 91.85 247.68 67.83 5 38 48 2342.3 -29.48 83.76
 110.00 3 11 47 3242.16 -17.68 110.42 242.94 60.26 4 5 49 2642.2 -21.50 103.38

DIFFERENTIAL CORRECTIONS

TDE-1.2507 TRA-1.7527 TC3 .1641 BAU .0737 SGT 2939.0 SGR 269.7 SG3 590.1 ST 1680.0 SR 71.8 SS 2073.0
 RDE .0299 RRA .1437 RC3 -.1773 FAU .05298 RRT -.7595 RRF .8301 RTF -.9639 CRT -.8350 CRS -.7708 CST .9939
 FDE 3.4236 FRA 3.5502 FC3-2.0094 BSP 9614 SGB 2951.4 R23 -.1467 R13 .9645 LSA 2665.0 MSA 150.2 SSA 8.2
 BOE 1.2510 BRA 1.7586 BC3 .2415 FSP -1732 SG1 2946.2 SG2 175.0 TMA 176.00 EL1 1681.1 EL2 39.5 ALF 177.95

LAUNCH DATE DEC 2 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -0.00 LOL 69.89 VL 27.500 GAL 5.75 AZL 85.49 MCA 161.34 SMA 127.17 ECC .18781 INC 4.5114 V1 30.211
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.503 GAP -6.71 AZP 94.28 TAL 153.51 TAP 314.85 RCA 103.29 APO 151.05 V2 34.980
 RC 51.091 GL 27.06 GP -8.65 ZAL 50.28 ZAP 27.39 ETS 19.24 ZAE 159.28 ETE 317.03 ZAC 120.84 ETC 170.71 CLP -26.09

PLANETOCENTRIC CONIC

C3 22.374 VHL 4.730 DLA 34.84 RAL 12.23 RAD 6567.9 VEL 11.990 PTH 2.14 VHP 5.195 DPA -.66 RAP 27.75 ECC 1.3682
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.79 22 46 41 4060.80 -23.06 174.08 244.56 63.12 23 54 21 3460.8 -26.47 166.53
 111.21 4 3 55 3065.92 -23.05 99.69 244.55 63.11 4 55 1 2465.9 -26.46 92.14
 68.79 22 46 41 4060.80 -23.06 174.08 244.56 63.12 23 54 21 3460.8 -26.47 166.53
 111.21 4 3 55 3065.92 -23.05 99.69 244.55 63.11 4 55 1 2465.9 -26.46 92.14
 68.79 22 46 41 4060.80 -23.06 174.08 244.56 63.12 23 54 21 3460.8 -26.47 166.53
 111.21 4 3 55 3065.92 -23.05 99.69 244.55 63.11 4 55 1 2465.9 -26.46 92.14

DIFFERENTIAL CORRECTIONS

TDE-1.2673 TRA-1.6817 TC3 .1926 BAU .0834 SGT 2924.0 SGR 350.7 SG3 652.7 ST 1706.2 SR 146.1 SS 2224.8
 RDE .1006 RRA .1815 RC3 -.2017 FAU .05767 RRT -.8646 RRF .9281 RTF -.9657 CRT -.9908 CRS -.9710 CST .9940
 FDE 3.8533 FRA 3.7622 FC3-2.2313 BSP 9717 SGB 2945.0 R23 -.1794 R13 .9668 LSA 2803.5 MSA 150.5 SSA 6.8
 BOE 1.2713 BRA 1.6914 BC3 .2789 FSP -1932 SG1 2939.8 SG2 175.2 TMA 174.06 EL1 1712.3 EL2 19.7 ALF 175.15

LAUNCH DATE DEC 2 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 388.984

RL 147.47 LAL -.00 LOL 69.89 VL 27.550 GAL 5.58 AZL 85.24 MCA 164.54 SMA 127.51 ECC .18372 INC 4.7626 V1 30.211
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.528 GAP -6.16 AZP 94.59 TAL 153.60 TAP 318.14 RCA 104.08 APO 150.93 V2 34.967
 RC 52.697 GL 28.89 GP -10.95 ZAL 51.26 ZAP 30.58 ETS 21.33 ZAE 157.57 ETE 314.96 ZAC 121.80 ETC 172.16 CLP -28.73

PLANETOCENTRIC CONIC

C3 22.204 VHL 4.712 DLA 36.39 RAL 11.01 RAD 6567.9 VEL 11.983 PTH 2.14 VHP 4.943 DPA -2.56 RAP 29.16 ECC 1.3654
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.12 22 26 55 4103.49 -24.06 178.05 243.75 61.83 23 35 19 3503.5 -27.62 170.51
 113.88 4 13 55 3019.52 -24.04 96.57 243.74 61.82 5 4 14 2419.5 -27.61 89.03
 66.12 22 26 55 4103.49 -24.06 178.05 243.75 61.83 23 35 19 3503.5 -27.62 170.51
 113.88 4 13 55 3019.52 -24.04 96.57 243.74 61.82 5 4 14 2419.5 -27.61 89.03
 66.12 22 26 55 4103.49 -24.06 178.05 243.75 61.83 23 35 19 3503.5 -27.62 170.51
 113.88 4 13 55 3019.52 -24.04 96.57 243.74 61.82 5 4 14 2419.5 -27.61 89.03

DIFFERENTIAL CORRECTIONS

TDE-1.2938 TRA-1.6065 TC3 .2060 BAU .0933
 ROE .2014 RRA .2380 RC3 -.2372 FAU .06213
 FDE 4.3758 FRA 3.9630 FC3-2.4225 BSP 9720
 BDE 1.3094 BRA 1.6240 BC3 .3142 FSP -2135

MID-COURSE EXECUTION ACCURACY

SGT 2898.5 SGR 489.1 SG3 719.5
 RRT -.9178 RRF .9736 RTF -.9669
 SGB 2939.5 R23 -.2071 R13 .9691
 SG1 2933.2 SG2 191.9 THA 171.16

ORBIT DETERMINATION ACCURACY

ST 1733.5 SR 267.7 SS 2398.5
 CRT -.9996 CRS -.9959 CST .9941
 LSA 2967.5 MSA 152.6 SSA 5.3
 EL1 1754.0 EL2 7.6 ALF 171.22

LAUNCH DATE DEC 2 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 395.586

RL 147.47 LAL -.00 LOL 69.89 VL 27.596 GAL 5.43 AZL 84.86 MCA 167.73 SMA 127.82 ECC .18003 INC 5.1405 V1 30.211
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.549 GAP -5.62 AZP 95.02 TAL 153.69 TAP 321.42 RCA 104.81 APO 150.83 V2 34.954
 RC 54.398 GL 31.28 GP -14.44 ZAL 52.57 ZAP 34.37 ETS 24.39 ZAE 155.11 ETE 310.96 ZAC 122.72 ETC 174.44 CLP -31.53

PLANETOCENTRIC CONIC

C3 22.478 VHL 4.741 DLA 38.40 RAL 9.36 RAD 6567.9 VEL 11.994 PTH 2.14 VHP 4.732 DPA -5.62 RAP 30.89 ECC 1.3699
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.90 22 3 46 4154.96 -25.16 182.92 243.03 59.98 23 13 1 3555.0 -28.95 175.42
 117.10 4 23 54 2974.00 -25.15 93.54 243.02 59.97 5 13 28 2374.0 -28.94 86.04
 62.90 22 3 46 4154.96 -25.16 182.92 243.03 59.98 23 13 1 3555.0 -28.95 175.42
 117.10 4 23 54 2974.00 -25.15 93.54 243.02 59.97 5 13 28 2374.0 -28.94 86.04
 62.90 22 3 46 4154.96 -25.16 182.92 243.03 59.98 23 13 1 3555.0 -28.95 175.42
 117.10 4 23 54 2974.00 -25.15 93.54 243.02 59.97 5 13 28 2374.0 -28.94 86.04

DIFFERENTIAL CORRECTIONS

TDE-1.3364 TRA-1.5221 TC3 .2073 BAU .1070
 ROE .3600 RRA .3237 RC3 -.2895 FAU .06592
 FDE 5.0087 FRA 4.0997 FC3-2.5390 BSP 9734
 BDE 1.3840 BRA 1.5561 BC3 .3561 FSP -2331

MID-COURSE EXECUTION ACCURACY

SGT 2855.9 SGR 716.8 SG3 784.3
 RRT -.9419 RRF .9913 RTF -.9677
 SGB 2944.4 R23 -.2191 R13 .9721
 SG1 2935.1 SG2 234.2 THA 166.61

ORBIT DETERMINATION ACCURACY

ST 1761.8 SR 460.2 SS 2593.3
 CRT -.9967 CRS -.9996 CST .9942
 LSA 3164.9 MSA 157.0 SSA 3.9
 EL1 1820.6 EL2 36.0 ALF 165.40

LAUNCH DATE DEC 2 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 402.166

RL 147.47 LAL -.00 LOL 69.89 VL 27.637 GAL 5.30 AZL 84.22 MCA 170.92 SMA 128.09 ECC .17670 INC 5.7787 V1 30.211
 RP 108.45 LAP .91 LOP 240.85 VP 37.568 GAP -5.10 AZP 95.71 TAL 153.78 TAP 324.70 RCA 105.46 APO 150.73 V2 34.942
 RC 56.186 GL 34.73 GP -20.21 ZAL 54.55 ZAP 39.30 ETS 29.10 ZAE 150.79 ETE 304.93 ZAC 123.58 ETC 178.36 CLP -34.45

PLANETOCENTRIC CONIC

C3 23.649 VHL 4.863 DLA 41.28 RAL 6.82 RAD 6568.0 VEL 12.043 PTH 2.15 VHP 4.604 DPA -10.81 RAP 33.44 ECC 1.3892
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.61 21 33 51 4223.37 -26.39 189.53 242.43 57.03 22 44 14 3623.4 -30.53 182.16
 121.39 4 33 35 2930.34 -26.37 90.69 242.41 57.02 5 22 26 2330.3 -30.52 83.32
 58.61 21 33 51 4223.37 -26.39 189.53 242.43 57.03 22 44 14 3623.4 -30.53 182.16
 121.39 4 33 35 2930.34 -26.37 90.69 242.41 57.02 5 22 26 2330.3 -30.52 83.32
 58.61 21 33 51 4223.37 -26.39 189.53 242.43 57.03 22 44 14 3623.4 -30.53 182.16
 121.39 4 33 35 2930.34 -26.37 90.69 242.41 57.02 5 22 26 2330.3 -30.52 83.32

DIFFERENTIAL CORRECTIONS

TDE-1.4205 TRA-1.4231 TC3 .1929 BAU .1305
 ROE .6458 RRA .4554 RC3 -.3648 FAU .06740
 FDE 5.7524 FRA 4.0360 FC3-2.4672 BSP 9959
 BDE 1.5604 BRA 1.4942 BC3 .4127 FSP -2487

MID-COURSE EXECUTION ACCURACY

SGT 2795.3 SGR 1102.2 SG3 827.5
 RRT -.9520 RRF .9972 RTF -.9678
 SGB 3004.8 R23 -.2089 R13 .9770
 SG1 2988.2 SG2 315.5 THA 159.18

ORBIT DETERMINATION ACCURACY

ST 1802.5 SR 790.6 SS 2799.9
 CRT -.9943 CRS -1.0000 CST .9942
 LSA 3418.5 MSA 164.6 SSA 2.5
 EL1 1966.7 EL2 77.0 ALF 156.40

LAUNCH DATE DEC 2 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 408.722

RL 147.47 LAL -.00 LOL 69.89 VL 27.673 GAL 5.18 AZL 82.90 MCA 174.10 SMA 128.34 ECC .17373 INC 7.0968 V1 30.211
 RP 108.49 LAP .73 LOP 244.03 VP 37.583 GAP -4.59 AZP 97.06 TAL 153.87 TAP 327.97 RCA 106.05 APO 150.64 V2 34.929
 RC 58.051 GL 40.55 GP -31.10 ZAL 58.12 ZAP 47.03 ETS 36.84 ZAE 141.60 ETE 297.59 ZAC 123.99 ETC 186.12 CLP -37.24

PLANETOCENTRIC CONIC

C3 27.432 VHL 5.238 DLA 45.97 RAL 1.98 RAD 6568.1 VEL 12.199 PTH 2.19 VHP 4.735 DPA -20.62 RAP 38.39 ECC 1.4515
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.14 20 48 41 4328.99 -27.44 199.86 241.87 51.54 22 0 50 3729.0 -32.22 192.87
 127.86 4 40 7 2897.96 -27.43 88.63 241.86 51.54 5 28 25 2298.0 -32.21 81.65
 52.14 20 48 41 4328.99 -27.44 199.86 241.87 51.54 22 0 50 3729.0 -32.22 192.87
 127.86 4 40 7 2897.96 -27.43 88.63 241.86 51.54 5 28 25 2298.0 -32.21 81.65
 52.14 20 48 41 4328.99 -27.44 199.86 241.87 51.54 22 0 50 3729.0 -32.22 192.87
 127.86 4 40 7 2897.96 -27.43 88.63 241.86 51.54 5 28 25 2298.0 -32.21 81.65

DIFFERENTIAL CORRECTIONS

TDE-1.6559 TRA-1.3076 TC3 .1437 BAU .1706
 ROE 1.2887 RRA .6499 RC3 -.4425 FAU .05947
 FDE 6.4643 FRA 3.4184 FC3-1.8768 BSP 10708
 BDE 2.0983 BRA 1.4602 BC3 .4652 FSP -2382

MID-COURSE EXECUTION ACCURACY

SGT 2746.0 SGR 1802.4 SG3 786.3
 RRT -.9555 RRF .9989 RTF -.9676
 SGB 3284.7 R23 -.1653 R13 .9861
 SG1 3253.9 SG2 448.8 THA 147.20

ORBIT DETERMINATION ACCURACY

ST 1913.8 SR 1442.8 SS 2967.7
 CRT -.9935 CRS -.9999 CST .9946
 LSA 3810.6 MSA 176.2 SSA 1.3
 EL1 2393.1 EL2 131.7 ALF 143.04

LAUNCH DATE DEC 2 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -.00 LOL 69.89 VL 27.706 GAL 5.08 AZL 78.53 HCA 177.27 SMA 128.57 ECC .17111 INC11.4716 V1 30.211
 RP 108.53 LAP .54 LOP 247.21 VP 37.596 GAP -4.10 AZP 101.46 TAL 153.93 TAP 331.20 RCA 106.57 APO 150.57 V2 34.917
 RC 59.985 GL 52.75 GP -55.42 ZAL 66.76 ZAP 63.15 ETS 51.64 ZAE 118.76 ETE 294.75 ZAC 120.94 ETC 205.78 CLP -37.27

PLANETOCENTRIC CONIC

C3 47.528 VHL 6.894 DLA 54.58 RAL 347.88 RAD 6568.8 VEL 12.996 PTH 2.37 VHP 6.423 DPA -41.23 RAP 53.83 ECC 1.7822
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.17 19 17 7 4550.78 -24.39 219.10 239.09 39.52 20 32 58 3950.8 -30.44 213.62
 138.83 4 19 12 2952.78 -24.37 90.86 239.07 39.51 5 8 25 2352.8 -30.43 85.38
 41.17 19 17 7 4550.78 -24.39 219.10 239.09 39.52 20 32 58 3950.8 -30.44 213.62
 138.83 4 19 12 2952.78 -24.37 90.86 239.07 39.51 5 8 25 2352.8 -30.43 85.38
 41.17 19 17 7 4550.78 -24.39 219.10 239.09 39.52 20 32 58 3950.8 -30.44 213.62
 138.83 4 19 12 2952.78 -24.37 90.86 239.07 39.51 5 8 25 2352.8 -30.43 85.38

DIFFERENTIAL CORRECTIONS

TDE -2.8942 TRA -1.1351 TC3 .0396 BAU .2006
 ROE 3.2938 RRA .6439 RC3 -.3133 FAU .02439
 FDE 5.6869 FRA 1.3473 FC3 -.4443 BSP 13655
 BOE 4.3846 BRA 1.3050 BC3 .3157 FSP -1461

MID-COURSE EXECUTION ACCURACY

SGT 2904.8 SGR 2921.1 SG3 444.3
 RRT -.9559 RRF .9976 RTF -.9738
 SGB 4119.5 R23 -.0795 R13 .9968
 SG1 4073.9 SG2 611.7 THA 134.83

ORBIT DETERMINATION ACCURACY

ST 2454.4 SR 2751.4 SS 2642.6
 CRT -.9951 CRS -.9998 CST .9969
 LSA 4532.3 MSA 188.7 SSA .6
 EL1 3682.6 EL2 182.2 ALF 131.72

LAUNCH DATE DEC 2 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -.00 LOL 69.89 VL 27.735 GAL 4.95 AZL 125.13 HCA 180.62 SMA 128.77 ECC .16849 INC35.1318 V1 30.211
 RP 108.57 LAP .36 LOP 250.39 VP 37.606 GAP -3.57 AZP 54.87 TAL 154.14 TAP 334.76 RCA 107.07 APO 150.47 V2 34.906
 RC 61.981 GL -63.11 GP 75.39 ZAL 81.41 ZAP 83.94 ETS 212.51 ZAE 85.72 ETE 335.73 ZAC 85.33 ETC 50.09 CLP 65.28

PLANETOCENTRIC CONIC

C3 317.857 VHL 17.829 DLA -55.17 RAL 37.63 RAD 6571.8 VEL 20.956 PTH 3.19 VHP 24.149 DPA 74.31 RAP 242.62 ECC 6.2311
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.45 10 35 21 2277.11 4.53 64.76 304.45 145.05 11 13 18 1677.1 11.07 60.52
 139.55 19 37 52 669.85 4.55 295.50 304.48 145.05 19 49 2 69.8 11.08 291.26
 40.45 10 35 21 2277.11 4.53 64.76 304.45 145.05 11 13 18 1677.1 11.07 60.52
 139.55 19 37 52 669.85 4.55 295.50 304.48 145.05 19 49 2 69.8 11.08 291.26
 40.45 10 35 21 2277.11 4.53 64.76 304.45 145.05 11 13 18 1677.1 11.07 60.52
 139.55 19 37 52 669.85 4.55 295.50 304.48 145.05 19 49 2 69.8 11.08 291.26

DIFFERENTIAL CORRECTIONS

TDE 2.0508 TRA -5.4520 TC3 -.1918 BAU 1.1491
 ROE .7200 RRA 5.7463 RC3 .1906 FAU -.02270
 FDE -.2351 FRA 1.8018 FC3 .0618 BSP 15486
 BOE 2.1736 BRA 7.9211 BC3 .2704 FSP -311

MID-COURSE EXECUTION ACCURACY

SGT 3211.6 SGR 3312.3 SG3 89.9
 RRT -.9619 RRF .9898 RTF -.9910
 SGB 4613.7 R23 .0087 R13 1.0000
 SG1 4569.6 SG2 636.3 THA 134.08

ORBIT DETERMINATION ACCURACY

ST 1132.2 SR 997.5 SS 654.1
 CRT -.6559 CRS -.8881 CST .9294
 LSA 1523.4 MSA 619.8 SSA .3
 EL1 1375.9 EL2 619.6 ALF 140.48

LAUNCH DATE DEC 2 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -.00 LOL 69.89 VL 27.760 GAL 4.90 AZL 92.61 HCA 183.69 SMA 128.94 ECC .16670 INC 2.6064 V1 30.211
 RP 108.60 LAP .17 LOP 253.57 VP 37.614 GAP -3.13 AZP 87.40 TAL 154.09 TAP 337.77 RCA 107.45 APO 150.44 V2 34.894
 RC 64.032 GL -18.84 GP 49.63 ZAL 47.42 ZAP 64.05 ETS 328.27 ZAE 132.49 ETE 76.27 ZAC 97.64 ETC 150.46 CLP -47.52

PLANETOCENTRIC CONIC

C3 15.202 VHL 3.899 DLA -7.70 RAL 30.47 RAD 6567.6 VEL 11.687 PTH 2.06 VHP 5.148 DPA 51.23 RAP 356.39 ECC 1.2502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 37 1 1909.81 -11.20 23.04 246.57 116.18 10 8 51 1309.8 -7.59 16.21
 90.00 19 39 5 5035.96 23.44 221.99 249.51 73.64 21 3 1 4436.0 20.97 214.19
 100.00 10 54 40 1659.35 -12.15 4.13 246.07 117.52 11 22 19 1059.4 -8.37 357.38
 100.00 21 4 8 4761.65 24.46 201.48 249.17 72.26 22 23 30 4161.7 21.80 193.69
 110.00 11 54 27 1472.17 -14.66 348.47 244.62 121.23 12 18 59 872.2 -10.42 341.94
 110.00 22 20 51 4521.60 27.18 182.17 248.09 68.42 23 36 12 3921.6 24.00 174.45

DIFFERENTIAL CORRECTIONS

TDE -.4463 TRA -1.2747 TC3 .1653 BAU .2986
 ROE -.4147 RRA -2.1594 RC3 1.4600 FAU .05865
 FDE 1.0247 FRA 4.8438 FC3 -3.3400 BSP 12477
 BOE .6093 BRA 2.5076 BC3 1.4693 FSP -2058

MID-COURSE EXECUTION ACCURACY

SGT 2005.0 SGR 3452.8 SG3 672.8
 RRT .9533 RRF -.9998 RTF -.9544
 SGB 3992.8 R23 -.0715 R13 -.9973
 SG1 3957.7 SG2 528.2 THA 60.45

ORBIT DETERMINATION ACCURACY

ST 867.1 SR 1138.2 SS 1169.8
 CRT .9572 CRS -.9990 CST .9691
 LSA 1836.3 MSA 209.2 SSA 3.0
 EL1 1416.6 EL2 201.6 ALF 53.03

LAUNCH DATE DEC 2 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -.00 LOL 69.89 VL 27.782 GAL 4.84 AZL 89.83 HCA 186.86 SMA 129.10 ECC .16501 INC .1634 V1 30.211
 RP 108.64 LAP -.02 LOP 256.74 VP 37.620 GAP -2.67 AZP 90.17 TAL 154.11 TAP 340.96 RCA 107.79 APO 150.40 V2 34.883
 RC 66.131 GL 1.31 GP 32.83 ZAL 44.09 ZAP 60.11 ETS 340.58 ZAE 149.08 ETE 75.56 ZAC 104.22 ETC 154.62 CLP -53.62

PLANETOCENTRIC CONIC

C3 13.208 VHL 3.634 DLA 11.20 RAL 23.44 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 3.898 DPA 36.03 RAP 6.86 ECC 1.2174
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 0 2474.84 -24.91 58.66 241.43 103.91 7 26 15 1874.8 -22.76 50.66
 90.00 21 35 0 4408.93 6.73 183.69 237.65 62.43 22 48 29 3808.9 2.99 177.01
 100.00 8 11 59 2194.34 -25.95 37.73 241.13 105.38 8 48 33 1594.3 -23.59 29.73
 100.00 22 50 43 4164.66 7.67 165.22 237.14 61.02 24 0 7 3564.7 3.75 158.63
 110.00 9 32 59 1940.88 -28.69 17.52 240.17 109.44 10 5 19 1340.9 -25.77 9.56
 110.00 23 46 12 3990.88 10.13 150.54 235.64 57.18 24 52 43 3390.9 5.74 144.21

DIFFERENTIAL CORRECTIONS

TDE -.4183 TRA -.9759 TC3 .0924 BAU .2284
 ROE -.5463 RRA -1.4167 RC3 1.2901 FAU .10056
 FDE 2.9609 FRA 7.0621 FC3 -6.5914 BSP 10084
 BOE .6881 BRA 1.7202 BC3 1.2934 FSP -3491

MID-COURSE EXECUTION ACCURACY

SGT 1702.7 SGR 2608.6 SG3 1138.3
 RRT .9460 RRF -.9996 RTF -.9451
 SGB 3115.1 R23 -.0980 R13 -.9948
 SG1 3079.8 SG2 467.5 THA 57.46

ORBIT DETERMINATION ACCURACY

ST 810.1 SR 1099.6 SS 1946.5
 CRT .9984 CRS .9992 CST .9997
 LSA 2377.5 MSA 42.2 SSA 15.4
 EL1 1365.3 EL2 36.4 ALF 53.63

LAUNCH DATE DEC 2 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 441.222

RL 147.47 LAL -1.00 LOL 69.89 VL 27.801 GAL 4.79 AZL 88.80 HCA 190.03 SMA 129.23 ECC .16359 INC 1.1965 V1 30.211
 RP 108.67 LAP -.21 LOP 259.91 VP 37.624 GAP -2.21 AZP 91.18 TAL 154.11 TAP 344.14 RCA 108.09 APO 150.37 V2 34.873
 RC 68.274 GL 9.12 GP 24.67 ZAL 44.89 ZAP 61.85 ETS 347.86 ZAE 157.31 ETE 77.47 ZAC 106.30 ETC 157.50 CLP -58.73

PLANETOCENTRIC CONIC

C3 13.347 VHL 3.653 CLA 18.42 RAL 20.37 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 3.471 DPA 28.05 RAP 9.66 ECC 1.2197
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 27 2735.71 -27.89 77.15 241.31 95.14 6 12 3 2135.7 -26.88 68.62
 90.00 22 29 4 4152.62 -1.49 169.34 235.78 61.72 23 38 17 3552.6 -5.26 162.69
 100.00 6 58 51 2437.75 -29.17 55.07 241.16 96.83 7 39 29 1837.7 -27.92 46.49
 100.00 23 39 21 3925.81 -.36 152.04 235.15 60.11 24 44 47 3325.8 -4.33 145.50
 110.00 8 31 11 2148.84 -32.47 32.52 240.55 101.33 9 7 0 1548.8 -30.57 23.82
 110.00 0 27 26 3787.48 2.47 139.78 233.38 55.90 1 30 34 3187.5 -2.02 133.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3593 TRA -.7677 TC3 -.0440 BAU .1830 SGT 1388.8 SGR 2105.0 SG3 1424.2 ST 680.1 SR 981.9 SS 2451.3
 RDE -.5243 RRA -1.0812 RC3 1.0246 FAU .12380 RRT .9261 RRF -.9991 RTF -.9244 CRT .9996 CRS .9987 CST .9975
 FDE 4.5046 FRA 8.2810 FC3 -8.0302 BSP 8321 SGB 2521.9 R23 -.1158 R13 -.9924 LSA 2726.1 MSA 62.0 SSA 12.3
 BDE .6356 BRA 1.3260 BC3 1.0255 FSP -4368 SG1 2482.4 SG2 444.4 THA 57.40 EL1 1194.3 EL2 16.3 ALF 55.30

LAUNCH DATE DEC 2 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 447.649

RL 147.47 LAL -1.00 LOL 69.89 VL 27.817 GAL 4.75 AZL 88.27 HCA 193.21 SMA 129.34 ECC .16244 INC 1.7329 V1 30.211
 RP 108.70 LAP -.40 LOP 263.08 VP 37.626 GAP -1.77 AZP 91.69 TAL 154.09 TAP 347.29 RCA 108.33 APO 150.35 V2 34.862
 RC 70.456 GL 13.15 GP 19.98 ZAL 45.73 ZAP 65.59 ETS 352.43 ZAE 162.18 ETE 83.84 ZAC 106.47 ETC 159.58 CLP -63.91

PLANETOCENTRIC CONIC

C3 13.581 VHL 3.685 CLA 22.12 RAL 18.68 RAD 6567.5 VEL 11.618 PTH 2.04 VHP 3.235 DPA 23.02 RAP 10.15 ECC 1.2235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 35 2897.96 -28.31 88.99 241.33 89.22 5 24 53 2298.0 -28.12 80.33
 90.00 23 5 25 3997.91 -6.44 160.66 235.57 62.37 24 12 3 3397.9 -10.09 153.89
 100.00 6 13 46 2584.58 -29.87 65.92 241.32 91.17 6 56 51 1984.6 -29.39 57.15
 100.00 0 14 50 3786.53 -5.07 144.38 234.82 60.50 1 17 57 3186.5 -8.96 137.75
 110.00 7 54 53 2268.23 -33.70 41.61 241.04 96.08 8 32 42 1668.2 -32.49 32.59
 110.00 0 50 13 3675.64 -1.80 133.94 232.79 55.86 1 51 29 3075.6 -6.27 127.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2573 TRA -.5634 TC3 -.2005 BAU .1603 SGT 1037.3 SGR 1784.9 SG3 1629.8 ST 490.4 SR 864.8 SS 2785.3
 RDE -.4753 RRA -.8914 RC3 .8597 FAU .14044 RRT .8731 RRF -.9981 RTF -.8703 CRT .9970 CRS .9977 CST .9901
 FDE 5.6885 FRA 9.1157 FC3 -8.9528 BSP 6913 SGB 2064.4 R23 -.1217 R13 -.9907 LSA 2956.1 MSA 85.0 SSA 10.5
 BDE .5404 BRA 1.0545 BC3 .8828 FSP -5039 SG1 2015.2 SG2 447.8 THA 61.56 EL1 993.6 EL2 33.1 ALF 60.48

LAUNCH DATE DEC 2 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 454.055

RL 147.47 LAL -1.00 LOL 69.89 VL 27.830 GAL 4.73 AZL 87.94 HCA 196.38 SMA 129.43 ECC .16156 INC 2.0635 V1 30.211
 RP 108.73 LAP -.58 LOP 266.25 VP 37.627 GAP -1.33 AZP 91.98 TAL 154.03 TAP 350.41 RCA 108.52 APO 150.34 V2 34.853
 RC 72.672 GL 15.61 GP 16.92 ZAL 46.34 ZAP 70.23 ETS 355.50 ZAE 165.07 ETE 95.45 ZAC 105.63 ETC 161.18 CLP -69.30

PLANETOCENTRIC CONIC

C3 13.784 VHL 3.713 CLA 24.38 RAL 17.63 RAD 6567.5 VEL 11.626 PTH 2.04 VHP 3.077 DPA 19.36 RAP 9.56 ECC 1.2269
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 59 21 3017.78 -27.89 97.72 241.23 84.87 4 49 39 2417.8 -28.30 89.08
 90.00 23 34 16 3884.60 -9.96 154.20 235.87 63.36 24 39 1 3284.6 -13.46 147.27
 100.00 5 41 32 2688.35 -29.77 73.63 241.38 87.11 6 26 20 2088.3 -29.85 64.83
 100.00 0 38 43 3689.26 -8.29 138.96 234.98 61.18 1 40 12 3089.3 -12.08 132.21
 110.00 7 30 23 2347.80 -34.11 47.79 241.40 92.45 8 9 31 1747.8 -33.39 38.62
 110.00 1 6 21 3602.57 -4.59 130.12 232.71 56.09 2 6 24 3002.6 -9.01 123.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1222 TRA -.3512 TC3 -.3786 BAU .1548 SGT 684.6 SGR 1559.3 SG3 1790.4 ST 259.8 SR 762.3 SS 3025.6
 RDE -.4241 RRA -.7680 RC3 .7495 FAU .15320 RRT .6944 RRF -.9965 RTF -.6882 CRT .9744 CRS .9963 CST .9520
 FDE 6.6349 FRA 9.7610 FC3 -9.6220 BSP 5656 SGB 1703.0 R23 -.1005 R13 -.9914 LSA 3129.4 MSA 100.4 SSA 10.1
 BDE .4414 BRA .8445 BC3 .8398 FSP -5583 SG1 1637.1 SG2 469.2 THA 71.47 EL1 803.4 EL2 55.4 ALF 71.54

LAUNCH DATE DEC 2 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 460.439

RL 147.47 LAL -1.00 LOL 69.89 VL 27.840 GAL 4.72 AZL 87.71 HCA 199.55 SMA 129.50 ECC .16094 INC 2.2893 V1 30.211
 RP 108.76 LAP -.77 LOP 269.42 VP 37.626 GAP -.90 AZP 92.16 TAL 153.95 TAP 353.50 RCA 108.66 APO 150.35 V2 34.844
 RC 74.919 GL 17.25 GP 14.74 ZAL 46.76 ZAP 75.39 ETS 357.70 ZAE 166.23 ETE 111.45 ZAC 104.20 ETC 162.45 CLP -74.88

PLANETOCENTRIC CONIC

C3 13.967 VHL 3.737 CLA 25.91 RAL 16.95 RAD 6567.5 VEL 11.634 PTH 2.04 VHP 2.968 DPA 16.39 RAP 8.35 ECC 1.2299
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 28 20 3117.65 -27.07 104.91 241.07 81.35 4 20 18 2517.7 -27.99 96.37
 90.00 0 3 48 3790.49 -12.78 148.72 236.42 64.52 1 6 59 3190.5 -16.11 141.63
 100.00 5 16 21 2769.44 -29.34 79.62 241.40 83.99 6 2 30 2169.4 -29.86 70.86
 100.00 0 58 29 3613.94 -10.74 134.70 235.36 61.94 1 58 43 3013.9 -14.41 127.84
 110.00 7 12 31 2405.97 -34.18 52.33 241.71 89.76 7 52 37 1806.0 -33.84 43.10
 110.00 1 18 48 3550.17 -6.57 127.36 232.85 56.38 2 17 58 2950.2 -10.95 121.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .0391 TRA -.1285 TC3 -.5752 BAU .1649 SGT 486.2 SGR 1382.6 SG3 1911.8 ST 89.8 SR 669.3 SS 3195.1
 RDE -.3734 RRA -.6773 RC3 .6704 FAU .16337 RRT .0045 RRF -.9940 RTF .0103 CRT -.1952 CRS .9939 CST -.3004
 FDE 7.3738 FRA 10.2387 FC3 -10.1262 BSP 4600 SGB 1465.6 R23 -.0154 R13 -.9940 LSA 3263.8 MSA 111.7 SSA 10.2
 BDE .3755 BRA .6894 BC3 .8834 FSP -6035 SG1 1382.6 SG2 486.2 THA 89.90 EL1 669.5 EL2 88.1 ALF 91.53

LAUNCH DATE DEC 2 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -.00 LOL 69.89 VL 27.848 GAL 4.73 AZL 87.55 MCA 202.72 SMA 129.56 ECC .16056 INC 2.4541 V1 30.211
 RP 108.78 LAP -.95 LOP 272.59 VP 37.625 GAP -.48 AZP 92.26 TAL 153.84 TAP 356.56 RCA 108.76 APO 150.36 V2 34.835
 RC 77.194 GL 18.42 GP 13.06 ZAL 47.03 ZAP 80.85 ETS 359.35 ZAE 165.66 ETE 128.29 ZAC 102.39 ETC 163.48 CLP -80.60

PLANETOCENTRIC CONIC

C3 14.146 VHL 3.761 OLA 27.01 RAL 16.51 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 2.895 DPA 13.81 RAP 6.77 ECC 1.2328
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 59 41 3210.65 -25.95 111.49 240.85 78.24 3 53 12 2610.6 -27.31 103.09
 90.00 0 29 0 3703.11 -15.28 143.52 237.16 65.87 1 30 43 3103.1 -18.41 136.25
 100.00 4 55 28 2837.44 -28.75 84.59 241.42 81.44 5 42 45 2237.4 -29.63 75.90
 100.00 1 15 55 3551.55 -12.71 131.12 235.89 62.72 2 15 6 2951.5 -16.27 124.14
 110.00 6 58 54 2451.19 -34.11 55.86 242.01 87.67 7 39 45 1851.2 -34.06 46.62
 110.00 1 28 58 3510.56 -8.06 125.26 233.13 56.67 2 27 28 2910.6 -12.39 118.84

DIFFERENTIAL CORRECTIONS

TDE .2200 TRA .1029 TC3 -.7872 BAU .1880 SGT 702.8 SGR 1233.6 SG3 1993.9 ST 339.8 SR 582.7 SS 3306.7
 RDE -.2326 RRA -.6050 RC3 .6070 FAU .17060 RRT -.7124 RRF -.9904 RTF .7316 CRT -.9185 CRS .9902 CST -.9644
 FDE 7.9147 FRA10.5519 FC-10.4408 BSP 3954 SGB 1419.8 R23 .1174 R13 -.9841 LSA 3372.6 MSA 120.7 SSA 10.4
 BDE .3913 BRA .6137 BC3 .9941 FSP -6385 SG1 1345.9 SG2 452.1 THA 115.12 EL1 664.1 EL2 117.8 ALF 119.18

LAUNCH DATE DEC 2 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -.00 LOL 69.89 VL 27.854 GAL 4.75 AZL 87.42 MCA 205.89 SMA 129.60 ECC .16043 INC 2.5800 V1 30.211
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.621 GAP -.06 AZP 92.32 TAL 153.68 TAP 359.58 RCA 108.81 APO 150.39 V2 34.827
 RC 79.493 GL 19.27 GP 11.69 ZAL 47.18 ZAP 86.47 ETS .61 ZAE 163.71 ETE 142.22 ZAC 100.36 ETC 164.31 CLP -86.39

PLANETOCENTRIC CONIC

C3 14.335 VHL 3.786 OLA 27.85 RAL 16.26 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 2.855 DPA 11.49 RAP 4.98 ECC 1.2359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 40 3312.39 -24.34 118.51 240.52 75.07 3 23 53 2712.4 -26.16 110.31
 90.00 0 57 59 3607.23 -17.86 137.67 238.18 67.65 1 58 6 3007.2 -20.73 130.17
 100.00 4 37 20 2897.64 -28.06 88.93 241.46 79.25 5 25 37 2297.6 -29.26 80.34
 100.00 1 32 1 3497.20 -14.39 127.96 236.54 63.51 2 30 18 2897.2 -17.83 120.85
 110.00 6 48 15 2487.89 -33.98 58.72 242.36 85.99 7 29 43 1887.9 -34.16 49.48
 110.00 1 37 35 3479.73 -9.21 123.61 233.51 56.93 2 35 35 2879.7 -13.50 117.14

DIFFERENTIAL CORRECTIONS

TDE .4150 TRA .3404 TC3-1.0076 BAU .2201 SGT 1147.2 SGR 1102.5 SG3 2036.6 ST 652.4 SR 501.5 SS 3371.5
 RDE -.2750 RRA -.5445 RC3 .5510 FAU .17410 RRT -.8876 RRF -.9851 RTF .9100 CRT -.9492 CRS .9842 CST -.9897
 FDE 8.2688 FRA10.7050 FC-10.5142 BSP 3997 SGB 1591.1 R23 .1684 R13 -.9737 LSA 3468.1 MSA 128.2 SSA 10.5
 BDE .4979 BRA .6421 BC3 1.1484 FSP -6594 SG1 1545.8 SG2 377.0 THA 136.28 EL1 813.0 EL2 126.6 ALF 142.83

LAUNCH DATE DEC 2 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -.00 LOL 69.89 VL 27.858 GAL 4.78 AZL 87.32 MCA 209.06 SMA 129.63 ECC .16053 INC 2.6803 V1 30.211
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.617 GAP .35 AZP 92.34 TAL 153.50 TAP 2.56 RCA 108.82 APO 150.44 V2 34.820
 RC 81.813 GL 19.90 GP 10.54 ZAL 47.22 ZAP 92.13 ETS 1.59 ZAE 160.89 ETE 152.25 ZAC 98.24 ETC 164.96 CLP -92.17

PLANETOCENTRIC CONIC

C3 14.544 VHL 3.814 OLA 28.49 RAL 16.15 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 2.843 DPA 9.37 RAP 3.12 ECC 1.2394
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.71 1 15 23 3552.10 -21.47 135.09 239.73 70.81 2 14 35 2952.1 -23.89 127.24
 93.29 2 10 23 3373.92 -21.46 122.05 239.73 70.79 3 6 37 2773.9 -23.88 114.20
 100.00 4 20 56 2953.47 -27.29 92.90 241.56 77.30 5 10 10 2353.5 -28.76 84.41
 100.00 1 47 31 3447.78 -15.86 125.03 237.29 64.33 2 44 59 2847.8 -19.19 117.82
 110.00 6 39 52 2518.58 -33.80 61.10 242.76 84.59 7 21 50 1918.6 -34.18 51.87
 110.00 1 45 5 3455.44 -10.11 122.30 233.98 57.17 2 42 41 2855.4 -14.36 115.79

DIFFERENTIAL CORRECTIONS

TDE .6172 TRA .5793 TC3-1.2298 BAU .2582 SGT 1649.3 SGR 984.1 SG3 2038.8 ST 974.1 SR 424.5 SS 3390.1
 RDE -.2272 RRA -.4916 RC3 .5007 FAU .17422 RRT -.9284 RRF -.9775 RTF .9573 CRT -.9474 CRS .9742 CST -.9951
 FDE 8.4276 FRA10.6898 FC-10.3710 BSP 4775 SGB 1920.6 R23 .1455 R13 -.9758 LSA 3550.1 MSA 134.7 SSA 10.7
 BDE .6577 BRA .7597 BC3 1.3278 FSP -6678 SG1 1894.0 SG2 318.5 THA 150.08 EL1 1055.2 EL2 125.5 ALF 157.22

LAUNCH DATE DEC 2 1968

FLIGHT TIME 180.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

RL 147.47 LAL -.00 LOL 69.89 VL 27.859 GAL 4.83 AZL 87.24 MCA 212.23 SMA 129.64 ECC .16086 INC 2.7623 V1 30.211
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.612 GAP .76 AZP 92.34 TAL 153.27 TAP 5.50 RCA 108.78 APO 150.49 V2 34.813
 RC 84.153 GL 20.37 GP 9.54 ZAL 47.18 ZAP 97.73 ETS 2.36 ZAE 167.61 ETE 159.14 ZAC 96.14 ETC 165.46 CLP -97.84

PLANETOCENTRIC CONIC

C3 14.779 VHL 3.844 OLA 29.00 RAL 16.16 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 2.859 DPA 7.43 RAP 1.27 ECC 1.2432
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.45 0 48 44 3641.87 -21.76 141.79 240.13 70.34 1 49 26 3041.9 -24.24 133.95
 96.55 2 37 6 3291.29 -21.75 116.09 240.12 70.32 3 31 58 2691.3 -24.23 108.24
 100.00 4 5 26 3007.75 -26.42 96.70 241.70 75.48 4 55 34 2407.7 -28.15 88.33
 100.00 2 3 5 3400.64 -17.23 122.20 238.17 65.19 2 59 46 2800.6 -20.44 114.87
 110.00 6 33 16 2544.81 -33.62 63.12 243.24 83.40 7 15 41 1944.8 -34.16 53.92
 110.00 1 51 44 3436.34 -10.81 121.27 234.54 57.37 2 49 1 2836.3 -15.04 114.72

DIFFERENTIAL CORRECTIONS

TDE .8210 TRA .8161 TC3-1.4444 BAU .2993 SGT 2159.8 SGR 876.6 SG3 2002.6 ST 1293.2 SR 352.2 SS 3365.0
 RDE -.1804 RRA -.4443 RC3 .4560 FAU .17163 RRT -.9356 RRF -.9665 RTF .9750 CRT -.9314 CRS .9565 CST -.9970
 FDE 8.3980 FRA10.5105 FC-10.0538 BSP 6001 SGB 2330.9 R23 .1064 R13 -.9813 LSA 3619.4 MSA 140.5 SSA 10.9
 BDE .8406 BRA .9292 BC3 1.5146 FSP -6655 SG1 2312.9 SG2 289.0 THA 158.86 EL1 1334.5 EL2 124.2 ALF 165.64

LAUNCH DATE DEC 2 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 492.034

RL 147.47 LAL -.00 LOL 69.89 VL 27.859 GAL 4.89 AZL 87.17 MCA 215.39 SMA 129.64 ECC .16143 INC 2.8311 VI 30.211
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.606 GAP 1.17 AZP 92.31 TAL 153.01 TAP 8.40 RCA 108.71 APO 150.56 V2 34.807
 RC 86.508 GL 20.70 GP 8.65 ZAL 47.06 ZAP 103.19 ETS 2.96 ZAE 154.17 ETE 163.88 ZAC 94.15 ETC 165.83 CLP-103.34

PLANETOCENTRIC CONIC

C3 15.046 VHL 3.879 DLA 29.41 RAL 16.27 RAD 6567.6 VEL 11.680 PTH 2.05 VHP 2.900 DPA 5.66 RAP 359.54 ECC 1.2476
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.70 0 35 16 3690.60 -21.96 145.47 240.63 69.93 1 36 46 3090.6 -24.49 137.63
 98.30 2 51 28 3250.57 -21.95 113.16 240.62 69.91 3 45 39 2650.6 -24.48 105.32
 100.00 3 49 45 3063.97 -25.40 100.57 241.86 73.69 4 40 49 2464.0 -27.39 92.33
 100.00 2 19 40 3352.44 -18.59 119.26 239.18 66.16 3 15 33 2752.4 -21.65 111.81
 110.00 6 28 11 2567.61 -33.42 64.88 243.81 82.38 7 10 58 1967.6 -34.12 55.70
 110.00 1 57 44 3421.56 -11.35 120.47 235.18 57.54 2 54 45 2821.6 -15.55 113.89

DIFFERENTIAL CORRECTIONS

TDE 1.0206 TRA 1.0468 TC3-1.6466 BAU .3416
 RDE -.1354 RRA -.4021 RC3 .4152 FAU .16630
 FDE 8.2090 FRA 10.1957 FC3-9.5683 BSP 7431
 BDE 1.0295 BRA 1.1214 BC3 1.6982 FSP -6529

MID-COURSE EXECUTION ACCURACY

SGT 2656.1 SGR 780.2 SG3 1933.9
 RRT -.9281 RRF -.9508 RTF .9831
 SGB 2768.3 R23 .0755 R13 -.9856
 SG1 2754.1 SG2 280.2 THA 164.59

ORBIT DETERMINATION ACCURACY

ST 1599.2 SR 286.2 SS 3304.4
 CRT -.8974 CRS .9239 CST -.9979
 LSA 3679.3 MSA 145.9 SSA 11.0
 EL1 1619.9 EL2 124.7 ALF 170.82

LAUNCH DATE DEC 2 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 498.287

RL 147.47 LAL -.00 LOL 69.89 VL 27.857 GAL 4.97 AZL 87.11 MCA 218.56 SMA 129.62 ECC .16221 INC 2.8899 VI 30.211
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.600 GAP 1.57 AZP 92.26 TAL 152.71 TAP 11.27 RCA 108.60 APO 150.65 V2 34.802
 RC 88.877 GL 20.92 GP 7.86 ZAL 46.86 ZAP 108.42 ETS 3.43 ZAE 150.75 ETE 167.21 ZAC 92.35 ETC 166.08 CLP-108.60

PLANETOCENTRIC CONIC

C3 15.351 VHL 3.918 DLA 29.74 RAL 16.47 RAD 6567.6 VEL 11.693 PTH 2.06 VHP 2.963 DPA 4.09 RAP 357.97 ECC 1.2526
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.52 0 26 53 3724.56 -22.08 148.04 241.24 69.56 1 28 57 3124.6 -24.67 140.20
 99.48 3 1 29 3225.60 -22.07 111.36 241.23 69.55 3 55 15 2625.6 -24.66 103.53
 100.00 3 31 5 3130.99 -24.04 105.09 241.98 71.68 4 23 16 2531.0 -26.32 97.03
 100.00 2 39 57 3294.41 -20.14 115.65 240.42 67.43 3 34 52 2694.4 -23.03 108.04
 110.00 6 24 23 2587.64 -33.23 66.41 244.48 81.49 7 7 30 1987.6 -34.05 57.26
 110.00 2 3 9 3410.53 -11.75 119.87 235.89 57.67 3 0 0 2810.5 -15.94 113.26

DIFFERENTIAL CORRECTIONS

TDE 1.2128 TRA 1.2701 TC3-1.8297 BAU .3834
 RDE -.0929 RRA -.3651 RC3 .3782 FAU .15863
 FDE 7.9037 FRA 9.7865 FC3-8.9463 BSP 8902
 BDE 1.2164 BRA 1.3215 BC3 1.8684 FSP -6302

MID-COURSE EXECUTION ACCURACY

SGT 3126.8 SGR 696.0 SG3 1841.7
 RRT -.9104 RRF -.9290 RTF .9873
 SGB 3203.3 R23 .0551 R13 -.9885
 SG1 3190.8 SG2 282.1 THA 168.45

ORBIT DETERMINATION ACCURACY

ST 1886.6 SR 229.3 SS 3219.3
 CRT -.8318 CRS .8619 CST -.9984
 LSA 3735.3 MSA 150.8 SSA 11.1
 EL1 1896.3 EL2 126.6 ALF 174.20

LAUNCH DATE DEC 2 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 504.518

RL 147.47 LAL -.00 LOL 69.89 VL 27.853 GAL 5.06 AZL 87.06 MCA 221.72 SMA 129.60 ECC .16322 INC 2.9411 VI 30.211
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.593 GAP 1.97 AZP 92.20 TAL 152.38 TAP 14.10 RCA 108.44 APO 150.75 V2 34.797
 RC 91.256 GL 21.06 GP 7.15 ZAL 46.60 ZAP 113.39 ETS 3.80 ZAE 147.46 ETE 169.59 ZAC 90.78 ETC 166.24 CLP-113.58

PLANETOCENTRIC CONIC

C3 15.697 VHL 3.962 DLA 30.00 RAL 16.76 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 3.048 DPA 2.70 RAP 356.61 ECC 1.2583
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.66 0 21 32 3750.36 -22.15 149.98 241.95 69.24 1 24 2 3150.4 -24.77 142.16
 100.34 3 9 9 3209.86 -22.14 110.21 241.94 69.22 4 2 38 2609.9 -24.76 102.39
 79.66 0 21 32 3750.36 -22.15 149.98 241.95 69.24 1 24 2 3150.4 -24.77 142.16
 100.34 3 9 9 3209.86 -22.14 110.21 241.94 69.22 4 2 38 2609.9 -24.76 102.39
 110.00 6 21 44 2605.39 -33.05 67.76 245.24 80.72 7 5 9 2005.4 -33.98 58.64
 110.00 2 8 7 3402.83 -12.03 119.45 236.68 57.76 3 4 50 2802.8 -16.21 112.82

DIFFERENTIAL CORRECTIONS

TDE 1.3963 TRA 1.4864 TC3-1.9870 BAU .4232
 RDE -.0536 RRA -.3331 RC3 .3440 FAU .14872
 FDE 7.5254 FRA 9.3255 FC3-8.2024 BSP 10316
 BDE 1.3974 BRA 1.5233 BC3 2.0165 FSP -5983

MID-COURSE EXECUTION ACCURACY

SGT 3566.1 SGR 624.2 SG3 1734.8
 RRT -.8832 RRF -.8996 RTF .9896
 SGB 3620.3 R23 .0422 R13 -.9902
 SG1 3608.8 SG2 289.3 THA 171.15

ORBIT DETERMINATION ACCURACY

ST 2152.8 SR 184.2 SS 3119.8
 CRT -.7090 CRS .7446 CST -.9986
 LSA 3791.7 MSA 155.5 SSA 11.2
 EL1 2156.7 EL2 129.6 ALF 176.52

LAUNCH DATE DEC 2 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 510.726

RL 147.47 LAL -.00 LOL 69.89 VL 27.848 GAL 5.16 AZL 87.01 MCA 224.88 SMA 129.56 ECC .16446 INC 2.9863 VI 30.211
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.585 GAP 2.36 AZP 92.12 TAL 152.00 TAP 16.89 RCA 108.25 APO 150.87 V2 34.793
 RC 93.644 GL 21.11 GP 6.51 ZAL 46.27 ZAP 118.06 ETS 4.09 ZAE 144.37 ETE 171.32 ZAC 89.48 ETC 166.34 CLP-118.26

PLANETOCENTRIC CONIC

C3 16.088 VHL 4.011 DLA 30.20 RAL 17.13 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 3.153 DPA 1.51 RAP 355.50 ECC 1.2648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.03 0 18 15 3771.06 -22.16 151.53 242.76 68.93 1 21 6 3171.1 -24.82 143.72
 100.97 3 15 21 3200.34 -22.14 109.51 242.75 68.92 4 8 41 2600.3 -24.81 101.70
 79.03 0 18 15 3771.06 -22.16 151.53 242.76 68.93 1 21 6 3171.1 -24.82 143.72
 100.97 3 15 21 3200.34 -22.14 109.51 242.75 68.92 4 8 41 2600.3 -24.81 101.70
 110.00 6 20 7 2621.21 -32.87 68.96 246.10 80.03 7 3 49 2021.2 -33.89 59.87
 110.00 2 12 39 3398.19 -12.20 119.99 237.54 57.82 3 9 17 2798.2 -16.37 112.56

DIFFERENTIAL CORRECTIONS

TDE 1.5671 TRA 1.6927 TC3-2.1215 BAU .4613
 RDE -.0167 RRA -.3051 RC3 .3144 FAU .13836
 FDE 7.0852 FRA 8.8187 FC3-7.4454 BSP 11679
 BDE 1.5672 BRA 1.7200 BC3 2.1447 FSP -5643

MID-COURSE EXECUTION ACCURACY

SGT 3966.7 SGR 564.3 SG3 1617.7
 RRT -.8458 RRF -.8610 RTF .9910
 SGB 4006.7 R23 .0338 R13 -.9913
 SG1 3995.5 SG2 298.9 THA 173.10

ORBIT DETERMINATION ACCURACY

ST 2391.3 SR 153.3 SS 3003.6
 CRT -.4930 CRS .5348 CST -.9988
 LSA 3839.0 MSA 159.9 SSA 11.4
 EL1 2392.5 EL2 133.3 ALF 178.18

LAUNCH DATE DEC 2 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 516.911

RL 147.47 LAL -.00 LOL 69.89 VL 27.842 GAL 5.28 AZL 86.97 HCA 228.04 SMA 129.52 ECC .16592 INC 3.0267 V1 30.211
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.577 GAP 2.76 AZP 92.02 TAL 151.59 TAP 19.64 RCA 108.03 APO 151.00 V2 34.789
 RC 96.038 GL 21.10 GP 5.95 ZAL 45.89 ZAP 122.43 ETS 4.32 ZAE 141.51 ETE 172.61 ZAC 88.46 ETC 166.38 CLP-122.63

PLANETOCENTRIC CONIC

C3 16.530 VHL 4.066 DLA 30.36 RAL 17.57 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 3.274 DPA .50 RAP 354.63 ECC 1.2720
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.57 0 16 35 3788.09 -22.11 152.78 243.66 68.65 1 19 43 3188.1 -24.82 144.99
 101.43 3 20 31 3195.66 -22.10 109.14 243.66 68.64 4 13 46 2595.7 -24.80 101.35
 78.57 0 16 35 3788.09 -22.11 152.78 243.66 68.65 1 19 43 3188.1 -24.82 144.99
 101.43 3 20 31 3195.66 -22.10 109.14 243.66 68.64 4 13 46 2595.7 -24.80 101.35
 110.00 6 19 28 2635.37 -32.69 70.03 247.07 79.42 7 3 23 2035.4 -33.81 60.97
 110.00 2 16 48 3396.38 -12.27 119.09 238.48 57.84 3 13 24 2796.4 -16.43 112.46

DIFFERENTIAL CORRECTIONS

TDE 1.7258 TRA 1.8912 TC3-2.2306 BAU .4970
 RDE .0174 RRA -.2810 RC3 .2884 FAU .12762
 FDE 6.6218 FRA 8.3043 FC3-6.6842 BSP 12953
 BDE 1.7259 BRA 1.9120 BC3 2.2432 FSP -5280

MID-COURSE EXECUTION ACCURACY

SGT 4329.6 SGR 516.0 SG3 1497.9
 RRT -.7982 RRF -.8127 RTF .9918
 SGB 4360.3 R23 .0282 R13 -.9920
 SG1 4349.3 SG2 309.4 THA 174.54

ORBIT DETERMINATION ACCURACY

ST 2603.3 SR 140.0 SS 2880.4
 CRT -.1871 CRS .2329 CST -.9989
 LSA 3881.5 MSA 164.2 SSA 11.5
 EL1 2603.4 EL2 137.6 ALF 179.42

LAUNCH DATE DEC 2 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 523.073

RL 147.47 LAL -.00 LOL 69.89 VL 27.834 GAL 5.42 AZL 86.94 HCA 231.21 SMA 129.46 ECC .16761 INC 3.0633 V1 30.211
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.569 GAP 3.16 AZP 91.92 TAL 151.15 TAP 22.35 RCA 107.76 APO 151.16 V2 34.787
 RC 98.436 GL 21.03 GP 5.44 ZAL 45.45 ZAP 126.49 ETS 4.51 ZAE 138.88 ETE 173.58 ZAC 87.72 ETC 166.40 CLP-126.68

PLANETOCENTRIC CONIC

C3 17.025 VHL 4.126 DLA 30.47 RAL 18.07 RAD 6567.7 VEL 11.765 PTH 2.08 VHP 3.412 DPA -.32 RAP 354.03 ECC 1.2802
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.25 0 16 11 3802.55 -22.02 153.82 244.66 68.39 1 19 33 3202.5 -24.76 146.05
 101.75 3 24 56 3194.78 -22.01 109.04 244.66 68.38 4 18 11 2594.8 -24.75 101.26
 78.25 0 16 11 3802.55 -22.02 153.82 244.66 68.39 1 19 33 3202.5 -24.76 146.05
 101.75 3 24 56 3194.78 -22.01 109.04 244.66 68.38 4 18 11 2594.8 -24.75 101.26
 110.00 6 19 41 2648.09 -32.53 70.99 248.13 78.87 7 3 49 2048.1 -33.72 61.95
 110.00 2 20 36 3397.23 -12.24 119.14 239.48 57.83 3 17 13 2797.2 -16.40 112.50

DIFFERENTIAL CORRECTIONS

TDE 1.8731 TRA 2.0834 TC3-2.3138 BAU .5301
 RDE .0490 RRA -.2604 RC3 .2654 FAU .11678
 FDE 6.1579 FRA 7.8004 FC3-5.9385 BSP 14123
 BDE 1.8737 BRA 2.0996 BC3 2.3290 FSP -4909

MID-COURSE EXECUTION ACCURACY

SGT 4656.0 SGR 478.1 SG3 1379.9
 RRT -.7409 RRF -.7547 RTF .9922
 SGB 4680.5 R23 .0241 R13 -.9924
 SG1 4669.5 SG2 320.2 THA 175.63

ORBIT DETERMINATION ACCURACY

ST 2789.7 SR 143.3 SS 2755.1
 CRT .1252 CRS -.0798 CST -.9989
 LSA 3919.8 MSA 168.4 SSA 11.7
 EL1 2789.7 EL2 142.1 ALF .37

LAUNCH DATE DEC 2 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 529.211

RL 147.47 LAL -.00 LOL 69.89 VL 27.825 GAL 5.57 AZL 86.90 HCA 234.37 SMA 129.40 ECC .16954 INC 3.0968 V1 30.211
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.561 GAP 3.56 AZP 91.81 TAL 150.66 TAP 25.03 RCA 107.46 APO 151.33 V2 34.785
 RC 100.837 GL 20.90 GP 4.99 ZAL 44.96 ZAP 130.25 ETS 4.68 ZAE 136.51 ETE 174.33 ZAC 87.26 ETC 166.39 CLP-130.44

PLANETOCENTRIC CONIC

C3 17.581 VHL 4.193 DLA 30.55 RAL 18.64 RAD 6567.7 VEL 11.788 PTH 2.08 VHP 3.564 DPA -.97 RAP 353.67 ECC 1.2893
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.03 0 16 51 3815.00 -21.89 154.70 245.76 68.14 1 20 26 3215.0 -24.66 146.94
 101.97 3 28 47 3197.18 -21.87 109.16 245.75 68.13 4 22 4 2597.2 -24.65 101.41
 78.03 0 16 51 3815.00 -21.89 154.70 245.76 68.14 1 20 26 3215.0 -24.66 146.94
 101.97 3 28 47 3197.18 -21.87 109.16 245.75 68.13 4 22 4 2597.2 -24.65 101.41
 110.00 6 20 43 2659.56 -32.38 71.85 249.30 78.38 7 5 3 2059.6 -33.64 62.84
 110.00 2 24 5 3400.61 -12.11 119.33 240.55 57.79 3 20 46 2800.6 -16.28 112.70

DIFFERENTIAL CORRECTIONS

TDE 2.0099 TRA 2.2716 TC3-2.3716 BAU .5604
 RDE .0784 RRA -.2428 RC3 .2448 FAU .10620
 FDE 5.7089 FRA 7.3224 FC3-5.2295 BSP 15189
 BDE 2.0114 BRA 2.2845 BC3 2.3842 FSP -4542

MID-COURSE EXECUTION ACCURACY

SGT 4948.7 SGR 449.5 SG3 1267.1
 RRT -.6754 RRF -.6887 RTF .9924
 SGB 4969.1 R23 .0209 R13 -.9925
 SG1 4958.1 SG2 330.8 THA 176.47

ORBIT DETERMINATION ACCURACY

ST 2952.3 SR 157.7 SS 2631.1
 CRT .3631 CRS -.3209 CST -.9990
 LSA 3953.9 MSA 172.4 SSA 11.8
 EL1 2952.8 EL2 147.0 ALF 1.11

LAUNCH DATE DEC 2 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 535.326

RL 147.47 LAL -.00 LOL 69.89 VL 27.814 GAL 5.73 AZL 86.87 HCA 237.53 SMA 129.32 ECC .17170 INC 3.1277 V1 30.211
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.552 GAP 3.96 AZP 91.68 TAL 150.15 TAP 27.67 RCA 107.12 APO 151.53 V2 34.784
 RC 103.240 GL 20.73 GP 4.59 ZAL 44.42 ZAP 133.74 ETS 4.83 ZAE 134.36 ETE 174.90 ZAC 87.05 ETC 166.37 CLP-133.91

PLANETOCENTRIC CONIC

C3 18.201 VHL 4.266 DLA 30.59 RAL 19.26 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 3.729 DPA -1.46 RAP 353.54 ECC 1.2995
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.91 0 18 27 3825.87 -21.71 155.43 246.94 67.90 1 22 13 3225.9 -24.52 147.70
 102.09 3 32 8 3202.47 -21.70 109.48 246.94 67.89 4 25 31 2602.5 -24.51 101.75
 77.91 0 18 27 3825.87 -21.71 155.43 246.94 67.90 1 22 13 3225.9 -24.52 147.70
 102.09 3 32 8 3202.47 -21.70 109.48 246.94 67.89 4 25 31 2602.5 -24.51 101.75
 110.00 6 22 30 2669.94 -32.23 72.62 250.56 77.95 7 7 0 2069.9 -33.56 63.64
 110.00 2 27 16 3406.39 -11.90 119.64 241.69 57.72 3 24 2 2806.4 -16.08 113.03

DIFFERENTIAL CORRECTIONS

TDE 2.1399 TRA 2.4596 TC3-2.4007 BAU .5868
 RDE .1058 RRA -.2277 RC3 .2259 FAU .09564
 FDE 5.2921 FRA 6.8825 FC3-4.5491 BSP 16093
 BDE 2.1425 BRA 2.4701 BC3 2.4113 FSP -4168

MID-COURSE EXECUTION ACCURACY

SGT 5213.4 SGR 428.5 SG3 1162.0
 RRT -.6042 RRF -.6166 RTF .9924
 SGB 5231.0 R23 .0181 R13 -.9924
 SG1 5219.8 SG2 341.0 THA 177.14

ORBIT DETERMINATION ACCURACY

ST 3096.4 SR 177.7 SS 2514.1
 CRT .5186 CRS -.4802 CST -.9990
 LSA 3988.6 MSA 176.3 SSA 12.0
 EL1 3097.8 EL2 151.9 ALF 1.71

LAUNCH DATE DEC 2 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 541.414

RL 147.47 LAL -1.00 LOL 69.89 VL 27.803 GAL 5.92 AZL 86.84 MCA 240.69 SMA 129.24 ECC .17411 INC 3.1565 V1 30.211
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.543 GAP 4.37 AZP 91.55 TAL 149.60 TAP 30.29 RCA 106.74 APO 151.75 V2 34.783
 RC 105.643 GL 20.51 GP 4.24 ZAL 43.84 ZAP 136.97 ETS 4.97 ZAE 132.44 ETE 175.35 ZAC 87.08 ETC 166.36 CLP-137.14

PLANETOCENTRIC CONIC

C3 18.894 VHL 4.347 CLA 30.60 RAL 19.93 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 3.906 OPA -1.81 RAP 353.62 ECC 1.3109
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.88 0 20 53 3835.47 -21.49 156.06 248.22 67.67 1 24 48 3235.5 -24.33 148.35
 102.12 3 35 6 3210.38 -21.48 109.97 248.21 67.66 4 28 36 2610.4 -24.32 102.27
 77.88 0 20 53 3835.47 -21.49 156.06 248.22 67.67 1 24 48 3235.5 -24.33 148.35
 102.12 3 35 6 3210.38 -21.48 109.97 248.21 67.66 4 28 36 2610.4 -24.32 102.27
 110.00 6 24 59 2679.37 -32.10 73.32 251.93 77.55 7 9 39 2079.4 -33.48 64.36
 110.00 2 30 9 3414.48 -11.61 120.08 242.89 57.62 3 27 4 2814.5 -15.80 113.48

DIFFERENTIAL CORRECTIONS

TDE 2.2585 TRA 2.6441 TC3-2.4137 BAU .6120
 RDE .1320 RRA -.2144 RC3 .2093 FAU .08626
 FDE 4.8925 FRA 6.4673 FC3-3.9525 BSP 16970
 BOE 2.2623 BRA 2.6528 BC3 2.4228 FSP -3838

MID-COURSE EXECUTION ACCURACY

SGT 5446.4 SGR 413.7 SG3 1063.4
 RRT -.5297 RRF -.5411 RTF .9922
 SGB 5462.1 R23 .0157 R13 -.9923
 SG1 5450.8 SG2 350.6 THA 177.69

ORBIT DETERMINATION ACCURACY

ST 3215.9 SR 200.0 SS 2396.6
 CRT .6186 CRS -.5834 CST -.9990
 LSA 4011.6 MSA 180.2 SSA 12.2
 EL1 3218.3 EL2 157.0 ALF 2.21

LAUNCH DATE DEC 2 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 547.476

RL 147.47 LAL -1.00 LOL 69.89 VL 27.791 GAL 6.12 AZL 86.82 MCA 243.85 SMA 129.16 ECC .17678 INC 3.1836 V1 30.211
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.534 GAP 4.78 AZP 91.40 TAL 149.02 TAP 32.87 RCA 106.33 APO 151.99 V2 34.783
 RC 108.045 GL 20.25 GP 3.92 ZAL 43.22 ZAP 139.96 ETS 5.11 ZAE 130.71 ETE 175.72 ZAC 87.32 ETC 166.34 CLP-140.12

PLANETOCENTRIC CONIC

C3 19.665 VHL 4.435 CLA 30.59 RAL 20.66 RAD 6567.8 VEL 11.876 PTH 2.11 VHP 4.095 OPA -2.03 RAP 353.91 ECC 1.3236
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.92 0 24 3 3843.97 -21.24 156.58 249.57 67.45 1 28 7 3244.0 -24.11 148.90
 102.08 3 37 40 3220.79 -21.23 110.64 249.57 67.44 4 31 21 2620.8 -24.10 102.97
 77.92 0 24 3 3843.97 -21.24 156.58 249.57 67.45 1 28 7 3244.0 -24.11 148.90
 102.08 3 37 40 3220.79 -21.23 110.64 249.57 67.44 4 31 21 2620.8 -24.10 102.97
 110.00 6 28 7 2688.00 -31.97 73.96 253.39 77.19 7 12 55 2088.0 -33.40 65.02
 110.00 2 32 7 3424.77 -11.23 120.64 244.15 57.50 3 29 52 2824.8 -15.44 114.07

DIFFERENTIAL CORRECTIONS

TDE 2.3697 TRA 2.8297 TC3-2.4072 BAU .6349
 RDE .1569 RRA -.2026 RC3 .1939 FAU .07754
 FDE 4.5240 FRA 6.0882 FC3-3.4135 BSP 17763
 BOE 2.3749 BRA 2.8369 BC3 2.4150 FSP -3530

MID-COURSE EXECUTION ACCURACY

SGT 5654.2 SGR 403.9 SG3 973.0
 RRT -.4544 RRF -.4647 RTF .9920
 SGB 5668.6 R23 .0136 R13 -.9920
 SG1 5657.2 SG2 359.6 THA 178.13

ORBIT DETERMINATION ACCURACY

ST 3316.9 SR 222.4 SS 2284.5
 CRT .6836 CRS -.6509 CST -.9990
 LSA 4029.4 MSA 184.0 SSA 12.3
 EL1 3320.4 EL2 162.1 ALF 2.63

LAUNCH DATE DEC 2 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 553.511

RL 147.47 LAL -1.00 LOL 69.89 VL 27.778 GAL 6.34 AZL 86.79 MCA 247.01 SMA 129.07 ECC .17971 INC 3.2093 V1 30.211
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.525 GAP 5.19 AZP 91.25 TAL 148.41 TAP 35.42 RCA 105.87 APO 152.26 V2 34.784
 RC 110.446 GL 19.95 GP 3.65 ZAL 42.56 ZAP 142.74 ETS 5.25 ZAE 129.17 ETE 176.01 ZAC 87.76 ETC 166.33 CLP-142.90

PLANETOCENTRIC CONIC

C3 20.523 VHL 4.530 CLA 30.55 RAL 21.42 RAD 6567.8 VEL 11.912 PTH 2.12 VHP 4.295 OPA -2.13 RAP 354.38 ECC 1.3378
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.04 0 27 57 3851.44 -20.94 157.01 251.01 67.24 1 32 8 3251.4 -23.84 149.36
 101.96 3 39 52 3233.68 -20.93 111.47 251.00 67.23 4 33 45 2633.7 -23.83 103.83
 78.04 0 27 57 3851.44 -20.94 157.01 251.01 67.24 1 32 8 3251.4 -23.84 149.36
 101.96 3 39 52 3233.68 -20.93 111.47 251.00 67.23 4 33 45 2633.7 -23.83 103.83
 110.00 6 31 50 2695.95 -31.85 74.55 254.94 76.87 7 16 46 2035.9 -33.32 65.63
 110.00 2 35 9 3437.17 -10.78 121.32 245.47 57.36 3 32 26 2837.2 -15.01 114.77

DIFFERENTIAL CORRECTIONS

TDE 2.4748 TRA 3.0182 TC3-2.3821 BAU .6555
 RDE .1810 RRA -.1918 RC3 .1795 FAU .06948
 FDE 4.1864 FRA 5.7439 FC3-2.9309 BSP 18477
 BOE 2.4814 BRA 3.0243 BC3 2.3889 FSP -3244

MID-COURSE EXECUTION ACCURACY

SGT 5839.7 SGR 397.8 SG3 890.5
 RRT -.3803 RRF -.3894 RTF .9917
 SGB 5853.2 R23 .0116 R13 -.9917
 SG1 5841.6 SG2 367.8 THA 178.51

ORBIT DETERMINATION ACCURACY

ST 3401.4 SR 244.0 SS 2178.1
 CRT .7273 CRS -.6965 CST -.9990
 LSA 4042.0 MSA 187.7 SSA 12.5
 EL1 3406.0 EL2 167.3 ALF 2.99

LAUNCH DATE DEC 2 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 559.516

RL 147.47 LAL -1.00 LOL 69.89 VL 27.764 GAL 6.58 AZL 86.77 MCA 250.17 SMA 128.97 ECC .18292 INC 3.2338 V1 30.211
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.516 GAP 5.61 AZP 91.10 TAL 147.77 TAP 37.94 RCA 105.38 APO 152.56 V2 34.786
 RC 112.844 GL 19.62 GP 3.40 ZAL 41.87 ZAP 145.34 ETS 5.41 ZAE 127.78 ETE 176.25 ZAC 88.38 ETC 166.33 CLP-145.48

PLANETOCENTRIC CONIC

C3 21.478 VHL 4.634 CLA 30.48 RAL 22.22 RAD 6567.9 VEL 11.952 PTH 2.13 VHP 4.507 OPA -2.12 RAP 355.00 ECC 1.3535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.22 0 32 32 3857.95 -20.61 157.34 252.52 67.04 1 36 50 3257.9 -23.54 149.73
 101.78 3 41 40 3249.01 -20.60 112.47 252.51 67.02 4 35 49 2649.0 -23.53 104.86
 78.22 0 32 32 3857.95 -20.61 157.34 252.52 67.04 1 36 50 3257.9 -23.54 149.73
 101.78 3 41 40 3249.01 -20.60 112.47 252.51 67.02 4 35 49 2649.0 -23.53 104.86
 110.00 6 36 6 2703.35 -31.73 75.10 256.59 76.56 7 21 9 2103.3 -33.25 66.20
 110.00 2 37 17 3451.61 -10.25 122.10 246.85 57.21 3 34 48 2851.6 -14.50 115.57

DIFFERENTIAL CORRECTIONS

TDE 2.5750 TRA 3.2112 TC3-2.3410 BAU .6739
 RDE .2044 RRA -.1819 RC3 .1659 FAU .06208
 FDE 3.8793 FRA 5.4334 FC3-2.5025 BSP 19119
 BOE 2.5831 BRA 3.2163 BC3 2.3469 FSP -2981

MID-COURSE EXECUTION ACCURACY

SGT 6005.3 SGR 394.4 SG3 815.7
 RRT -.3088 RRF -.3165 RTF .9914
 SGB 6018.2 R23 .0097 R13 -.9914
 SG1 6006.5 SG2 375.1 THA 178.83

ORBIT DETERMINATION ACCURACY

ST 3471.1 SR 264.5 SS 2077.9
 CRT .7578 CRS -.7285 CST -.9990
 LSA 4049.6 MSA 191.4 SSA 12.6
 EL1 3476.9 EL2 172.3 ALF 3.31

LAUNCH DATE DEC 2 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 565.491

RL 147.47 LAL -.00 LOL 69.89 VL 27.749 GAL 6.84 AZL 86.74 MCA 253.33 SMA 128.86 ECC .18643 INC 3.2573 V1 30.211
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.508 GAP 6.05 AZP 90.94 TAL 147.11 TAP 40.44 RCA 104.84 APO 152.89 V2 34.789
 RC 115.239 GL 19.25 GP 3.18 ZAL 41.15 ZAP 147.76 ETS 5.57 ZAE 126.55 ETE 176.46 ZAC 89.16 ETC 166.33 CLP-147.90

PLANETOCENTRIC CONIC

C3 22.541 VHL 4.748 CLA 30.39 RAL 23.05 RAD 6567.9 VEL 11.997 PTH 2.14 VHP 4.730 DPA -2.02 RAP 355.78 ECC 1.3710
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.48 0 37 46 3863.61 -20.24 157.60 254.11 66.84 1 42 9 3263.6 -23.20 150.02
 101.52 3 43 6 3266.72 -20.23 113.63 254.10 66.83 4 37 32 2666.7 -23.19 106.04
 78.48 0 37 46 3863.61 -20.24 157.60 254.11 66.84 1 42 9 3263.6 -23.20 150.02
 101.52 3 43 6 3266.72 -20.23 113.63 254.10 66.83 4 37 32 2666.7 -23.19 106.04
 110.00 6 40 51 2710.32 -31.62 75.61 258.32 76.28 7 26 1 2110.3 -33.18 66.73
 110.00 2 39 11 3468.00 -9.64 122.98 248.28 57.05 3 36 59 2868.0 -13.92 116.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6739 TRA 3.4129 TC3-2.2802 BAU .6887 SGT 6156.2 SGR 393.0 SG3 748.5 ST 3531.1 SR 283.6 SS 1986.2
 RDE .2272 RRA -.1724 RC3 .1528 FAU .05506 RRT -.2402 RRF -.2464 RTF .9909 CRT .7797 CRS -.7517 CST -.9990
 FDE 3.6058 FRA 5.1580 FC3-2.1146 BSP 19627 SGB 6168.7 R23 .0077 R13 -.9909 LSA 4056.6 MSA 194.9 SSA 12.7
 BDE 2.6835 BRA 3.4173 BC3 2.2853 FSP -2727 SG1 6156.9 SG2 381.4 THA 179.12 EL1 3538.1 EL2 177.3 ALF 3.59

LAUNCH DATE DEC 2 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 571.433

RL 147.47 LAL -.00 LOL 69.89 VL 27.733 GAL 7.13 AZL 86.72 MCA 256.50 SMA 128.76 ECC .19026 INC 3.2801 V1 30.211
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.499 GAP 6.49 AZP 90.77 TAL 146.42 TAP 42.92 RCA 104.26 APO 153.25 V2 34.792
 RC 117.630 GL 18.86 GP 2.98 ZAL 40.41 ZAP 150.03 ETS 5.75 ZAE 125.44 ETE 176.64 ZAC 90.08 ETC 166.33 CLP-150.16

PLANETOCENTRIC CONIC

C3 23.723 VHL 4.871 CLA 30.28 RAL 23.92 RAD 6568.0 VEL 12.046 PTH 2.15 VHP 4.963 DPA -1.84 RAP 356.68 ECC 1.3904
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.81 0 43 38 3868.34 -19.84 157.77 255.77 66.65 1 48 7 3268.3 -22.83 150.22
 101.19 3 44 6 3286.91 -19.82 114.95 255.76 66.64 4 38 53 2686.9 -22.82 107.40
 78.81 0 43 38 3868.34 -19.84 157.77 255.77 66.65 1 48 7 3268.3 -22.83 150.22
 101.19 3 44 6 3286.91 -19.82 114.95 255.76 66.64 4 38 53 2686.9 -22.82 107.40
 110.00 6 46 2 2716.99 -31.51 76.10 260.14 76.01 7 31 19 2117.0 -33.11 67.24
 110.00 2 40 53 3486.26 -8.97 123.96 249.76 56.87 3 38 59 2886.3 -13.26 117.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7660 TRA 3.6190 TC3-2.2122 BAU .7030 SGT 6287.4 SGR 393.0 SG3 687.0 ST 3574.7 SR 301.5 SS 1897.0
 RDE .2499 RRA -.1630 RC3 .1404 FAU .04895 RRT -.1752 RRF -.1801 RTF .9905 CRT .7960 CRS -.7689 CST -.9990
 FDE 3.3518 FRA 4.9053 FC3-1.7864 BSP 20164 SGB 6299.7 R23 .0060 R13 -.9905 LSA 4053.2 MSA 198.3 SSA 12.8
 BDE 2.7773 BRA 3.6226 BC3 2.2167 FSP -2511 SG1 6287.8 SG2 386.9 THA 179.37 EL1 3582.7 EL2 182.1 ALF 3.85

LAUNCH DATE DEC 2 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 577.339

RL 147.47 LAL -.00 LOL 69.89 VL 27.717 GAL 7.43 AZL 86.70 MCA 259.66 SMA 128.64 ECC .19442 INC 3.3023 V1 30.211
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.491 GAP 6.94 AZP 90.59 TAL 145.72 TAP 45.38 RCA 103.63 APO 153.66 V2 34.796
 RC 120.015 GL 18.44 GP 2.80 ZAL 39.64 ZAP 152.16 ETS 5.95 ZAE 124.44 ETE 176.79 ZAC 91.12 ETC 166.34 CLP-152.29

PLANETOCENTRIC CONIC

C3 25.040 VHL 5.004 CLA 30.14 RAL 24.80 RAD 6568.0 VEL 12.100 PTH 2.17 VHP 5.209 DPA -1.58 RAP 357.69 ECC 1.4121
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.21 0 50 11 3872.02 -19.40 157.84 257.50 66.46 1 54 43 3272.0 -22.41 150.32
 100.79 3 44 38 3309.76 -19.38 116.45 257.49 66.45 4 39 48 2709.8 -22.40 108.94
 79.21 0 50 11 3872.02 -19.40 157.84 257.50 66.46 1 54 43 3272.0 -22.41 150.32
 100.79 3 44 38 3309.76 -19.38 116.45 257.49 66.45 4 39 48 2709.8 -22.40 108.94
 110.00 6 51 37 2723.46 -31.40 76.57 262.04 75.75 7 37 1 2123.5 -33.04 67.73
 110.00 2 42 22 3506.32 -8.22 125.03 251.29 56.70 3 40 49 2906.3 -12.54 118.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.8556 TRA 3.8339 TC3-2.1332 BAU .7154 SGT 6404.4 SGR 393.9 SG3 631.4 ST 3607.4 SR 317.8 SS 1813.5
 RDE .2724 RRA -.1535 RC3 .1284 FAU .04336 RRT -.1136 RRF -.1171 RTF .9901 CRT .8082 CRS -.7820 CST -.9990
 FDE 3.1222 FRA 4.6789 FC3-1.4991 BSP 20641 SGB 6416.5 R23 .0043 R13 -.9901 LSA 4045.1 MSA 201.6 SSA 12.8
 BDE 2.8685 BRA 3.8370 BC3 2.1370 FSP -2313 SG1 6404.5 SG2 391.3 THA 179.60 EL1 3616.6 EL2 186.7 ALF 4.08

LAUNCH DATE DEC 2 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 583.207

RL 147.47 LAL -.00 LOL 69.89 VL 27.700 GAL 7.76 AZL 86.68 MCA 262.82 SMA 128.53 ECC .19894 INC 3.3240 V1 30.211
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.483 GAP 7.41 AZP 90.42 TAL 144.99 TAP 47.82 RCA 102.96 APO 154.10 V2 34.800
 RC 122.394 GL 18.00 GP 2.64 ZAL 38.85 ZAP 154.17 ETS 6.18 ZAE 123.55 ETE 176.93 ZAC 92.28 ETC 166.35 CLP-154.30

PLANETOCENTRIC CONIC

C3 26.509 VHL 5.149 CLA 29.99 RAL 25.71 RAD 6568.1 VEL 12.161 PTH 2.18 VHP 5.467 DPA -1.25 RAP 358.81 ECC 1.4363
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.69 0 57 25 3874.59 -18.92 157.81 259.29 66.29 2 2 0 3274.6 -21.97 150.33
 100.31 3 44 38 3335.37 -18.90 118.14 259.29 66.28 4 40 13 2735.4 -21.95 110.66
 79.69 0 57 25 3874.59 -18.92 157.81 259.29 66.29 2 2 0 3274.6 -21.97 150.33
 100.31 3 44 38 3335.37 -18.90 118.14 259.29 66.28 4 40 13 2735.4 -21.95 110.66
 110.00 6 57 33 2729.84 -31.29 77.04 264.02 75.49 7 43 3 2129.8 -32.97 68.21
 110.00 2 43 41 3528.11 -7.40 126.19 252.86 56.53 3 42 29 2928.1 -11.75 119.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.9436 TRA 4.0590 TC3-2.0441 BAU .7256 SGT 6508.3 SGR 395.3 SG3 581.2 ST 3630.6 SR 332.8 SS 1735.7
 RDE .2949 RRA -.1438 RC3 .1169 FAU .03825 RRT -.0551 RRF -.0574 RTF .9896 CRT .8176 CRS -.7922 CST -.9990
 FDE 2.9150 FRA 4.4760 FC3-1.2492 BSP 21075 SGB 6520.3 R23 .0027 R13 -.9896 LSA 4032.7 MSA 204.7 SSA 12.8
 BDE 2.9583 BRA 4.0615 BC3 2.0475 FSP -2132 SG1 6508.3 SG2 394.7 THA 179.81 EL1 3640.9 EL2 191.1 ALF 4.30

LAUNCH DATE DEC 2 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 589.033

RL 147.47 LAL -1.00 LOL 69.89 VL 27.683 GAL 8.12 AZL 86.65 HCA 265.99 SMA 128.41 ECC .20386 INC 3.3455 V1 30.211
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.475 GAP 7.89 AZP 90.23 TAL 144.26 TAP 50.24 RCA 102.23 APO 154.58 V2 34.805
 RC 124.766 GL 17.54 GP 2.50 ZAL 38.04 ZAP 156.08 ETS 6.43 ZAE 122.74 ETE 177.05 ZAC 93.53 ETC 166.35 CLP-156.20

PLANETOCENTRIC CONIC

C3 28.149 VHL 5.306 DLA 29.82 RAL 26.63 RAD 6568.1 VEL 12.228 PTH 2.20 VHP 5.739 DPA -.87 RAP .02 ECC 1.4633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.25 1 5 23 3875.83 -18.41 157.66 261.15 66.12 2 9 59 3275.8 -21.48 150.22
 99.75 3 44 1 3363.99 -18.39 120.03 261.14 66.11 4 40 5 2764.0 -21.47 112.59
 100.00 4 4 6 3299.87 -20.00 116.00 261.87 67.31 4 59 6 2699.9 -22.90 108.40
 100.00 3 28 0 3415.18 -16.82 123.08 260.39 64.92 4 24 55 2815.2 -20.06 115.78
 110.00 7 3 47 2736.23 -31.18 77.50 266.07 75.23 7 49 23 2136.2 -32.90 68.70
 110.00 2 44 48 3551.58 -6.52 127.43 254.49 56.37 3 44 0 2951.6 -10.89 121.08

DIFFERENTIAL CORRECTIONS

TOE 3.0341 TRA 4.2997 TC3-1.9414 BAU .7317
 RDE .3173 RRA -.1335 RC3 .1057 FAU .03336
 FDE 2.7317 FRA 4.2985 FC3-1.0259 BSP 21378
 BDE 3.0506 BRA 4.3018 BC3 1.9443 FSP -1957

MID-COURSE EXECUTION ACCURACY

SGT 6604.5 SGR 397.0 SG3 536.2
 RRT .0010 RRF -.0000 RTF .9891
 SGB 6616.5 R23 -.0010 R13 .9891
 SG1 6604.5 SG2 397.0 THA .00

ORBIT DETERMINATION ACCURACY

ST 3649.3 SR 346.3 SS 1665.3
 CRT .8250 CRS -.8003 CST -.9991
 LSA 4020.8 MSA 207.5 SSA 12.8
 EL1 3660.5 EL2 195.1 ALF 4.49

LAUNCH DATE DEC 2 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 594.812

RL 147.47 LAL -1.00 LOL 69.89 VL 27.665 GAL 8.51 AZL 86.63 HCA 269.15 SMA 128.29 ECC .20919 INC 3.3667 V1 30.211
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.467 GAP 8.40 AZP 90.05 TAL 143.51 TAP 52.66 RCA 101.45 APO 155.12 V2 34.811
 RC 127.128 GL 17.06 GP 2.37 ZAL 37.23 ZAP 157.89 ETS 6.71 ZAE 122.00 ETE 177.17 ZAC 94.87 ETC 166.36 CLP-158.02

PLANETOCENTRIC CONIC

C3 29.983 VHL 5.476 DLA 29.62 RAL 27.57 RAD 6568.2 VEL 12.303 PTH 2.22 VHP 6.024 DPA -.43 RAP 1.30 ECC 1.4934
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.92 1 14 13 3875.28 -17.86 157.37 263.06 65.97 2 18 48 3275.3 -20.96 149.96
 99.08 3 42 38 3396.11 -17.85 122.16 263.06 65.96 4 39 14 2796.1 -20.94 114.75
 100.00 4 23 30 3265.43 -20.89 113.82 264.42 68.12 5 17 55 2665.4 -23.68 106.14
 100.00 3 16 2 3481.20 -14.87 127.01 261.60 63.77 4 14 3 2881.2 -18.27 119.88
 110.00 7 10 16 2742.72 -31.07 77.98 268.20 74.98 7 55 59 2142.7 -32.82 69.19
 110.00 2 45 45 3576.66 -5.57 128.76 256.15 56.22 3 45 22 2976.7 -9.97 122.43

DIFFERENTIAL CORRECTIONS

TOE 3.1202 TRA 4.5490 TC3-1.8377 BAU .7376
 RDE .3399 RRA -.1224 RC3 .0951 FAU .02913
 FDE 2.5615 FRA 4.1352 FC3 -.8410 BSP 21745
 BDE 3.1386 BRA 4.5506 BC3 1.8402 FSP -1809

MID-COURSE EXECUTION ACCURACY

SGT 6685.2 SGR 398.8 SG3 494.9
 RRT .0542 RRF .0542 RTF .9887
 SGB 6697.0 R23 .0004 R13 .9887
 SG1 6685.2 SG2 398.2 THA .19

ORBIT DETERMINATION ACCURACY

ST 3655.3 SR 358.4 SS 1597.0
 CRT .8307 CRS -.8067 CST -.9991
 LSA 3999.5 MSA 210.1 SSA 12.7
 EL1 3667.4 EL2 198.8 ALF 4.67

LAUNCH DATE DEC 2 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 600.539

RL 147.47 LAL -1.00 LOL 69.89 VL 27.646 GAL 8.92 AZL 86.61 HCA 272.32 SMA 128.16 ECC .21498 INC 3.3880 V1 30.211
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.459 GAP 8.92 AZP 89.86 TAL 142.75 TAP 55.07 RCA 100.61 APO 155.71 V2 34.818
 RC 129.481 GL 16.57 GP 2.26 ZAL 36.40 ZAP 159.63 ETS 7.03 ZAE 121.33 ETE 177.28 ZAC 96.29 ETC 166.36 CLP-159.75

PLANETOCENTRIC CONIC

C3 32.039 VHL 5.660 DLA 29.41 RAL 28.50 RAD 6568.3 VEL 12.386 PTH 2.24 VHP 6.326 DPA .06 RAP 2.65 ECC 1.5273
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.70 1 24 3 3872.42 -17.28 156.88 265.03 65.82 2 28 35 3272.4 -20.40 149.52
 98.30 3 40 17 3432.29 -17.27 124.56 265.03 65.81 4 37 30 2832.3 -20.39 117.20
 100.00 4 38 31 3245.82 -21.38 112.58 266.86 68.60 5 32 37 2645.8 -24.10 104.83
 100.00 3 8 30 3534.12 -13.25 130.11 263.03 62.96 4 7 24 2934.1 -16.77 123.09
 110.00 7 16 58 2749.40 -30.95 78.46 270.39 74.71 8 2 48 2149.4 -32.74 69.69
 110.00 2 46 32 3603.31 -4.56 130.16 257.86 56.09 3 46 36 3003.3 -8.98 123.86

DIFFERENTIAL CORRECTIONS

TOE 3.2065 TRA 4.8131 TC3-1.7285 BAU .7413
 RDE .3626 RRA -.1105 RC3 .0849 FAU .02524
 FDE 2.4076 FRA 3.9896 FC3 -.6821 BSP 22076
 BDE 3.2269 BRA 4.8144 BC3 1.7306 FSP -1674

MID-COURSE EXECUTION ACCURACY

SGT 6756.0 SGR 400.6 SG3 457.4
 RRT .1053 RRF .1060 RTF .9883
 SGB 6767.9 R23 .0016 R13 .9883
 SG1 6756.1 SG2 398.3 THA .36

ORBIT DETERMINATION ACCURACY

ST 3654.2 SR 369.1 SS 1533.6
 CRT .8353 CRS -.8119 CST -.9991
 LSA 3974.5 MSA 212.4 SSA 12.7
 EL1 3667.2 EL2 202.2 ALF 4.84

LAUNCH DATE DEC 2 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 606.209

RL 147.47 LAL -1.00 LOL 69.89 VL 27.628 GAL 9.37 AZL 86.59 HCA 275.49 SMA 128.03 ECC .22127 INC 3.4094 V1 30.211
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.452 GAP 9.47 AZP 89.67 TAL 141.98 TAP 57.47 RCA 99.70 APO 156.36 V2 34.825
 RC 131.823 GL 16.06 GP 2.15 ZAL 35.57 ZAP 161.29 ETS 7.40 ZAE 120.71 ETE 177.38 ZAC 97.77 ETC 166.35 CLP-161.41

PLANETOCENTRIC CONIC

C3 34.348 VHL 5.861 DLA 29.18 RAL 29.44 RAD 6568.4 VEL 12.479 PTH 2.26 VHP 6.644 DPA .58 RAP 4.07 ECC 1.5653
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.63 1 35 10 3866.29 -16.66 156.14 267.05 65.69 2 39 37 3266.3 -19.81 148.81
 97.37 3 36 40 3473.50 -16.65 127.32 267.05 65.68 4 34 34 2873.5 -19.79 119.99
 100.00 4 51 55 3232.20 -21.72 111.70 269.29 68.94 5 45 47 2632.2 -24.39 103.92
 100.00 3 2 36 3582.83 -11.73 132.92 264.57 62.31 4 2 19 2982.8 -15.34 126.00
 110.00 7 23 52 2756.33 -30.83 78.96 272.65 74.44 8 9 48 2156.3 -32.65 70.22
 110.00 2 47 9 3631.46 -3.49 131.63 259.61 55.97 3 47 41 3031.5 -7.93 125.36

DIFFERENTIAL CORRECTIONS

TOE 3.2945 TRA 5.0940 TC3-1.6138 BAU .7419
 RDE .3855 RRA -.0975 RC3 .0754 FAU .02164
 FDE 2.2692 FRA 3.8607 FC3 -.5454 BSP 22362
 BDE 3.3169 BRA 5.0950 BC3 1.6156 FSP -1549

MID-COURSE EXECUTION ACCURACY

SGT 6818.2 SGR 402.2 SG3 423.4
 RRT .1545 RRF .1560 RTF .9880
 SGB 6830.1 R23 .0028 R13 .9880
 SG1 6818.5 SG2 397.4 THA .52

ORBIT DETERMINATION ACCURACY

ST 3647.6 SR 378.3 SS 1475.1
 CRT .8389 CRS -.8162 CST -.9991
 LSA 3946.9 MSA 214.3 SSA 12.5
 EL1 3661.4 EL2 205.1 ALF 4.99

325A

LAUNCH DATE DEC 3 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 11 1969

HELIOCENTRIC CONIC
 RL 147.45 LAL -.00 LOL 70.90 VL 15.883 GAL 29.12 AZL 87.07 MCA 35.89 SMA 85.74 ECC .79508 INC 2.9292 VI 30.216
 RP 107.54 LAP 1.72 LOP 106.75 VP 30.336 GAP -51.16 AZP 87.63 TAL 171.38 TAP 207.27 RCA 17.57 APO 153.91 V2 35.238
 RC 86.453 GL 2.23 GP -.37 ZAL 63.99 ZAP 34.57 ETS 178.02 ZAE 132.88 ETE 186.13 ZAC 57.25 ETC 161.32 CLP 34.57

DISTANCE 129.270

PLANETOCENTRIC CONIC
 C3 331.913 VHL 18.218 CLA 4.80 RAL 5.48 RAD 6571.9 VEL 21.289 PTH 3.20 VHP 28.578 DPA -17.66 RAP 324.86 ECC 6.4624
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 38 2949.62 -28.20 92.76 272.14 87.33 7 8 48 2349.6 -28.27 84.10
 90.00 19 29 12 5295.17 27.22 240.00 267.11 81.88 20 57 27 4695.2 25.81 231.62
 100.00 7 43 14 2679.98 -29.79 73.01 272.22 87.44 8 27 54 2080.0 -29.83 64.21
 100.00 20 48 17 5040.05 28.80 220.98 266.85 81.61 22 12 17 4440.1 27.34 212.49
 110.00 8 56 40 2450.19 -34.12 55.78 272.44 87.72 9 37 30 1850.2 -34.06 46.54
 110.00 21 51 21 4842.60 33.07 205.23 266.08 80.82 23 12 4 4242.6 31.45 196.38

MID-COURSE EXECUTION ACCURACY
 SGT 830.6 SGR 455.1 SG3 24.4
 RRT -.0328 RRF .0290 RTF -.6231
 SGB 947.1 R23 .0002 R13 .6231
 SG1 830.8 SG2 454.7 THA 178.53

ORBIT DETERMINATION ACCURACY
 ST 344.2 SR 408.4 SS 341.8
 CRT .7122 CRS .7763 CST .9937
 LSA 593.2 MSA 223.4 SSA 14.0
 EL1 495.6 EL2 199.1 ALF 51.79

DIFFERENTIAL CORRECTIONS
 TDE -.8871 TRA-2.1247 TC3 -.1106 BAU .4927
 RDE -1.2834 RRA .6569 RC3 -.0095 FAU .01125
 FDE .3799 FRA .7373 FC3 -.0293 BSP 2004
 BOE 1.5602 BRA 2.2239 BC3 .1110 FSP -50

LAUNCH DATE DEC 3 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC
 RL 147.45 LAL -.00 LOL 70.90 VL 16.669 GAL 27.74 AZL 87.02 MCA 39.13 SMA 87.18 ECC .76877 INC 2.9789 VI 30.216
 RP 107.53 LAP 1.88 LOP 109.99 VP 30.761 GAP -48.88 AZP 87.69 TAL 170.48 TAP 209.61 RCA 20.16 APO 154.20 V2 35.243
 RC 84.254 GL 2.52 GP -.38 ZAL 62.65 ZAP 33.04 ETS 178.07 ZAE 132.83 ETE 186.53 ZAC 58.89 ETC 161.74 CLP 33.03

DISTANCE 134.746

PLANETOCENTRIC CONIC
 C3 304.576 VHL 17.452 CLA 5.60 RAL 6.61 RAD 6571.7 VEL 20.637 PTH 3.17 VHP 27.539 DPA -17.14 RAP 326.56 ECC 6.0125
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 6 2964.86 -28.15 93.87 272.93 86.78 7 7 31 2364.9 -28.30 85.21
 90.00 19 39 46 5260.19 26.86 237.51 267.12 80.67 21 7 26 4660.2 25.29 229.19
 100.00 7 42 5 2693.96 -29.75 74.05 273.03 86.89 8 26 59 2094.0 -29.86 65.25
 100.00 20 58 28 5006.32 28.44 218.54 266.82 80.37 22 21 54 4406.3 26.81 210.11
 110.00 8 56 24 2461.40 -34.08 56.66 273.29 87.20 9 37 25 1861.4 -34.09 47.41
 110.00 22 0 39 4811.64 32.71 202.88 265.94 79.48 23 20 50 4211.6 30.92 194.12

MID-COURSE EXECUTION ACCURACY
 SGT 869.6 SGR 460.7 SG3 26.3
 RRT -.0326 RRF .0290 RTF -.6420
 SGB 984.1 R23 .0001 R13 .6420
 SG1 869.8 SG2 460.4 THA 178.62

ORBIT DETERMINATION ACCURACY
 ST 361.9 SR 413.3 SS 357.7
 CRT .7107 CRS .7771 CST .9935
 LSA 613.8 MSA 229.6 SSA 14.2
 EL1 508.9 EL2 206.7 ALF 50.31

DIFFERENTIAL CORRECTIONS
 TDE -.8920 TRA-2.1445 TC3 -.1181 BAU .4831
 RDE -1.2442 RRA .6356 RC3 -.0109 FAU .01129
 FDE .3956 FRA .7645 FC3 -.0321 BSP 2131
 BOE 1.5309 BRA 2.2367 BC3 .1186 FSP -55

LAUNCH DATE DEC 3 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC
 RL 147.45 LAL -.00 LOL 70.90 VL 17.408 GAL 26.46 AZL 86.98 MCA 42.38 SMA 88.65 ECC .74241 INC 3.0222 VI 30.216
 RP 107.51 LAP 2.04 LOP 113.23 VP 31.173 GAP -46.71 AZP 87.77 TAL 169.58 TAP 211.95 RCA 22.83 APO 154.46 V2 35.247
 RC 82.065 GL 2.82 GP -.39 ZAL 61.35 ZAP 31.53 ETS 178.11 ZAE 132.85 ETE 186.95 ZAC 60.56 ETC 162.13 CLP 31.53

DISTANCE 140.345

PLANETOCENTRIC CONIC
 C3 279.643 VHL 16.723 CLA 6.39 RAL 7.69 RAD 6571.6 VEL 20.024 PTH 3.14 VHP 26.536 DPA -16.61 RAP 328.29 ECC 5.6022
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 16 24 2979.35 -28.09 94.93 273.62 86.25 7 6 4 2379.3 -28.31 86.27
 90.00 19 50 6 5224.88 26.44 235.00 267.06 79.49 21 17 11 4624.9 24.72 226.76
 100.00 7 40 47 2707.19 -29.69 75.03 273.74 86.38 8 25 54 2107.2 -29.88 66.23
 100.00 21 8 25 4972.27 28.02 216.09 266.73 79.15 22 31 17 4372.3 26.24 207.75
 110.00 8 55 59 2471.86 -34.04 57.47 274.05 86.72 9 37 11 1871.9 -34.12 48.23
 110.00 22 9 42 4780.37 32.30 200.54 265.73 78.15 23 29 23 4180.4 30.33 191.88

MID-COURSE EXECUTION ACCURACY
 SGT 909.7 SGR 465.7 SG3 28.4
 RRT -.0324 RRF .0289 RTF -.6602
 SGB 1022.0 R23 .0001 R13 .6602
 SG1 909.9 SG2 465.4 THA 178.71

ORBIT DETERMINATION ACCURACY
 ST 380.2 SR 417.7 SS 373.9
 CRT .7091 CRS .7779 CST .9932
 LSA 634.9 MSA 235.4 SSA 14.4
 EL1 522.6 EL2 214.3 ALF 48.78

DIFFERENTIAL CORRECTIONS
 TDE -.8964 TRA-2.1635 TC3 -.1257 BAU .4723
 RDE -1.2048 RRA .6137 RC3 -.0123 FAU .01134
 FDE .4114 FRA .7920 FC3 -.0351 BSP 2284
 BOE 1.5017 BRA 2.2489 BC3 .1263 FSP -60

LAUNCH DATE DEC 3 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC
 RL 147.45 LAL -.00 LOL 70.90 VL 18.103 GAL 25.27 AZL 86.94 MCA 45.62 SMA 90.13 ECC .71617 INC 3.0605 VI 30.216
 RP 107.50 LAP 2.19 LOP 116.48 VP 31.570 GAP -44.66 AZP 87.86 TAL 168.68 TAP 214.30 RCA 25.58 APO 154.68 V2 35.251
 RC 79.887 GL 3.13 GP -.40 ZAL 60.11 ZAP 30.04 ETS 178.15 ZAE 132.95 ETE 187.40 ZAC 62.25 ETC 162.51 CLP 30.04

DISTANCE 146.059

PLANETOCENTRIC CONIC
 C3 256.874 VHL 16.027 CLA 7.17 RAL 8.73 RAD 6571.5 VEL 19.447 PTH 3.11 VHP 25.566 DPA -16.05 RAP 330.03 ECC 5.2275
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 14 33 2993.11 -28.02 95.93 274.22 85.75 7 4 26 2393.1 -28.32 87.28
 90.00 20 0 14 5189.21 25.98 232.50 266.94 78.31 21 26 43 4589.2 24.10 224.33
 100.00 7 39 19 2719.69 -29.64 75.96 274.35 85.90 8 24 39 2119.7 -29.89 67.16
 100.00 21 18 9 4937.86 27.56 213.64 266.57 77.94 22 40 27 4337.9 25.62 205.38
 110.00 8 55 24 2481.58 -34.00 58.23 274.70 86.28 9 36 46 1881.6 -34.15 48.99
 110.00 22 18 33 4748.73 31.83 198.19 265.47 76.83 23 37 42 4148.7 29.69 189.63

MID-COURSE EXECUTION ACCURACY
 SGT 953.6 SGR 470.0 SG3 30.7
 RRT -.0313 RRF .0284 RTF -.6778
 SGB 1063.2 R23 .0004 R13 .6778
 SG1 953.8 SG2 469.7 THA 178.83

ORBIT DETERMINATION ACCURACY
 ST 400.6 SR 421.5 SS 390.7
 CRT .7082 CRS .7789 CST .9930
 LSA 657.7 MSA 241.0 SSA 14.7
 EL1 537.5 EL2 221.8 ALF 47.05

DIFFERENTIAL CORRECTIONS
 TDE -.9043 TRA-2.1859 TC3 -.1340 BAU .4627
 RDE -1.1653 RRA .5914 RC3 -.0139 FAU .01140
 FDE .4280 FRA .8204 FC3 -.0384 BSP 2358
 BOE 1.4750 BRA 2.2645 BC3 .1347 FSP -65

LAUNCH DATE DEC 3 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 151.882

RL 147.45 LAL -.00 LOL 70.90 VL 18.755 GAL 24.15 AZL 86.91 MCA 48.87 SMA 91.63 ECC .69017 INC 3.0946 V1 30.216
 RP 107.49 LAP 2.33 LOP 119.73 VP 31.952 GAP -42.71 AZP 87.96 TAL 167.80 TAP 216.67 RCA 28.39 APO 154.87 V2 35.254
 RC 77.721 GL 3.45 GP -.41 ZAL 58.92 ZAP 28.58 ETS 178.19 ZAE 133.12 ETE 187.86 ZAC 63.96 ETC 162.86 CLP 28.57

PLANETOCENTRIC CONIC

C3 236.054 VHL 15.364 CLA 7.93 RAL 9.72 RAD 6571.4 VEL 18.904 PTH 3.07 VHP 24.628 DPA -15.47 RAP 331.78 ECC 4.8849
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 31 3006.16 -27.95 96.88 274.71 85.28 7 2 37 2406.2 -28.31 88.23
 90.00 20 10 9 5153.12 25.45 229.98 266.77 77.16 21 36 2 4553.1 23.43 221.90
 100.00 7 37 41 2731.46 -29.57 76.83 274.86 85.44 8 23 13 2131.5 -29.89 68.03
 100.00 21 27 40 4903.05 27.04 211.19 266.36 76.74 22 49 23 4303.0 24.95 203.01
 110.00 8 54 40 2490.56 -33.96 58.93 275.25 85.86 9 36 10 1890.6 -34.16 49.69
 110.00 22 27 11 4716.71 31.31 195.84 265.15 75.53 23 45 48 4116.7 29.01 187.39

DIFFERENTIAL CORRECTIONS

TDE -.9109 TRA-2.2065 TC3 -.1423 BAU .4518
 RDE -1.1258 RRA .5686 RC3 -.0156 FAU .01147
 FDE .4449 FRA .8492 FC3 -.0421 BSP 2477
 BOE 1.4481 BRA 2.2786 BC3 .1432 FSP -71

MID-COURSE EXECUTION ACCURACY

SGT 998.4 SGR 473.7 SG3 33.1
 RRT -.0301 RRF .0277 RTF -.6947
 SGB 1105.1 R23 -.0007 R13 .6947
 SG1 998.6 SG2 473.4 THA 178.94

ORBIT DETERMINATION ACCURACY

ST 421.5 SR 424.7 SS 407.8
 CRT .7073 CRS .7798 CST .9928
 LSA 680.9 MSA 246.1 SSA 14.9
 EL1 552.9 EL2 228.9 ALF 45.31

LAUNCH DATE DEC 3 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 157.835

RL 147.45 LAL -.00 LOL 70.90 VL 19.369 GAL 23.11 AZL 86.87 MCA 52.12 SMA 93.13 ECC .66465 INC 3.1256 V1 30.216
 RP 107.48 LAP 2.47 LOP 122.97 VP 32.318 GAP -40.87 AZP 88.08 TAL 166.92 TAP 219.03 RCA 31.23 APO 155.03 V2 35.256
 RC 75.571 GL 3.78 GP -.43 ZAL 57.76 ZAP 27.13 ETS 178.22 ZAE 133.38 ETE 188.35 ZAC 65.70 ETC 163.21 CLP 27.13

PLANETOCENTRIC CONIC

C3 217.171 VHL 14.737 CLA 8.70 RAL 10.68 RAD 6571.2 VEL 18.398 PTH 3.04 VHP 23.725 DPA -14.88 RAP 333.54 ECC 4.5741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 10 20 3018.78 -27.88 97.79 275.13 84.83 7 0 38 2418.8 -28.30 89.15
 90.00 20 19 59 5116.54 24.88 227.46 266.55 76.02 21 45 15 4516.5 22.71 219.46
 100.00 7 35 54 2742.78 -29.51 77.66 275.29 85.01 8 21 37 2142.8 -29.89 68.88
 100.00 21 37 5 4867.77 26.46 208.72 266.11 75.57 22 58 13 4267.8 24.22 200.64
 110.00 8 53 47 2499.05 -33.92 59.59 275.72 85.48 9 35 26 1899.0 -34.17 50.35
 110.00 22 35 42 4684.27 30.74 193.49 264.79 74.24 23 53 46 4084.3 28.27 185.16

DIFFERENTIAL CORRECTIONS

TDE -1.2369 TRA-2.5469 TC3 -.2095 BAU .6101
 RDE -1.0829 RRA .5498 RC3 -.0168 FAU .00983
 FDE .4999 FRA .9159 FC3 -.0392 BSP 5050
 BOE 1.6439 BRA 2.6056 BC3 .2101 FSP 1

MID-COURSE EXECUTION ACCURACY

SGT 1271.2 SGR 475.9 SG3 36.7
 RRT .0271 RRF .0088 RTF -.7085
 SGB 1357.3 R23 .0312 R13 -.7083
 SG1 1271.3 SG2 475.7 THA .68

ORBIT DETERMINATION ACCURACY

ST 567.4 SR 426.0 SS 455.9
 CRT .7571 CRS .7896 CST .9975
 LSA 806.6 MSA 245.6 SSA 16.9
 EL1 669.1 EL2 236.0 ALF 34.50

LAUNCH DATE DEC 3 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 163.822

RL 147.45 LAL -.00 LOL 70.90 VL 19.945 GAL 22.08 AZL 86.85 MCA 55.36 SMA 94.64 ECC .63929 INC 3.1540 V1 30.216
 RP 107.48 LAP 2.59 LOP 126.22 VP 32.669 GAP -39.09 AZP 88.21 TAL 166.06 TAP 221.43 RCA 34.14 APO 155.14 V2 35.258
 RC 73.439 GL 4.13 GP -.44 ZAL 56.69 ZAP 25.70 ETS 178.24 ZAE 133.72 ETE 188.87 ZAC 67.45 ETC 163.53 CLP 25.70

PLANETOCENTRIC CONIC

C3 199.533 VHL 14.126 CLA 9.45 RAL 11.55 RAD 6571.1 VEL 17.912 PTH 3.00 VHP 22.839 DPA -14.26 RAP 335.31 ECC 4.2838
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 53 3030.22 -27.81 98.62 275.39 84.42 6 58 23 2430.2 -28.29 89.99
 90.00 20 29 25 5079.50 24.24 224.93 266.24 74.90 21 54 5 4479.5 21.94 217.02
 100.00 7 33 52 2752.92 -29.45 78.41 275.57 84.62 8 19 45 2152.9 -29.88 69.63
 100.00 21 46 8 4832.04 25.83 206.25 265.75 74.41 23 6 40 4232.0 23.45 198.27
 110.00 8 52 39 2506.36 -33.88 60.15 276.04 85.14 9 34 25 1906.4 -34.18 50.92
 110.00 22 43 50 4651.36 30.10 191.13 264.34 72.98 24 1 21 4051.4 27.48 182.92

DIFFERENTIAL CORRECTIONS

TDE -.9036 TRA-2.2250 TC3 -.1552 BAU .4173
 RDE -1.0469 RRA .5221 RC3 -.0197 FAU .01180
 FDE .4776 FRA .9060 FC3 -.0512 BSP 3222
 BOE 1.3830 BRA 2.2855 BC3 .1564 FSP -90

MID-COURSE EXECUTION ACCURACY

SGT 1078.7 SGR 479.1 SG3 38.4
 RRT -.0317 RRF .0270 RTF -.7273
 SGB 1180.3 R23 .0017 R13 .7274
 SG1 1078.8 SG2 478.8 THA 179.00

ORBIT DETERMINATION ACCURACY

ST 458.1 SR 429.5 SS 441.4
 CRT .7013 CRS .7813 CST .9917
 LSA 723.6 MSA 255.6 SSA 15.1
 EL1 579.4 EL2 242.1 ALF 42.37

LAUNCH DATE DEC 3 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 169.930

RL 147.45 LAL -.00 LOL 70.90 VL 20.487 GAL 21.13 AZL 86.82 MCA 58.61 SMA 96.14 ECC .61459 INC 3.1802 V1 30.216
 RP 107.48 LAP 2.71 LOP 129.47 VP 33.003 GAP -37.40 AZP 88.34 TAL 165.22 TAP 223.83 RCA 37.05 APO 155.23 V2 35.259
 RC 71.328 GL 4.49 GP -.45 ZAL 55.65 ZAP 24.29 ETS 178.25 ZAE 134.15 ETE 189.41 ZAC 69.22 ETC 163.84 CLP 24.28

PLANETOCENTRIC CONIC

C3 183.537 VHL 13.548 CLA 10.19 RAL 12.40 RAD 6571.0 VEL 17.460 PTH 2.96 VHP 21.986 DPA -13.63 RAP 337.09 ECC 4.0206
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 5 16 3041.31 -27.73 99.43 275.59 84.03 6 55 57 2441.3 -28.27 90.80
 90.00 20 38 48 5041.90 23.55 222.39 265.89 73.81 22 2 50 4441.9 21.11 214.57
 100.00 7 31 39 2762.68 -29.38 79.13 275.78 84.25 8 17 42 2162.7 -29.87 70.36
 100.00 21 55 5 4795.76 25.15 203.78 265.37 73.28 23 15 1 4195.8 22.62 195.89
 110.00 8 51 22 2513.24 -33.84 60.69 276.28 84.83 9 33 15 1913.2 -34.18 51.46
 110.00 22 51 52 4617.97 29.41 188.78 263.86 71.74 24 8 50 4018.0 26.64 180.69

DIFFERENTIAL CORRECTIONS

TDE -.9135 TRA-2.2463 TC3 -.1641 BAU .4063
 RDE -1.0075 RRA .4987 RC3 -.0219 FAU .01192
 FDE .4965 FRA .9370 FC3 -.0562 BSP 3287
 BOE 1.3600 BRA 2.3010 BC3 .1656 FSP -97

MID-COURSE EXECUTION ACCURACY

SGT 1130.8 SGR 480.6 SG3 41.4
 RRT -.0291 RRF .0255 RTF -.7422
 SGB 1228.7 R23 .0009 R13 .7422
 SG1 1130.9 SG2 480.4 THA 179.14

ORBIT DETERMINATION ACCURACY

ST 483.0 SR 430.9 SS 460.3
 CRT .7016 CRS .7825 CST .9916
 LSA 750.5 MSA 259.5 SSA 15.3
 EL1 597.9 EL2 248.1 ALF 40.37

LAUNCH DATE DEC 3 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 176.120

RL 147.45 LAL -.00 LOL 70.90 VL 20.997 GAL 20.22 AZL 86.80 MCA 61.86 SMA 97.64 ECC .59047 INC 3.2047 V1 30.216
 RP 107.48 LAP 2.83 LOP 132.72 VP 33.322 GAP -35.79 AZP 88.49 TAL 164.39 TAP 226.25 RCA 39.99 APO 155.29 V2 35.259
 RC 69.241 GL 4.86 GP -.47 ZAL 54.66 ZAP 22.89 ETS 178.25 ZAE 134.66 ETE 190.00 ZAC 71.01 ETC 164.13 CLP 22.89

PLANETOCENTRIC CONIC

C3 168.868 VHL 12.995 DLA 10.93 RAL 13.20 RAD 6570.8 VEL 17.035 PTH 2.93 VHP 21.159 DPA -12.99 RAP 338.87 ECC 3.7791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 2 26 3051.83 -27.65 100.19 275.68 83.65 6 53 17 2451.8 -28.24 91.57
 90.00 20 48 0 5003.71 22.80 219.84 265.49 72.74 22 11 24 4403.7 20.23 212.12
 100.00 7 29 14 2771.84 -29.32 79.80 275.88 83.90 8 15 26 2171.8 -29.86 71.04
 100.00 22 3 53 4758.93 24.40 201.29 264.94 72.18 23 23 11 4158.9 21.74 193.51
 110.00 8 49 54 2519.46 -33.80 61.17 276.42 84.55 9 31 53 1919.5 -34.18 51.94
 110.00 22 59 43 4584.07 28.67 186.42 263.33 70.53 24 16 7 3984.1 25.74 178.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9190 TRA-2.2619 TC3 -.1722 BAU .3926 SGT 1181.6 SGR 481.5 SG3 44.6 ST 507.2 SR 431.7 SS 479.2
 RDE -.9683 RRA .4752 RC3 -.0244 FAU .01209 RRT -.0271 RRF .0239 RTF -.7566 CRT .7011 CRS .7838 CST .9913
 FDE .5156 FRA .9682 FC3 -.0620 BSP 3461 SGB 1275.9 R23 .0007 R13 .7566 LSA 777.1 MSA 262.9 SSA 15.5
 BDE 1.3350 BRA 2.3113 BC3 .1739 FSP -106 SG1 1181.7 SG2 481.3 THA 179.24 EL1 615.9 EL2 253.5 ALF 38.50

LAUNCH DATE DEC 3 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 182.387

RL 147.45 LAL -.00 LOL 70.90 VL 21.475 GAL 19.35 AZL 86.77 MCA 65.11 SMA 99.12 ECC .56697 INC 3.2277 V1 30.216
 RP 107.48 LAP 2.93 LOP 135.97 VP 33.625 GAP -34.24 AZP 88.64 TAL 163.59 TAP 228.69 RCA 42.92 APO 155.32 V2 35.258
 RC 67.184 GL 5.25 GP -.49 ZAL 53.72 ZAP 21.51 ETS 178.23 ZAE 135.28 ETE 190.62 ZAC 72.81 ETC 164.41 CLP 21.50

PLANETOCENTRIC CONIC

C3 155.411 VHL 12.466 DLA 11.66 RAL 13.95 RAD 6570.7 VEL 16.635 PTH 2.89 VHP 20.357 DPA -12.32 RAP 340.65 ECC 3.5577
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 59 21 3061.83 -27.58 100.91 275.67 83.30 6 50 23 2461.8 -28.22 92.30
 90.00 20 57 4 4964.89 22.00 217.28 265.04 71.71 22 19 49 4364.9 19.29 209.65
 100.00 7 26 36 2780.43 -29.26 80.43 275.89 83.57 8 12 57 2180.4 -29.84 71.67
 100.00 22 12 30 4721.52 23.60 198.80 264.46 71.10 23 31 12 4121.5 20.80 191.12
 110.00 8 48 13 2525.07 -33.76 61.60 276.45 84.29 9 30 18 1925.1 -34.18 52.38
 110.00 23 7 23 4549.64 27.86 184.06 262.75 69.35 24 23 13 3949.6 24.80 176.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9258 TRA-2.2774 TC3 -.1804 BAU .3791 SGT 1235.2 SGR 481.6 SG3 48.1 ST 532.9 SR 431.8 SS 499.0
 RDE -.9292 RRA .4518 RC3 -.0270 FAU .01227 RRT -.0244 RRF .0219 RTF -.7703 CRT .7012 CRS .7852 CST .9911
 FDE .5358 FRA 1.0004 FC3 -.0684 BSP 3615 SGB 1325.7 R23 .0003 R13 .7703 LSA 805.4 MSA 265.7 SSA 15.6
 BDE 1.3117 BRA 2.3217 BC3 .1824 FSP -115 SG1 1235.2 SG2 481.4 THA 179.36 EL1 635.5 EL2 258.2 ALF 36.59

LAUNCH DATE DEC 3 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 188.723

RL 147.45 LAL -.00 LOL 70.90 VL 21.925 GAL 18.52 AZL 86.75 MCA 68.35 SMA 100.58 ECC .54414 INC 3.2496 V1 30.216
 RP 107.48 LAP 3.02 LOP 139.22 VP 33.912 GAP -32.76 AZP 88.80 TAL 162.80 TAP 231.16 RCA 45.85 APO 155.32 V2 35.257
 RC 65.159 GL 5.65 GP -.51 ZAL 52.84 ZAP 20.13 ETS 178.19 ZAE 136.00 ETE 191.28 ZAC 74.63 ETC 164.68 CLP 20.13

PLANETOCENTRIC CONIC

C3 143.065 VHL 11.961 DLA 12.39 RAL 14.65 RAD 6570.6 VEL 16.260 PTH 2.85 VHP 19.579 DPA -11.65 RAP 342.44 ECC 3.3545
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 56 2 3071.36 -27.50 101.59 275.57 82.96 6 47 14 2471.4 -28.19 93.00
 90.00 21 6 0 4925.42 21.13 214.71 264.54 70.70 22 28 6 4325.4 18.31 207.18
 100.00 7 23 44 2788.52 -29.19 81.02 275.80 83.27 8 10 13 2188.5 -29.82 72.28
 100.00 22 20 59 4683.48 22.74 196.31 263.93 70.06 23 39 3 4083.5 19.82 188.73
 110.00 8 46 19 2530.11 -33.73 61.99 276.39 84.07 9 28 29 1930.1 -34.18 52.78
 110.00 23 14 54 4514.66 27.00 181.71 262.14 68.19 24 30 8 3914.7 23.80 174.01

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9298 TRA-2.2886 TC3 -.1878 BAU .3637 SGT 1288.4 SGR 480.9 SG3 51.9 ST 558.5 SR 431.2 SS 519.2
 RDE -.8905 RRA .4284 RC3 -.0299 FAU .01250 RRT -.0221 RRF .0198 RTF -.7835 CRT .7009 CRS .7867 CST .9908
 FDE .5564 FRA 1.0333 FC3 -.0757 BSP 3844 SGB 1375.2 R23 .0003 R13 .7835 LSA 833.9 MSA 268.1 SSA 15.7
 BDE 1.2875 BRA 2.3283 BC3 .1901 FSP -126 SG1 1288.4 SG2 480.7 THA 179.45 EL1 655.1 EL2 262.2 ALF 34.77

LAUNCH DATE DEC 3 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 195.125

RL 147.45 LAL -.00 LOL 70.90 VL 22.348 GAL 17.73 AZL 86.73 MCA 71.60 SMA 102.03 ECC .52201 INC 3.2704 V1 30.216
 RP 107.49 LAP 3.10 LOP 142.47 VP 34.185 GAP -31.33 AZP 88.97 TAL 162.04 TAP 233.64 RCA 48.77 APO 155.29 V2 35.254
 RC 63.173 GL 6.07 GP -.53 ZAL 52.00 ZAP 18.77 ETS 178.13 ZAE 136.82 ETE 191.99 ZAC 76.46 ETC 164.92 CLP 18.77

PLANETOCENTRIC CONIC

C3 131.736 VHL 11.478 DLA 13.11 RAL 15.31 RAD 6570.4 VEL 15.908 PTH 2.81 VHP 18.825 DPA -10.96 RAP 344.23 ECC 3.1680
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 52 28 3080.49 -27.42 102.25 275.36 82.64 6 43 48 2480.5 -28.16 93.66
 90.00 21 14 49 4885.26 20.21 212.13 264.00 69.73 22 36 14 4285.3 17.27 204.69
 100.00 7 20 37 2796.17 -29.13 81.58 275.61 82.98 8 7 13 2196.2 -29.80 72.84
 100.00 22 29 20 4644.81 21.82 193.80 263.35 69.05 23 46 45 4044.8 18.77 186.33
 110.00 8 44 12 2534.63 -33.69 62.34 276.23 83.86 9 26 27 1934.6 -34.18 53.13
 110.00 23 22 14 4479.12 26.08 179.35 261.48 67.08 24 36 53 3879.1 22.75 171.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9344 TRA-2.2984 TC3 -.1949 BAU .3481 SGT 1343.7 SGR 479.4 SG3 56.0 ST 585.4 SR 429.9 SS 540.2
 RDE -.8522 RRA .4052 RC3 -.0330 FAU .01276 RRT -.0193 RRF .0173 RTF -.7961 CRT .7010 CRS .7883 CST .9906
 FDE .5783 FRA 1.0673 FC3 -.0839 BSP 4067 SGB 1426.7 R23 .0002 R13 .7961 LSA 863.9 MSA 269.8 SSA 15.9
 BDE 1.2646 BRA 2.3339 BC3 .1976 FSP -138 SG1 1343.7 SG2 479.3 THA 179.55 EL1 676.0 EL2 265.5 ALF 32.95

LAUNCH DATE DEC 3 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 201.585

RL 147.45 LAL -0.00 LOL 70.90 VL 22.745 GAL 16.97 AZL 86.71 HCA 74.85 SMA 103.46 ECC .50062 INC 3.2905 V1 30.216
 RP 107.50 LAP 3.18 LOP 145.72 VP 34.443 GAP -29.96 AZP 89.14 TAL 161.31 TAP 236.16 RCA 51.66 APO 155.25 V2 35.251
 RC 61.231 GL 6.51 GP -.56 ZAL 51.22 ZAP 17.42 ETS 178.03 ZAE 137.75 ETE 192.76 ZAC 78.29 ETC 165.15 CLP 17.41

PLANETOCENTRIC CONIC

C3 121.341 VHL 11.016 DLA 13.83 RAL 15.92 RAD 6570.3 VEL 15.578 PTH 2.77 VHP 18.093 DPA -10.26 RAP 346.02 ECC 2.9970
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 36 3089.30 -27.34 102.88 275.07 82.33 6 40 5 2489.3 -28.12 94.30
 90.00 21 23 31 4844.38 19.22 209.54 263.42 68.80 22 44 15 4244.4 16.17 202.19
 100.00 7 17 14 2803.43 -29.07 82.11 275.32 82.70 8 3 58 2203.4 -29.77 73.38
 100.00 22 37 33 4605.48 20.84 191.29 262.74 68.07 23 54 19 4005.5 17.68 183.92
 110.00 8 41 51 2538.67 -33.66 62.65 275.97 83.68 9 24 10 1938.7 -34.17 53.44
 110.00 23 29 26 4443.01 25.10 177.01 260.78 66.00 24 43 29 3843.0 21.64 169.56

DIFFERENTIAL CORRECTIONS

TDE -.9414 TRA-2.3089 TC3 -.2023 BAU .3334
 RDE -.8142 RRA .3823 RC3 -.0362 FAU .01304
 FDE .6017 FRA 1.1027 FC3 -.0930 BSP 4240
 BDE 1.2447 BRA 2.3403 BC3 .2055 FSP -150

MID-COURSE EXECUTION ACCURACY

SGT 1402.9 SGR 477.1 SG3 60.4
 RRT -.0154 RRF .0143 RTF -.8079
 SGB 1481.8 R23 -.0003 R13 .8079
 SG1 1402.9 SG2 477.1 THA 179.66

ORBIT DETERMINATION ACCURACY

ST 614.5 SR 428.0 SS 562.3
 CRT .7020 CRS .7902 CST .9904
 LSA 896.3 MSA 270.7 SSA 16.0
 EL1 699.3 EL2 267.8 ALF 31.11

LAUNCH DATE DEC 3 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 208.102

RL 147.45 LAL -0.00 LOL 70.90 VL 23.117 GAL 16.24 AZL 86.69 HCA 78.10 SMA 104.85 ECC .47996 INC 3.3100 V1 30.216
 RP 107.51 LAP 3.24 LOP 148.97 VP 34.686 GAP -28.65 AZP 89.32 TAL 160.60 TAP 238.69 RCA 54.53 APO 155.18 V2 35.248
 RC 59.338 GL 6.96 GP -.58 ZAL 50.50 ZAP 16.07 ETS 177.90 ZAE 138.80 ETE 193.60 ZAC 80.13 ETC 165.37 CLP 16.06

PLANETOCENTRIC CONIC

C3 111.804 VHL 10.574 DLA 14.54 RAL 16.47 RAD 6570.1 VEL 15.269 PTH 2.74 VHP 17.382 DPA -9.55 RAP 347.80 ECC 2.8400
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 44 27 3097.87 -27.26 103.50 274.68 82.04 6 36 5 2497.9 -28.08 94.93
 90.00 21 32 7 4802.77 18.18 206.93 262.80 67.91 22 52 10 4202.8 15.02 199.68
 100.00 7 13 35 2810.40 -29.01 82.62 274.95 82.44 8 0 26 2210.4 -29.75 73.90
 100.00 22 45 40 4565.47 19.80 188.77 262.09 67.14 24 1 46 3965.5 16.54 181.50
 110.00 8 39 16 2542.31 -33.64 62.93 275.61 83.52 9 21 38 1942.3 -34.17 53.73
 110.00 23 36 29 4406.33 24.06 174.66 260.05 64.96 24 49 55 3806.3 20.49 167.34

DIFFERENTIAL CORRECTIONS

TDE -.9468 TRA-2.3156 TC3 -.2087 BAU .3175
 RDE -.7768 RRA .3597 RC3 -.0397 FAU .01336
 FDE .6262 FRA 1.1393 FC3 -.1035 BSP 4464
 BDE 1.2246 BRA 2.3433 BC3 .2124 FSP -164

MID-COURSE EXECUTION ACCURACY

SGT 1462.3 SGR 474.1 SG3 65.2
 RRT -.0116 RRF .0111 RTF -.8193
 SGB 1537.2 R23 -.0005 R13 .8193
 SG1 1462.3 SG2 474.0 THA 179.76

ORBIT DETERMINATION ACCURACY

ST 643.9 SR 425.2 SS 585.1
 CRT .7030 CRS .7922 CST .9902
 LSA 929.5 MSA 271.1 SSA 16.1
 EL1 723.1 EL2 269.3 ALF 29.36

LAUNCH DATE DEC 3 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 214.665

RL 147.45 LAL -0.00 LOL 70.90 VL 23.467 GAL 15.55 AZL 86.67 HCA 81.34 SMA 106.22 ECC .46007 INC 3.3290 V1 30.216
 RP 107.52 LAP 3.29 LOP 152.23 VP 34.916 GAP -27.38 AZP 89.50 TAL 159.92 TAP 241.26 RCA 57.35 APO 155.09 V2 35.243
 RC 57.501 GL 7.43 GP -.61 ZAL 49.82 ZAP 14.73 ETS 177.70 ZAE 139.96 ETE 194.52 ZAC 81.98 ETC 165.58 CLP 14.72

PLANETOCENTRIC CONIC

C3 103.057 VHL 10.152 DLA 15.26 RAL 16.98 RAD 6570.0 VEL 14.980 PTH 2.70 VHP 16.693 DPA -8.84 RAP 349.59 ECC 2.6960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 39 58 3106.30 -27.18 104.10 274.19 81.74 6 31 45 2506.3 -28.04 95.54
 90.00 21 40 39 4760.39 17.07 204.31 262.14 67.06 23 0 0 4160.4 13.82 197.14
 100.00 7 9 38 2817.14 -28.95 83.12 274.48 82.19 7 56 35 2217.1 -29.72 74.40
 100.00 22 53 41 4524.78 18.71 186.25 261.40 66.25 24 9 5 3924.8 15.34 179.08
 110.00 8 36 25 2545.60 -33.61 63.19 275.17 83.37 9 18 51 1945.6 -34.16 53.99
 110.00 23 43 23 4369.09 22.97 172.32 259.28 63.96 24 56 12 3769.1 19.28 165.13

DIFFERENTIAL CORRECTIONS

TDE -.9519 TRA-2.3198 TC3 -.2142 BAU .3012
 RDE -.7398 RRA .3374 RC3 -.0434 FAU .01372
 FDE .6523 FRA 1.1772 FC3 -.1153 BSP 4701
 BDE 1.2056 BRA 2.3442 BC3 .2186 FSP -179

MID-COURSE EXECUTION ACCURACY

SGT 1523.0 SGR 470.2 SG3 70.4
 RRT -.0073 RRF .0074 RTF -.8300
 SGB 1593.9 R23 -.0007 R13 .8300
 SG1 1523.0 SG2 470.2 THA 179.86

ORBIT DETERMINATION ACCURACY

ST 674.2 SR 421.7 SS 609.0
 CRT .7043 CRS .7945 CST .9900
 LSA 964.2 MSA 270.8 SSA 16.2
 EL1 748.1 EL2 269.8 ALF 27.68

LAUNCH DATE DEC 3 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 221.272

RL 147.45 LAL -0.00 LOL 70.90 VL 23.795 GAL 14.88 AZL 86.65 HCA 84.59 SMA 107.56 ECC .44094 INC 3.3478 V1 30.216
 RP 107.54 LAP 3.33 LOP 155.48 VP 35.132 GAP -26.16 AZP 89.68 TAL 159.27 TAP 243.85 RCA 60.13 APO 154.98 V2 35.238
 RC 55.726 GL 7.92 GP -.64 ZAL 49.20 ZAP 13.39 ETS 177.44 ZAE 141.25 ETE 195.52 ZAC 83.83 ETC 165.76 CLP 13.37

PLANETOCENTRIC CONIC

C3 95.034 VHL 9.749 DLA 15.97 RAL 17.44 RAD 6569.9 VEL 14.710 PTH 2.66 VHP 16.025 DPA -8.11 RAP 351.37 ECC 2.5640
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 10 3114.70 -27.10 104.70 273.62 81.45 6 27 4 2514.7 -28.00 96.15
 90.00 21 49 8 4717.23 15.91 201.68 261.45 66.26 23 7 45 4117.2 12.56 194.60
 100.00 7 5 23 2823.77 -28.88 83.60 273.92 81.94 7 52 26 2223.8 -29.70 74.89
 100.00 23 1 36 4483.40 17.55 183.72 260.68 65.41 24 16 20 3883.4 14.09 176.64
 110.00 8 33 19 2548.64 -33.59 63.42 274.63 83.23 9 15 47 1948.6 -34.16 54.22
 110.00 23 50 10 4331.29 21.82 169.99 258.49 63.01 25 2 21 3731.3 18.03 162.91

DIFFERENTIAL CORRECTIONS

TDE -.9575 TRA-2.3220 TC3 -.2191 BAU .2847
 RDE -.7035 RRA .3156 RC3 -.0473 FAU .01413
 FDE .6802 FRA 1.2168 FC3 -.1287 BSP 4936
 BDE 1.1882 BRA 2.3433 BC3 .2241 FSP -196

MID-COURSE EXECUTION ACCURACY

SGT 1585.6 SGR 465.5 SG3 76.1
 RRT -.0025 RRF .0033 RTF -.8403
 SGB 1652.5 R23 -.0010 R13 .8403
 SG1 1585.6 SG2 465.5 THA 179.95

ORBIT DETERMINATION ACCURACY

ST 705.9 SR 417.5 SS 634.0
 CRT .7061 CRS .7969 CST .9898
 LSA 1000.7 MSA 269.8 SSA 16.3
 EL1 774.6 EL2 269.4 ALF 26.05

LAUNCH DATE DEC 3 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 227.918

RL 147.45 LAL -1.00 LOL 70.90 VL 24.103 GAL 14.24 AZL 86.63 HCA 87.83 SMA 108.86 ECC .42258 INC 3.3662 V1 30.216
 RP 107.56 LAP 3.36 LOP 158.72 VP 35.335 GAP -24.99 AZP 89.87 TAL 158.65 TAP 246.48 RCA 62.86 APO 154.86 V2 35.232
 RC 54.021 GL 8.42 GP -1.68 ZAL 48.63 ZAP 12.05 ETS 177.08 ZAE 142.67 ETE 196.64 ZAC 85.68 ETC 165.94 CLP 12.03

PLANETOCENTRIC CONIC

C3 87.681 VHL 9.364 CLA 16.68 RAL 17.85 RAD 6569.7 VEL 14.458 PTH 2.63 VHP 15.376 DPA -7.39 RAP 353.14 ECC 2.4430
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 59 3123.18 -27.01 105.31 272.97 81.16 6 22 2 2523.2 -27.96 96.77
 90.00 21 57 35 4673.27 14.68 199.03 260.74 65.51 23 15 28 4073.3 11.26 192.03
 100.00 7 0 47 2830.38 -28.82 84.08 273.28 81.70 7 47 58 2230.4 -29.67 75.38
 100.00 23 9 28 4441.31 16.34 181.18 259.94 64.62 24 23 29 3841.3 12.79 174.19
 110.00 8 29 55 2551.50 -33.56 63.64 274.01 83.10 9 12 27 1951.5 -34.15 54.45
 110.00 0 0 45 4292.95 20.62 167.66 257.68 62.11 1 12 18 3693.0 16.73 160.70

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9635 TRA-2.3222 TC3 -.2230 BAU .2682 SGT 1649.9 SGR 459.9 SG3 82.3 ST 738.8 SR 412.5 SS 660.3
 RDE -.6678 RRA .2944 RC3 -.0513 FAU .01457 RRT .0028 RRF -.0012 RTF -.8500 CRT .7083 CRS .7996 CST .9897
 FDE .7101 FRA 1.2583 FC3 -.1439 BSP 5177 SGB 1712.8 R23 .0014 R13 -.8500 LSA 1039.1 MSA 268.1 SSA 16.3
 BDE 1.1723 BRA 2.3408 BC3 .2288 FSP -214 SGI 1649.9 SG2 459.9 THA .05 EL1 802.5 EL2 268.0 ALF 24.49

LAUNCH DATE DEC 3 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 234.598

RL 147.45 LAL -1.00 LOL 70.90 VL 24.392 GAL 13.62 AZL 86.62 HCA 91.07 SMA 110.12 ECC .40499 INC 3.3846 V1 30.216
 RP 107.58 LAP 3.38 LOP 161.97 VP 35.526 GAP -23.86 AZP 90.06 TAL 158.06 TAP 249.13 RCA 65.52 APO 154.72 V2 35.226
 RC 52.393 GL 8.95 GP -.72 ZAL 48.12 ZAP 10.71 ETS 176.57 ZAE 144.22 ETE 197.88 ZAC 87.53 ETC 166.10 CLP 10.69

PLANETOCENTRIC CONIC

C3 80.942 VHL 8.997 CLA 17.39 RAL 18.21 RAD 6569.6 VEL 14.223 PTH 2.59 VHP 14.747 DPA -6.66 RAP 354.91 ECC 2.3321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 26 3131.89 -26.92 105.93 272.23 80.86 6 16 37 2531.9 -27.91 97.40
 90.00 22 6 0 4628.48 13.40 196.36 260.00 64.82 23 23 9 4028.5 9.90 189.44
 100.00 6 55 51 2837.08 -28.75 84.57 272.55 81.45 7 43 8 2237.1 -29.64 75.87
 100.00 23 17 16 4398.52 15.08 178.63 259.17 63.88 24 30 35 3798.5 11.44 171.72
 110.00 8 26 14 2554.27 -33.54 63.85 273.32 82.98 9 8 49 1954.3 -34.15 54.66
 110.00 0 7 18 4254.11 19.36 165.35 256.84 61.27 1 18 12 3654.1 15.38 158.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9698 TRA-2.3202 TC3 -.2257 BAU .2516 SGT 1715.8 SGR 453.6 SG3 89.1 ST 772.9 SR 406.7 SS 688.0
 RDE -.6328 RRA .2737 RC3 -.0556 FAU .01507 RRT .0086 RRF -.0061 RTF -.8591 CRT .7109 CRS .8025 CST .9896
 FDE .7424 FRA 1.3019 FC3 -.1612 BSP 5419 SGB 1774.7 R23 .0019 R13 -.8591 LSA 1079.5 MSA 265.7 SSA 16.4
 BDE 1.1580 BRA 2.3363 BC3 .2325 FSP -234 SGI 1715.8 SG2 453.6 THA .14 EL1 832.0 EL2 265.7 ALF 22.99

LAUNCH DATE DEC 3 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 241.307

RL 147.45 LAL -1.00 LOL 70.90 VL 24.662 GAL 13.04 AZL 86.60 HCA 94.31 SMA 111.35 ECC .38817 INC 3.4031 V1 30.216
 RP 107.60 LAP 3.39 LOP 165.22 VP 35.706 GAP -22.76 AZP 90.26 TAL 157.51 TAP 251.82 RCA 68.12 APO 154.57 V2 35.219
 RC 50.852 GL 9.49 GP -.76 ZAL 47.66 ZAP 9.37 ETS 175.87 ZAE 145.90 ETE 199.29 ZAC 89.38 ETC 166.25 CLP 9.34

PLANETOCENTRIC CONIC

C3 74.771 VHL 8.647 CLA 18.10 RAL 18.52 RAD 6569.5 VEL 14.004 PTH 2.55 VHP 14.137 DPA -5.93 RAP 356.67 ECC 2.2305
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 27 3140.96 -26.82 106.57 271.41 80.55 6 10 48 2541.0 -27.85 98.06
 90.00 22 14 27 4582.84 12.06 193.68 259.24 64.19 23 30 49 3982.8 8.49 186.82
 100.00 6 50 32 2844.01 -28.68 85.07 271.75 81.20 7 37 56 2244.0 -29.60 76.39
 100.00 23 25 3 4355.01 13.76 176.07 258.38 63.20 24 37 38 3755.0 10.05 169.25
 110.00 8 22 15 2557.04 -33.52 64.07 272.54 82.85 9 4 52 1957.0 -34.14 54.88
 110.00 0 13 45 4214.75 18.06 163.04 255.98 60.47 1 23 59 3614.7 13.99 156.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9764 TRA-2.3156 TC3 -.2271 BAU .2348 SGT 1782.8 SGR 446.4 SG3 96.4 ST 808.2 SR 400.1 SS 717.2
 RDE -.5985 RRA .2536 RC3 -.0599 FAU .01563 RRT .0149 RRF -.0114 RTF -.8678 CRT .7141 CRS .8056 CST .9895
 FDE .7773 FRA 1.3476 FC3 -.1810 BSP 5669 SGB 1837.9 R23 .0024 R13 -.8678 LSA 1121.8 MSA 262.6 SSA 16.5
 BDE 1.1452 BRA 2.3294 BC3 .2348 FSP -256 SGI 1782.8 SG2 446.3 THA .23 EL1 862.8 EL2 262.4 ALF 21.56

LAUNCH DATE DEC 3 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 248.041

RL 147.45 LAL -1.00 LOL 70.90 VL 24.915 GAL 12.47 AZL 86.58 HCA 97.55 SMA 112.53 ECC .37210 INC 3.4217 V1 30.216
 RP 107.62 LAP 3.39 LOP 168.46 VP 35.873 GAP -21.71 AZP 90.45 TAL 156.99 TAP 254.54 RCA 70.66 APO 154.40 V2 35.211
 RC 49.405 GL 10.06 GP -.81 ZAL 47.26 ZAP 8.03 ETS 174.85 ZAE 147.70 ETE 200.90 ZAC 91.22 ETC 166.38 CLP 7.99

PLANETOCENTRIC CONIC

C3 69.122 VHL 8.314 CLA 18.81 RAL 18.78 RAD 6569.3 VEL 13.801 PTH 2.52 VHP 13.546 DPA -5.21 RAP 358.42 ECC 2.1376
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 12 1 3150.56 -26.71 107.26 270.52 80.23 6 4 31 2550.6 -27.79 98.76
 90.00 22 22 56 4536.31 10.67 190.97 258.46 63.61 23 38 32 3936.3 7.04 184.17
 100.00 6 44 49 2851.31 -28.60 85.60 270.88 80.93 7 32 20 2251.3 -29.56 76.92
 100.00 23 32 49 4310.80 12.38 173.51 257.58 62.57 24 44 39 3710.8 8.61 166.75
 110.00 8 17 57 2559.94 -33.49 64.29 271.70 82.72 9 0 37 1959.9 -34.14 55.11
 110.00 0 20 6 4174.93 16.71 160.75 255.12 59.74 1 29 41 3574.9 12.56 154.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9862 TRA-2.3114 TC3 -.2285 BAU .2194 SGT 1854.2 SGR 438.4 SG3 104.5 ST 846.7 SR 392.7 SS 748.6
 RDE -.5650 RRA .2342 RC3 -.0645 FAU .01622 RRT .0227 RRF -.0176 RTF -.8758 CRT .7183 CRS .8091 CST .9895
 FDE .8157 FRA 1.3966 FC3 -.2031 BSP 5856 SGB 1905.3 R23 .0035 R13 -.8758 LSA 1168.0 MSA 258.8 SSA 16.5
 BDE 1.1365 BRA 2.3232 BC3 .2374 FSP -278 SGI 1854.2 SG2 438.3 THA .33 EL1 897.0 EL2 257.9 ALF 20.17

LAUNCH DATE DEC 3 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 254.796

RL 147.45 LAL -.00 LOL 70.90 VL 25.152 GAL 11.94 AZL 86.56 HCA 100.79 SMA 113.67 ECC .35678 INC 3.4405 V1 30.216
 RP 107.65 LAP 3.38 LOP 171.71 VP 36.030 GAP -20.69 AZP 90.64 TAL 156.51 TAP 257.30 RCA 73.12 APO 154.23 V2 35.202
 RC 48.064 GL 10.64 GP -.86 ZAL 46.92 ZAP 6.68 ETS 173.33 ZAE 149.64 ETE 202.75 ZAC 93.05 ETC 166.50 CLP 6.62

PLANETOCENTRIC CONIC

C3 63.955 VHL 7.997 DLA 19.53 RAL 18.98 RAD 6569.2 VEL 13.613 PTH 2.49 VHP 12.973 OPA -4.49 RAP .16 ECC 2.0525
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 6 3160.88 -26.59 107.99 269.56 79.88 5 57 46 2560.9 -27.72 99.50
 90.00 22 31 29 4488.86 9.22 188.24 257.68 63.11 23 46 18 3888.9 5.54 181.49
 100.00 6 38 41 2859.11 -28.52 86.16 269.94 80.64 7 26 20 2259.1 -29.52 77.50
 100.00 23 40 35 4265.86 10.96 170.93 256.76 62.02 24 51 41 3665.9 7.13 164.23
 110.00 8 13 18 2563.06 -33.47 64.53 270.79 82.59 8 56 1 1963.1 -34.13 55.35
 110.00 0 26 23 4134.68 15.31 158.46 254.24 59.06 1 35 18 3534.7 11.10 151.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9940 TRA-2.3024 TC3 -.2269 BAU .2028 SGT 1924.1 SGR 429.5 SG3 113.4 ST 884.8 SR 384.5 SS 781.6
 RDE -.5323 RRA .2156 RC3 -.0691 FAU .01689 RRT .0301 RRF -.0238 RTF -.8835 CRT .7224 CRS .8127 CST .9896
 FDE .8571 FRA 1.4480 FC3 -.2287 BSP 6104 SGB 1971.5 R23 .0042 R13 -.8835 LSA 1215.2 MSA 254.4 SSA 16.6
 BDE 1.1275 BRA 2.3125 BC3 .2372 FSP -304 SG1 1924.1 SG2 429.3 THA .41 EL1 931.1 EL2 252.7 ALF 18.87

LAUNCH DATE DEC 3 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 261.568

RL 147.45 LAL -.00 LOL 70.90 VL 25.374 GAL 11.42 AZL 86.54 HCA 104.03 SMA 114.77 ECC .34219 INC 3.4598 V1 30.216
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.176 GAP -19.71 AZP 90.84 TAL 156.06 TAP 260.09 RCA 75.50 APO 154.05 V2 35.194
 RC 46.839 GL 11.25 GP -.92 ZAL 46.63 ZAP 5.33 ETS 170.89 ZAE 151.68 ETE 204.92 ZAC 94.87 ETC 166.61 CLP 5.25

PLANETOCENTRIC CONIC

C3 59.230 VHL 7.696 DLA 20.24 RAL 19.14 RAD 6569.1 VEL 13.438 PTH 2.46 VHP 12.417 OPA -3.78 RAP 1.88 ECC 1.9748
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 57 38 3172.11 -26.45 108.78 268.53 79.51 5 50 30 2572.1 -27.63 100.31
 90.00 22 40 10 4440.42 7.72 185.47 256.88 62.67 23 54 10 3840.4 4.00 178.77
 100.00 6 32 5 2867.59 -28.42 86.77 268.93 80.33 7 19 52 2267.6 -29.47 78.13
 100.00 23 48 25 4220.17 9.49 168.34 255.94 61.52 24 58 45 3620.2 5.61 161.69
 110.00 8 8 19 2566.51 -33.43 64.79 269.81 82.43 8 51 5 1966.5 -34.12 55.62
 110.00 0 32 36 4094.02 13.88 156.18 253.35 58.44 1 40 50 3494.0 9.60 149.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0021 TRA-2.2909 TC3 -.2231 BAU .1861 SGT 1994.7 SGR 419.9 SG3 123.1 ST 924.2 SR 375.5 SS 816.5
 RDE -.5004 RRA .1977 RC3 -.0738 FAU .01765 RRT .0379 RRF -.0303 RTF -.8909 CRT .7270 CRS .8165 CST .9896
 FDE .9023 FRA 1.5025 FC3 -.2580 BSP 6355 SGB 2038.4 R23 .0051 R13 -.8909 LSA 1264.7 MSA 249.4 SSA 16.6
 BDE 1.1201 BRA 2.2994 BC3 .2350 FSP -333 SG1 1994.7 SG2 419.6 THA .48 EL1 966.6 EL2 246.5 ALF 17.64

LAUNCH DATE DEC 3 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 268.353

RL 147.45 LAL -.00 LOL 70.90 VL 25.581 GAL 10.93 AZL 86.52 HCA 107.26 SMA 115.83 ECC .32832 INC 3.4796 V1 30.216
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.313 GAP -18.76 AZP 91.03 TAL 155.65 TAP 262.91 RCA 77.80 APO 153.86 V2 35.184
 RC 45.742 GL 11.87 GP -.99 ZAL 46.39 ZAP 3.99 ETS 166.60 ZAE 153.83 ETE 207.50 ZAC 96.68 ETC 166.71 CLP 3.86

PLANETOCENTRIC CONIC

C3 54.914 VHL 7.410 DLA 20.96 RAL 19.24 RAD 6569.0 VEL 13.277 PTH 2.43 VHP 11.878 OPA -3.08 RAP 3.60 ECC 1.9038
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 36 3184.50 -26.30 109.65 267.44 79.10 5 42 40 2584.5 -27.53 101.21
 90.00 22 49 1 4390.91 6.16 182.67 256.09 62.31 24 2 12 3790.9 2.41 176.00
 100.00 6 24 59 2876.92 -28.32 87.45 267.86 80.00 7 12 56 2276.9 -29.41 78.81
 100.00 0 0 14 4173.72 7.97 165.72 255.11 61.09 1 9 48 3573.7 4.05 159.13
 110.00 8 2 57 2570.43 -33.40 65.09 268.79 82.26 8 45 47 1970.4 -34.11 55.92
 110.00 0 38 46 4052.98 12.40 153.92 252.46 57.89 1 46 19 3453.0 8.07 147.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0085 TRA-2.2743 TC3 -.2154 BAU .1683 SGT 2062.9 SGR 409.4 SG3 133.7 ST 962.9 SR 365.7 SS 853.3
 RDE -.4693 RRA .1808 RC3 -.0785 FAU .01851 RRT .0453 RRF -.0367 RTF -.8980 CRT .7317 CRS .8205 CST .9896
 FDE .9512 FRA 1.5601 FC3 -.2918 BSP 6670 SGB 2103.1 R23 .0056 R13 -.8980 LSA 1315.0 MSA 243.9 SSA 16.5
 BDE 1.1123 BRA 2.2815 BC3 .2292 FSP -367 SG1 2063.0 SG2 409.0 THA .54 EL1 1001.7 EL2 239.6 ALF 16.50

LAUNCH DATE DEC 3 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 275.147

RL 147.45 LAL -.00 LOL 70.90 VL 25.774 GAL 10.46 AZL 86.50 HCA 110.50 SMA 116.84 ECC .31516 INC 3.5000 V1 30.216
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.439 GAP -17.84 AZP 91.23 TAL 155.28 TAP 265.78 RCA 80.02 APO 153.67 V2 35.174
 RC 44.782 GL 12.52 GP -1.06 ZAL 46.21 ZAP 2.67 ETS 157.65 ZAE 156.05 ETE 210.61 ZAC 98.46 ETC 166.80 CLP 2.45

PLANETOCENTRIC CONIC

C3 50.976 VHL 7.140 DLA 21.67 RAL 19.29 RAD 6568.9 VEL 13.128 PTH 2.40 VHP 11.357 OPA -2.39 RAP 5.29 ECC 1.8389
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 40 54 3198.32 -26.11 110.63 266.29 78.64 5 34 13 2598.3 -27.42 102.20
 90.00 22 58 6 4340.21 4.55 179.82 255.30 62.02 24 10 26 3740.2 .77 173.17
 100.00 6 17 22 2887.32 -28.19 88.19 266.74 79.62 7 5 29 2287.3 -29.33 79.58
 100.00 0 8 16 4126.45 6.41 163.09 254.29 60.74 1 17 2 3526.4 2.46 156.53
 110.00 7 57 12 2574.93 -33.36 65.44 267.71 82.06 8 40 7 1974.9 -34.10 56.27
 110.00 0 44 54 4011.60 10.90 151.66 251.57 57.40 1 51 46 3411.6 6.52 145.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0205 TRA-2.2605 TC3 -.2091 BAU .1534 SGT 2137.8 SGR 398.2 SG3 145.6 ST 1006.8 SR 355.0 SS 893.7
 RDE -.4392 RRA .1646 RC3 -.0832 FAU .01941 RRT .0547 RRF -.0439 RTF -.9043 CRT .7377 CRS .8248 CST .9898
 FDE 1.0066 FRA 1.6230 FC3 -.3296 BSP 6857 SGB 2174.5 R23 .0073 R13 -.9043 LSA 1371.7 MSA 237.7 SSA 16.6
 BDE 1.1110 BRA 2.2664 BC3 .2251 FSP -400 SG1 2137.9 SG2 397.6 THA .60 EL1 1042.1 EL2 231.6 ALF 15.36

LAUNCH DATE DEC 3 1968

FLIGHT TIME 118.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 281.948

RL 147.45 LAL -0.00 LOL 70.90 VL 25.954 GAL 10.01 AZL 86.48 MCA 113.73 SMA 117.81 ECC .30269 INC 3.5214 VI 30.216
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.557 GAP -16.95 AZP 91.42 TAL 154.95 TAP 268.68 RCA 82.15 APO 153.47 V2 35.164
 RC 43.971 GL 13.18 GP -1.15 ZAL 46.09 ZAP 1.54 ETS 132.97 ZAE 158.31 ETE 214.42 ZAC 100.23 ETC 166.87 CLP 1.03

PLANETOCENTRIC CONIC

C3 47.384 VHL 6.884 OLA 22.39 RAL 19.28 RAD 6568.8 VEL 12.990 PTH 2.37 VHP 10.852 DPA -1.72 RAP 6.97 ECC 1.7798
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 29 3213.89 -25.90 111.72 265.89 78.13 5 25 3 2613.9 -27.28 103.32
 90.00 23 7 29 4288.15 2.88 176.90 254.52 61.82 24 18 58 3688.2 -.91 170.27
 100.00 6 9 9 2898.99 -28.04 89.03 265.57 79.20 6 57 28 2299.0 -29.25 80.43
 100.00 0 16 27 4078.29 4.80 160.42 253.47 60.46 1 24 25 3478.3 .83 153.88
 110.00 7 51 3 2580.16 -33.31 65.84 266.59 81.83 8 34 4 1980.2 -34.08 56.68
 110.00 0 51 1 3969.89 9.36 149.41 250.68 56.97 1 57 11 3369.9 4.94 143.10

DIFFERENTIAL CORRECTIONS

TDE-1.0285 TRA-2.2391 TC3 -.1962 BAU .1362
 RDE -.4097 RRA .1496 RC3 -.0879 FAU .02047
 FDE 1.0663 FRA 1.6891 FC3 -.3739 BSP 7167
 BDE 1.1071 BRA 2.2441 BC3 .2150 FSP -441

MID-COURSE EXECUTION ACCURACY

SGT 2206.6 SGR 386.1 SG3 158.5
 RRT .0624 RRF -.0503 RTF -.9106
 SGB 2240.1 R23 .0083 R13 -.9106
 SG1 2206.7 SG2 385.3 THA .65

ORBIT DETERMINATION ACCURACY

ST 1048.1 SR 343.4 SS 935.7
 CRT .7432 CRS .8291 CST .9899
 LSA 1427.7 MSA 231.3 SSA 16.5
 EL1 1080.2 EL2 222.9 ALF 14.31

LAUNCH DATE DEC 3 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 288.752

RL 147.45 LAL -0.00 LOL 70.90 VL 26.123 GAL 9.59 AZL 86.46 MCA 116.96 SMA 118.73 ECC .29089 INC 3.5438 VI 30.216
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.666 GAP -16.09 AZP 91.61 TAL 154.66 TAP 271.61 RCA 84.19 APO 153.27 V2 35.153
 RC 43.319 GL 13.87 GP -1.24 ZAL 46.03 ZAP 1.31 ETS 72.23 ZAE 160.55 ETE 219.16 ZAC 101.98 ETC 166.94 CLP -.43

PLANETOCENTRIC CONIC

C3 44.112 VHL 6.642 OLA 23.12 RAL 19.23 RAD 6568.7 VEL 12.864 PTH 2.34 VHP 10.362 DPA -1.08 RAP 8.63 ECC 1.7260
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 21 13 3231.64 -25.65 112.95 263.83 77.56 5 15 5 2631.6 -27.10 104.59
 90.00 23 17 18 4234.48 1.15 173.90 253.76 61.70 24 27 53 3634.5 -2.64 167.27
 100.00 6 0 17 2912.22 -27.87 89.98 264.35 78.73 6 48 50 2312.2 -29.14 81.40
 100.00 0 24 51 4029.13 3.14 157.71 252.66 60.26 1 32 1 3429.1 -.84 151.19
 110.00 7 44 29 2586.24 -33.25 66.30 265.43 81.56 8 27 35 1986.2 -34.06 57.16
 110.00 0 57 9 3927.87 7.79 147.17 249.79 56.61 2 2 37 3327.9 3.34 140.90

DIFFERENTIAL CORRECTIONS

TDE-1.0388 TRA-2.2178 TC3 -.1822 BAU .1205
 RDE -.3811 RRA .1355 RC3 -.0924 FAU .02161
 FDE 1.1333 FRA 1.7612 FC3 -.4241 BSP 7420
 BDE 1.1065 BRA 2.2219 BC3 .2043 FSP -484

MID-COURSE EXECUTION ACCURACY

SGT 2278.0 SGR 373.2 SG3 172.9
 RRT .0706 RRF -.0567 RTF -.9164
 SGB 2308.3 R23 .0098 R13 -.9164
 SG1 2278.1 SG2 372.3 THA .68

ORBIT DETERMINATION ACCURACY

ST 1092.1 SR 331.0 SS 981.5
 CRT .7494 CRS .8336 CST .9901
 LSA 1488.3 MSA 224.4 SSA 16.4
 EL1 1121.0 EL2 213.5 ALF 13.29

LAUNCH DATE DEC 3 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 295.556

RL 147.45 LAL -0.00 LOL 70.90 VL 26.279 GAL 9.18 AZL 86.43 MCA 120.18 SMA 119.61 ECC .27975 INC 3.5676 VI 30.216
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.767 GAP -15.26 AZP 91.80 TAL 154.40 TAP 274.58 RCA 86.15 APO 153.07 V2 35.141
 RC 42.834 GL 14.58 GP -1.35 ZAL 46.01 ZAP 2.34 ETS 36.55 ZAE 162.71 ETE 225.14 ZAC 103.69 ETC 167.00 CLP -1.91

PLANETOCENTRIC CONIC

C3 41.135 VHL 6.414 OLA 23.84 RAL 19.12 RAD 6568.6 VEL 12.748 PTH 2.32 VHP 9.889 DPA -.45 RAP 10.26 ECC 1.6770
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 9 59 3252.07 -25.34 114.37 262.51 76.92 5 4 11 2652.1 -26.89 106.05
 90.00 23 27 42 4178.81 -.65 170.80 253.03 61.69 24 37 20 3578.8 -4.43 164.16
 100.00 5 50 42 2927.31 -27.67 91.05 263.08 78.20 6 39 30 2327.3 -29.01 82.51
 100.00 0 33 35 3978.81 1.44 154.94 251.87 60.14 1 39 54 3378.8 -2.55 148.42
 110.00 7 37 27 2593.34 -33.18 66.84 264.24 81.24 8 20 41 1993.3 -34.03 57.71
 110.00 1 3 19 3885.54 6.20 144.92 248.92 56.32 2 8 5 3285.5 1.73 138.69

DIFFERENTIAL CORRECTIONS

TDE-1.0502 TRA-2.1938 TC3 -.1655 BAU .1054
 RDE -.3532 RRA .1225 RC3 -.0969 FAU .02288
 FDE 1.2079 FRA 1.8390 FC3 -.4816 BSP 7667
 BDE 1.1080 BRA 2.1972 BC3 .1917 FSP -532

MID-COURSE EXECUTION ACCURACY

SGT 2348.7 SGR 359.6 SG3 188.7
 RRT .0783 RRF -.0622 RTF -.9218
 SGB 2376.1 R23 .0117 R13 -.9218
 SG1 2348.9 SG2 358.5 THA .70

ORBIT DETERMINATION ACCURACY

ST 1137.3 SR 317.6 SS 1030.6
 CRT .7558 CRS .8381 CST .9903
 LSA 1552.1 MSA 217.2 SSA 16.3
 EL1 1163.1 EL2 203.4 ALF 12.30

LAUNCH DATE DEC 3 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 302.358

RL 147.45 LAL -0.00 LOL 70.90 VL 26.425 GAL 8.80 AZL 86.41 MCA 123.41 SMA 120.44 ECC .26925 INC 3.5929 VI 30.216
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.860 GAP -14.45 AZP 91.98 TAL 154.18 TAP 277.59 RCA 88.01 APO 152.87 V2 35.129
 RC 42.524 GL 15.31 GP -1.47 ZAL 46.06 ZAP 3.73 ETS 24.66 ZAE 164.69 ETE 232.72 ZAC 105.38 ETC 167.06 CLP -3.43

PLANETOCENTRIC CONIC

C3 38.429 VHL 6.199 OLA 24.57 RAL 18.96 RAD 6568.5 VEL 12.641 PTH 2.29 VHP 9.431 DPA .14 RAP 11.86 ECC 1.6324
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 33 3275.94 -24.96 116.02 261.14 76.18 4 52 9 2675.9 -26.62 107.74
 90.00 23 38 51 4120.58 -2.52 167.55 252.34 61.79 24 47 32 3520.6 -6.28 160.88
 100.00 5 40 18 2944.67 -27.42 92.28 261.78 77.60 6 29 22 2344.7 -28.85 83.77
 100.00 0 42 44 3927.09 -.32 152.11 251.11 60.11 1 48 11 3327.1 -4.29 145.58
 110.00 7 29 57 2601.62 -33.09 67.47 263.02 80.88 8 13 18 2001.6 -33.99 58.35
 110.00 1 9 34 3842.90 4.58 142.68 248.06 56.09 2 13 37 3242.9 .10 136.47

DIFFERENTIAL CORRECTIONS

TDE-1.0624 TRA-2.1683 TC3 -.1458 BAU .0912
 RDE -.3260 RRA .1106 RC3 -.1011 FAU .02430
 FDE 1.2913 FRA 1.9236 FC3 -.5473 BSP 7898
 BDE 1.1113 BRA 2.1711 BC3 .1774 FSP -585

MID-COURSE EXECUTION ACCURACY

SGT 2419.3 SGR 345.2 SG3 206.4
 RRT .0848 RRF -.0665 RTF -.9270
 SGB 2443.8 R23 .0138 R13 -.9269
 SG1 2419.5 SG2 343.9 THA .71

ORBIT DETERMINATION ACCURACY

ST 1183.7 SR 303.3 SS 1083.7
 CRT .7622 CRS .8425 CST .9906
 LSA 1619.7 MSA 209.8 SSA 16.1
 EL1 1206.7 EL2 192.6 ALF 11.34

LAUNCH DATE DEC 3 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 309.156

RL 147.45 LAL -.00 LOL 70.90 VL 26.560 GAL 8.43 AZL 86.38 MCA 126.63 SMA 121.23 ECC .25936 INC 3.6202 VI 30.216
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.946 GAP -13.67 AZP 92.16 TAL 154.00 TAP 280.63 RCA 89.79 APO 152.67 V2 35.117
 RC 42.392 GL 16.06 GP -1.62 ZAL 46.15 ZAP 5.24 ETS 19.45 ZAE 166.36 ETE 242.24 ZAC 107.02 ETC 167.12 CLP -4.99

PLANETOCENTRIC CONIC

C3 35.974 VHL 5.998 DLA 25.31 RAL 18.75 RAD 6568.4 VEL 12.544 PTH 2.27 VHP 8.988 DPA .69 RAP 13.44 ECC 1.5920
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 36 3304.31 -24.48 117.96 259.71 75.31 4 38 41 2704.3 -26.27 109.74
 90.00 23 51 7 4058.85 -4.50 164.09 251.70 62.01 24 58 46 3458.8 -8.21 157.38
 100.00 5 28 55 2964.81 -27.12 93.70 260.43 76.91 6 18 19 2364.8 -28.65 85.23
 100.00 0 52 26 3873.59 -2.13 149.17 250.39 60.18 1 57 0 3273.6 -6.08 142.61
 110.00 7 21 55 2611.27 -32.98 68.21 261.78 80.46 8 5 26 2011.3 -33.95 59.10
 110.00 1 15 55 3799.89 2.95 140.43 247.22 55.93 2 19 15 3199.9 -1.55 134.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0751 TRA-2.1399 TC3 -.1230 BAU .0779 SGT 2487.9 SGR 330.0 SG3 226.0 ST 1230.9 SR 287.8 SS 1140.9
 RDE -.2994 RRA .1000 RC3 -.1052 FAU .02587 RRT .0894 RRF -.0684 RTF -.9317 CRT .7686 CRS .8467 CST .9909
 FDE 1.3847 FRA 2.0155 FC3 -.6226 BSP 8131 SGB 2509.7 R23 .0165 R13 -.9317 LSA 1690.7 MSA 202.3 SSA 15.9
 BDE 1.1161 BRA 2.1422 BC3 .1619 FSP -644 SG1 2488.1 SG2 328.7 THA .69 EL1 1251.0 EL2 181.2 ALF 10.41

LAUNCH DATE DEC 3 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 315.946

RL 147.45 LAL -.00 LOL 70.90 VL 26.685 GAL 8.09 AZL 86.35 MCA 129.85 SMA 121.98 ECC .25007 INC 3.6498 VI 30.216
 RP 107.95 LAP 2.80 LOP 200.81 VP 37.024 GAP -12.92 AZP 92.34 TAL 153.86 TAP 283.71 RCA 91.47 APO 152.48 V2 35.105
 RC 42.442 GL 16.83 GP -1.79 ZAL 46.30 ZAP 6.83 ETS 16.69 ZAE 167.58 ETE 253.77 ZAC 108.63 ETC 167.17 CLP -6.59

PLANETOCENTRIC CONIC

C3 33.751 VHL 5.810 DLA 26.05 RAL 18.49 RAD 6568.3 VEL 12.455 PTH 2.25 VHP 8.560 DPA 1.21 RAP 14.98 ECC 1.5555
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 27 37 3338.98 -23.87 120.31 258.19 74.29 4 23 16 2739.0 -25.79 112.17
 90.00 0 8 58 3991.97 -6.63 160.33 251.14 62.41 1 15 30 3392.0 -10.27 153.54
 100.00 5 16 21 2988.44 -26.74 95.36 259.03 76.12 6 6 10 2388.4 -28.39 86.94
 100.00 1 2 55 3817.74 -4.02 146.10 249.71 60.35 2 6 33 3217.7 -7.93 139.50
 110.00 7 13 18 2622.50 -32.85 69.06 260.52 79.97 7 57 1 2022.5 -33.89 59.97
 110.00 1 22 27 3756.44 1.29 138.16 246.41 55.84 2 25 3 3156.4 -3.20 131.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0885 TRA-2.1090 TC3 -.0974 BAU .0660 SGT 2554.4 SGR 314.1 SG3 247.9 ST 1278.6 SR 271.2 SS 1202.9
 RDE -.2733 RRA .0908 RC3 -.1091 FAU .02762 RRT .0909 RRF -.0668 RTF -.9362 CRT .7746 CRS .8504 CST .9912
 FDE 1.4900 FRA 2.1158 FC3 -.7085 BSP 8354 SGB 2573.6 R23 .0197 R13 -.9362 LSA 1765.6 MSA 194.7 SSA 15.6
 BDE 1.1223 BRA 2.1109 BC3 .1462 FSP -710 SG1 2554.5 SG2 312.7 THA .65 EL1 1296.1 EL2 169.2 ALF 9.49

LAUNCH DATE DEC 3 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 322.727

RL 147.45 LAL -.00 LOL 70.90 VL 26.802 GAL 7.76 AZL 86.32 MCA 133.07 SMA 122.68 ECC .24136 INC 3.6823 VI 30.216
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.096 GAP -12.19 AZP 92.52 TAL 153.75 TAP 286.82 RCA 93.07 APO 152.29 V2 35.092
 RC 42.671 GL 17.62 GP -1.98 ZAL 46.50 ZAP 8.48 ETS 15.09 ZAE 168.22 ETE 266.76 ZAC 110.20 ETC 167.24 CLP -8.24

PLANETOCENTRIC CONIC

C3 31.742 VHL 5.634 DLA 26.79 RAL 18.18 RAD 6568.3 VEL 12.374 PTH 2.23 VHP 8.147 DPA 1.67 RAP 16.49 ECC 1.5224
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 8 33 3383.33 -23.02 123.28 256.57 73.03 4 4 56 2783.3 -25.12 115.25
 90.00 0 25 33 3916.69 -8.98 156.04 250.70 63.03 1 30 50 3316.7 -12.53 149.16
 100.00 5 2 17 3016.64 -26.27 97.32 257.59 75.19 5 52 34 2416.6 -28.04 88.97
 100.00 1 14 30 3758.61 -6.00 142.83 249.09 60.66 2 17 8 3158.6 -9.86 136.17
 110.00 7 4 4 2635.59 -32.69 70.05 259.25 79.41 7 48 0 2035.6 -33.81 60.99
 110.00 1 29 12 3712.43 -1.40 135.86 245.62 55.82 2 31 5 3112.4 -4.88 129.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1003 TRA-2.0735 TC3 -.0661 BAU .0555 SGT 2614.9 SGR 297.3 SG3 272.2 ST 1324.5 SR 253.2 SS 1269.3
 RDE -.2473 RRA .0831 RC3 -.1127 FAU .02962 RRT .0864 RRF -.0593 RTF -.9406 CRT .7793 CRS .8533 CST .9915
 FDE 1.6077 FRA 2.2245 FC3 -.8079 BSP 8619 SGB 2631.8 R23 .0231 R13 -.9405 LSA 1842.3 MSA 187.4 SSA 15.2
 BDE 1.1278 BRA 2.0752 BC3 .1307 FSP -786 SG1 2615.1 SG2 296.2 THA .57 EL1 1339.3 EL2 156.9 ALF 8.59

LAUNCH DATE DEC 3 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 329.497

RL 147.45 LAL -.00 LOL 70.90 VL 26.909 GAL 7.45 AZL 86.28 MCA 136.29 SMA 123.34 ECC .23321 INC 3.7184 VI 30.216
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.162 GAP -11.48 AZP 92.69 TAL 153.67 TAP 289.96 RCA 94.57 APO 152.10 V2 35.080
 RC 43.078 GL 18.44 GP -2.21 ZAL 46.74 ZAP 10.20 ETS 14.15 ZAE 168.25 ETE 279.92 ZAC 111.71 ETC 167.31 CLP -9.96

PLANETOCENTRIC CONIC

C3 29.932 VHL 5.471 DLA 27.54 RAL 17.82 RAD 6568.2 VEL 12.301 PTH 2.22 VHP 7.747 DPA 2.08 RAP 17.95 ECC 1.4926
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 43 42 3446.05 -21.71 127.42 254.74 71.36 3 41 8 2846.1 -24.06 119.53
 90.00 0 47 32 3824.47 -11.78 150.72 250.49 64.06 1 51 16 3224.5 -15.17 143.68
 100.00 4 46 11 3051.20 -25.64 99.70 256.07 74.09 5 37 2 2451.2 -27.58 91.43
 100.00 1 27 44 3694.55 -8.12 139.26 248.57 61.13 2 29 18 3094.6 -11.91 132.52
 110.00 6 54 7 2650.87 -32.49 71.19 257.97 78.75 7 38 18 2050.9 -33.70 62.17
 110.00 1 36 17 3667.65 -2.11 133.53 244.88 55.87 2 37 25 3067.7 -6.57 127.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1146 TRA-2.0377 TC3 -.0348 BAU .0486 SGT 2675.2 SGR 279.9 SG3 299.5 ST 1372.6 SR 233.6 SS 1342.2
 RDE -.2215 RRA .0771 RC3 -.1164 FAU .03180 RRT .0752 RRF -.0440 RTF -.9445 CRT .7829 CRS .8549 CST .9919
 FDE 1.7423 FRA 2.3449 FC3 -.9199 BSP 8817 SGB 2689.8 R23 .0279 R13 -.9444 LSA 1925.4 MSA 180.2 SSA 14.7
 BDE 1.1364 BRA 2.0392 BC3 .1215 FSP -868 SG1 2675.3 SG2 279.1 THA .46 EL1 1384.8 EL2 144.0 ALF 7.67

LAUNCH DATE DEC 3 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 336.254

RL 147.45 LAL -.00 LOL 70.90 VL 27.009 GAL 7.16 AZL 86.24 HCA 139.50 SMA 123.95 ECC .22560 INC 3.7590 V1 30.216
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.222 GAP -10.79 AZP 92.86 TAL 153.63 TAP 293.13 RCA 95.99 APO 151.92 V2 35.067
 RC 43.658 GL 19.28 GP -2.49 ZAL 47.04 ZAP 12.00 ETS 13.62 ZAE 167.72 ETE 291.82 ZAC 113.16 ETC 167.40 CLP -11.74

PLANETOCENTRIC CONIC

C3 28.306 VHL 5.320 CLA 28.31 RAL 17.41 RAD 6568.1 VEL 12.234 PTH 2.20 VHP 7.362 DPA 2.41 RAP 19.37 ECC 1.4658
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 51 8 3598.11 -18.09 137.10 251.88 67.84 2 51 6 2998.1 -20.94 129.59
 90.00 1 36 50 3644.48 -16.88 139.96 251.35 66.92 2 37 34 3044.5 -19.86 132.56
 100.00 4 26 58 3095.54 -24.78 102.71 254.45 72.72 5 18 33 2495.5 -26.91 94.56
 100.00 1 43 41 3622.28 -10.47 135.18 248.19 61.84 2 44 3 3022.3 -14.16 128.33
 110.00 6 43 18 2668.79 -32.25 72.53 256.67 78.00 7 27 47 2068.8 -33.57 63.55
 110.00 1 43 50 3621.80 -3.86 131.13 244.18 56.01 2 44 12 3021.8 -8.29 124.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1264 TRA -1.9968 TC3 .0024 BAU .0454
 RDE -.1952 RRA .0731 RC3 -.1200 FAU .03432
 FDE 1.8937 FRA 2.4756 FC3 -1.0497 BSP 9056
 BDE 1.1432 BRA 1.9981 BC3 .1200 FSP -964

SGT 2727.1 SGR 261.8 SG3 329.9
 RRT .0508 RRF -.0153 RTF -.9482
 SGB 2739.6 R23 .0334 R13 -.9482
 SG1 2727.1 SG2 261.4 THA .28

ST 1417.2 SR 212.0 SS 1420.3
 CRT .7835 CRS .8541 CST .9922
 LSA 2010.1 MSA 173.6 SSA 14.1
 EL1 1427.0 EL2 130.8 ALF 6.74

LAUNCH DATE DEC 3 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 342.997

RL 147.45 LAL -.00 LOL 70.90 VL 27.101 GAL 6.89 AZL 86.19 HCA 142.71 SMA 124.53 ECC .21852 INC 3.8053 V1 30.216
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.276 GAP -10.12 AZP 93.03 TAL 153.61 TAP 296.33 RCA 97.32 APO 151.74 V2 35.053
 RC 44.405 GL 20.16 GP -2.82 ZAL 47.38 ZAP 13.88 ETS 13.38 ZAE 166.80 ETE 301.60 ZAC 114.56 ETC 167.53 CLP -13.59

PLANETOCENTRIC CONIC

C3 26.853 VHL 5.182 CLA 29.08 RAL 16.95 RAD 6568.1 VEL 12.175 PTH 2.18 VHP 6.992 DPA 2.65 RAP 20.75 ECC 1.4419
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.08 0 44 59 3793.06 -18.29 151.49 250.50 66.99 1 48 12 3193.1 -21.25 144.01
 96.92 2 39 19 3423.30 -18.28 124.36 250.49 66.98 3 36 22 2823.3 -21.24 116.88
 100.00 4 1 54 3158.34 -23.44 106.90 252.62 70.90 4 54 32 2558.3 -25.83 98.91
 100.00 2 5 5 3533.25 -13.28 130.06 248.07 62.97 3 3 58 2933.2 -16.80 123.04
 110.00 6 31 27 2690.00 -31.94 74.11 255.36 77.11 7 16 17 2090.0 -33.38 65.18
 110.00 1 52 1 3574.36 -5.66 128.64 243.54 56.23 2 51 36 2974.4 -10.06 122.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1388 TRA -1.9532 TC3 .0411 BAU .0469
 RDE -.1683 RRA .0714 RC3 -.1239 FAU .03712
 FDE 2.0670 FRA 2.6194 FC3 -1.1968 BSP 9274
 BDE 1.1512 BRA 1.9545 BC3 .1306 FSP -1070

SGT 2773.8 SGR 243.5 SG3 363.9
 RRT .0083 RRF .0326 RTF -.9517
 SGB 2784.5 R23 .0405 R13 -.9517
 SG1 2773.8 SG2 243.5 THA .04

ST 1461.2 SR 188.1 SS 1505.7
 CRT .7794 CRS .8493 CST .9925
 LSA 2099.8 MSA 167.4 SSA 13.4
 EL1 1468.6 EL2 117.2 ALF 5.77

LAUNCH DATE DEC 3 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 349.724

RL 147.45 LAL -.00 LOL 70.90 VL 27.185 GAL 6.63 AZL 86.14 HCA 145.92 SMA 125.07 ECC .21193 INC 3.8589 V1 30.216
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.325 GAP -9.48 AZP 93.20 TAL 153.63 TAP 299.55 RCA 98.56 APO 151.58 V2 35.040
 RC 45.309 GL 21.07 GP -3.22 ZAL 47.77 ZAP 15.86 ETS 13.38 ZAE 165.64 ETE 309.12 ZAC 115.88 ETC 167.70 CLP -15.54

PLANETOCENTRIC CONIC

C3 25.563 VHL 5.056 CLA 29.88 RAL 16.44 RAD 6568.0 VEL 12.122 PTH 2.17 VHP 6.635 DPA 2.80 RAP 22.07 ECC 1.4207
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.04 0 19 11 3857.05 -19.10 156.59 249.40 66.58 1 23 28 3257.0 -22.11 149.08
 99.96 3 1 2 3334.93 -19.08 118.19 249.39 66.56 3 56 37 2734.9 -22.09 110.68
 100.00 3 8 51 3309.95 -19.73 116.63 249.69 67.08 4 4 1 2710.0 -22.67 109.06
 100.00 2 54 3 3357.25 -18.45 119.56 249.10 66.06 3 50 0 2757.3 -21.53 112.11
 110.00 6 18 15 2715.45 -31.54 75.99 254.04 76.07 7 3 30 2115.5 -33.13 67.12
 110.00 2 1 9 3524.52 -7.54 126.00 242.98 56.56 2 59 53 2924.5 -11.88 119.60

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1424 TRA -1.8981 TC3 .0944 BAU .0544
 RDE -.1398 RRA .0726 RC3 -.1282 FAU .04058
 FDE 2.2583 FRA 2.7701 FC3 -1.3744 BSP 9675
 BDE 1.1510 BRA 1.8986 BC3 .1593 FSP -1205

SGT 2799.9 SGR 225.6 SG3 401.4
 RRT -.0673 RRF .1127 RTF -.9553
 SGB 2809.0 R23 -.0480 R13 .9553
 SG1 2799.9 SG2 225.1 THA 179.69

ST 1493.3 SR 161.0 SS 1593.9
 CRT .7649 CRS .8363 CST .9927
 LSA 2184.0 MSA 162.3 SSA 12.4
 EL1 1498.4 EL2 103.4 ALF 4.74

LAUNCH DATE DEC 3 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 356.432

RL 147.45 LAL -.00 LOL 70.90 VL 27.263 GAL 6.39 AZL 86.08 HCA 149.13 SMA 125.57 ECC .20582 INC 3.9220 V1 30.216
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.369 GAP -8.85 AZP 93.37 TAL 153.66 TAP 302.79 RCA 99.73 APO 151.42 V2 35.027
 RC 46.364 GL 22.02 GP -3.72 ZAL 48.21 ZAP 17.95 ETS 13.58 ZAE 164.39 ETE 314.61 ZAC 117.13 ETC 167.92 CLP -17.58

PLANETOCENTRIC CONIC

C3 24.427 VHL 4.942 CLA 30.71 RAL 15.87 RAD 6568.0 VEL 12.075 PTH 2.16 VHP 6.292 DPA 2.80 RAP 23.34 ECC 1.4020
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.60 23 54 45 3903.81 -19.90 160.45 248.32 66.12 24 59 49 3303.8 -22.96 152.93
 102.40 3 16 59 3265.78 -19.89 113.40 248.31 66.11 4 11 25 2665.8 -22.95 105.88
 77.60 23 54 45 3903.81 -19.90 160.45 248.32 66.12 24 59 49 3303.8 -22.96 152.93
 102.40 3 16 59 3265.78 -19.89 113.40 248.31 66.11 4 11 25 2665.8 -22.95 105.88
 110.00 6 3 11 2746.71 -31.00 78.26 252.67 74.82 6 48 57 2146.7 -32.77 69.49
 110.00 2 11 40 3470.87 -9.54 123.13 242.53 57.02 3 9 31 2870.9 -13.81 116.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1135 TRA -1.8070 TC3 .2027 BAU .0792
 RDE -.1087 RRA .0775 RC3 -.1330 FAU .04583
 FDE 2.4476 FRA 2.9028 FC3 -1.6244 BSP 10830
 BDE 1.1188 BRA 1.8086 BC3 .2424 FSP -1419

SGT 2764.5 SGR 209.9 SG3 440.1
 RRT -.2037 RRF .2454 RTF -.9601
 SGB 2772.4 R23 -.0498 R13 .9602
 SG1 2764.8 SG2 205.5 THA 179.11

ST 1483.4 SR 129.9 SS 1669.6
 CRT .7251 CRS .8035 CST .9924
 LSA 2231.5 MSA 159.5 SSA 11.0
 EL1 1486.4 EL2 89.3 ALF 3.65

LAUNCH DATE DEC 3 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 363.132

RL 147.45 LAL -.00 LOL 70.90 VL 27.334 GAL 6.17 AZL 86.00 HCA 152.33 SMA 126.03 ECC .20020 INC 3.9983 V1 30.216
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.409 GAP -8.24 AZP 93.54 TAL 153.71 TAP 306.04 RCA 100.80 APO 151.27 V2 35.013
 RC 47.558 GL 23.03 GP -4.35 ZAL 48.69 ZAP 20.17 ETS 14.01 ZAE 163.14 ETE 318.39 ZAC 118.31 ETC 168.24 CLP -19.72

PLANETOCENTRIC CONIC

C3 23.455 VHL 4.843 DLA 31.58 RAL 15.25 RAD 6568.0 VEL 12.035 PTH 2.15 VHP 5.965 DPA 2.65 RAP 24.56 ECC 1.3860
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.41 23 36 47 3942.75 -20.71 163.77 247.30 65.62 24 42 30 3342.8 -23.83 156.23
 104.59 3 30 2 3206.95 -20.70 109.36 247.29 65.61 4 23 29 2606.9 -23.82 101.81
 75.41 23 36 47 3942.75 -20.71 163.77 247.30 65.62 24 42 30 3342.8 -23.83 156.23
 104.59 3 30 2 3206.95 -20.70 109.36 247.29 65.61 4 23 29 2606.9 -23.82 101.81
 110.00 5 45 24 2786.71 -30.25 81.14 251.25 73.27 6 31 50 2186.7 -32.24 72.49
 110.00 2 24 32 3410.98 -11.74 119.89 242.26 57.66 3 21 23 2811.0 -15.92 113.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2062 TRA-1.8347 TC3 .1060 BAU .0557 SGT 2922.0 SGR 202.6 SG3 497.1 ST 1618.8 SR 96.0 SS 1835.4
 RDE -.0753 RRA .0854 RC3 -.1424 FAU .04618 RRT -.3195 RRF .3914 RTF -.9590 CRT .6429 CRS .7231 CST .9938
 FDE 2.7945 FRA 3.1759 FC3-1.7043 BSP 9019 SGB 2929.0 R23 -.0882 R13 .9592 LSA 2444.4 MSA 152.0 SSA 10.8
 BOE 1.2086 BRA 1.8367 BC3 .1776 FSP -1412 SGI 2922.8 SG2 191.9 THA 178.73 EL1 1620.0 EL2 73.5 ALF 2.19

LAUNCH DATE DEC 3 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 369.806

RL 147.45 LAL -.00 LOL 70.90 VL 27.399 GAL 5.96 AZL 85.91 HCA 155.53 SMA 126.46 ECC .19501 INC 4.0926 V1 30.216
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.444 GAP -7.65 AZP 93.73 TAL 153.78 TAP 309.32 RCA 101.80 APO 151.12 V2 35.000
 RC 48.883 GL 24.13 GP -5.16 ZAL 49.24 ZAP 22.56 ETS 14.66 ZAE 161.92 ETE 320.65 ZAC 119.41 ETC 168.68 CLP -21.99

PLANETOCENTRIC CONIC

C3 22.631 VHL 4.757 DLA 32.51 RAL 14.55 RAD 6567.9 VEL 12.000 PTH 2.14 VHP 5.652 DPA 2.28 RAP 25.74 ECC 1.3724
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.32 23 19 56 3977.92 -21.54 166.86 246.30 65.04 24 26 14 3377.9 -24.72 159.29
 106.68 3 41 18 3154.34 -21.53 105.76 246.30 65.03 4 33 52 2554.3 -24.71 98.19
 73.32 23 19 56 3977.92 -21.54 166.86 246.30 65.04 24 26 14 3377.9 -24.72 159.29
 106.68 3 41 18 3154.34 -21.53 105.76 246.30 65.03 4 33 52 2554.3 -24.71 98.19
 110.00 5 22 46 2841.40 -29.12 84.99 249.66 71.25 6 10 7 2241.4 -31.40 76.53
 110.00 2 41 34 3338.85 -14.33 115.91 242.25 58.63 3 37 13 2738.9 -18.38 109.14

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2070 TRA-1.7662 TC3 .1595 BAU .0668 SGT 2915.3 SGR 208.4 SG3 550.2 ST 1638.9 SR 60.4 SS 1953.4
 RDE -.0351 RRA .1002 RC3 -.1529 FAU .05087 RRT -.5295 RRF .6039 RTF -.9618 CRT .2918 CRS .3941 CST .9939
 FDE 3.0965 FRA 3.3733 FC3-1.9461 BSP 9376 SGB 2922.8 R23 -.1094 R13 .9621 LSA 2546.1 MSA 149.8 SSA 9.5
 BOE 1.2075 BRA 1.7690 BC3 .2209 FSP -1599 SGI 2917.4 SG2 176.7 THA 177.82 EL1 1638.9 EL2 57.7 ALF .62

LAUNCH DATE DEC 3 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 376.461

RL 147.45 LAL -.00 LOL 70.90 VL 27.458 GAL 5.77 AZL 85.79 HCA 158.73 SMA 126.86 ECC .19025 INC 4.2133 V1 30.216
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.475 GAP -7.07 AZP 93.93 TAL 153.87 TAP 312.60 RCA 102.72 APO 150.99 V2 34.987
 RC 50.327 GL 25.35 GP -6.23 ZAL 49.88 ZAP 25.13 ETS 15.62 ZAE 160.74 ETE 321.48 ZAC 120.42 ETC 169.30 CLP -24.39

PLANETOCENTRIC CONIC

C3 21.974 VHL 4.688 DLA 33.55 RAL 13.76 RAD 6567.9 VEL 11.973 PTH 2.13 VHP 5.356 DPA 1.60 RAP 26.89 ECC 1.3616
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.21 23 3 20 4012.19 -22.39 169.93 245.36 64.34 24 10 12 3412.2 -25.65 162.35
 108.79 3 51 32 3105.78 -22.38 102.45 245.36 64.33 4 43 18 2505.8 -25.64 94.87
 71.21 23 3 20 4012.19 -22.39 169.93 245.36 64.34 24 10 12 3412.2 -25.65 162.35
 108.79 3 51 32 3105.78 -22.38 102.45 245.36 64.33 4 43 18 2505.8 -25.64 94.87
 110.00 4 48 50 2930.41 -27.01 91.06 247.60 68.21 5 37 40 2330.4 -29.72 82.92
 110.00 3 9 9 3235.56 -17.90 110.04 242.86 60.38 4 3 5 2635.6 -21.71 102.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2154 TRA-1.7002 TC3 .1958 BAU .0759 SGT 2908.2 SGR 240.4 SG3 610.1 ST 1663.2 SR 57.1 SS 2089.7
 RDE .0144 RRA .1230 RC3 -.1685 FAU .05566 RRT -.7219 RRF .7946 RTF -.9639 CRT -.7012 CRS -.6208 CST .9940
 FDE 3.4606 FRA 3.5920 FC3-2.1928 BSP 9515 SGB 2918.1 R23 -.1394 R13 .9644 LSA 2667.3 MSA 148.5 SSA 8.1
 BOE 1.2155 BRA 1.7046 BC3 .2583 FSP -1792 SGI 2913.4 SG2 166.1 THA 176.57 EL1 1663.7 EL2 40.7 ALF 178.62

LAUNCH DATE DEC 3 1968

FLIGHT TIME 148.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 383.097

RL 147.45 LAL -.00 LOL 70.90 VL 27.512 GAL 5.60 AZL 85.63 HCA 161.93 SMA 127.22 ECC .18591 INC 4.3742 V1 30.216
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.502 GAP -6.51 AZP 94.16 TAL 153.96 TAP 315.89 RCA 103.57 APO 150.87 V2 34.974
 RC 51.881 GL 26.76 GP -7.71 ZAL 50.62 ZAP 27.95 ETS 16.97 ZAE 159.54 ETE 320.83 ZAC 121.36 ETC 170.19 CLP -26.95

PLANETOCENTRIC CONIC

C3 21.510 VHL 4.638 DLA 34.74 RAL 12.82 RAD 6567.9 VEL 11.954 PTH 2.13 VHP 5.079 DPA .50 RAP 28.05 ECC 1.3540
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.98 22 46 11 4047.98 -23.29 173.20 244.48 63.46 23 53 39 3448.0 -26.65 165.61
 111.02 4 1 14 3059.70 -23.27 99.33 244.47 63.45 4 52 14 2459.7 -26.64 91.74
 68.98 22 46 11 4047.98 -23.29 173.20 244.48 63.46 23 53 39 3448.0 -26.65 165.61
 111.02 4 1 14 3059.70 -23.27 99.33 244.47 63.45 4 52 14 2459.7 -26.64 91.74
 68.98 22 46 11 4047.98 -23.29 173.20 244.48 63.46 23 53 39 3448.0 -26.65 165.61
 111.02 4 1 14 3059.70 -23.27 99.33 244.47 63.45 4 52 14 2459.7 -26.64 91.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2262 TRA-1.6291 TC3 .2238 BAU .0848 SGT 2887.2 SGR 311.8 SG3 676.2 ST 1683.6 SR 121.0 SS 2243.0
 RDE .0792 RRA .1574 RC3 -.1919 FAU .06073 RRT -.8493 RRF .9148 RTF -.9656 CRT -.9838 CRS -.9595 CST .9941
 FDE 3.8957 FRA 3.8184 FC3-2.4441 BSP 9589 SGB 2904.0 R23 -.1744 R13 .9665 LSA 2803.3 MSA 148.7 SSA 6.6
 BOE 1.2287 BRA 1.6367 BC3 .2948 FSP -2000 SGI 2899.4 SG2 163.9 THA 174.74 EL1 1687.8 EL2 21.7 ALF 175.95

LAUNCH DATE DEC 3 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 389.711

RL 147.45 LAL -.00 LOL 70.90 VL 27.561 GAL 5.44 AZL 85.40 HCA 165.12 SMA 127.54 ECC .18196 INC 4.6014 V1 30.216
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.526 GAP -5.97 AZP 94.45 TAL 154.06 TAP 319.18 RCA 104.34 APO 150.75 V2 34.961
 RC 53.536 GL 28.48 GP -9.83 ZAL 51.53 ZAP 31.11 ETS 18.92 ZAE 158.11 ETE 318.46 ZAC 122.24 ETC 171.54 CLP -29.67

PLANETOCENTRIC CONIC

C3 21.304 VHL 4.616 OLA 36.20 RAL 11.66 RAD 6567.9 VEL 11.945 PTH 2.13 VHP 4.825 DPA -1.28 RAP 29.32 ECC 1.3506
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.45 22 27 20 4088.35 -24.25 176.95 243.67 62.27 23 35 28 3488.3 -27.76 169.36
 113.55 4 10 51 3014.69 -24.24 96.30 243.66 62.26 5 1 5 2414.7 -27.75 88.72
 66.45 22 27 20 4088.35 -24.25 176.95 243.67 62.27 23 35 28 3488.3 -27.76 169.36
 113.55 4 10 51 3014.69 -24.24 96.30 243.66 62.26 5 1 5 2414.7 -27.75 88.72
 66.45 22 27 20 4088.35 -24.25 176.95 243.67 62.27 23 35 28 3488.3 -27.76 169.36
 113.55 4 10 51 3014.69 -24.24 96.30 243.66 62.26 5 1 5 2414.7 -27.75 88.72

DIFFERENTIAL CORRECTIONS

TDE-1.2451 TRA-1.5538 TC3 .2364 BAU .0934
 RDE .1716 RRA .2098 RC3 -.2273 FAU .06573
 FDE 4.4250 FRA 4.0379 FC3-2.6710 BSP .9557
 BOE 1.2568 BRA 1.5679 BC3 .3279 FSP -2216

MID-COURSE EXECUTION ACCURACY

SGT 2854.6 SGR 439.9 SG3 747.4
 RRT -.9128 RRF .9701 RTF -.9668
 SGB 2888.3 R23 -.2062 R13 .9686
 SG1 2882.8 SG2 177.9 THA 171.96

ORBIT DETERMINATION ACCURACY

ST 1703.8 SR 234.1 SS 2418.4
 CRT -.9997 CRS -.9950 CST .9942
 LSA 2963.7 MSA 150.6 SSA 5.2
 EL1 1719.8 EL2 5.7 ALF 172.18

LAUNCH DATE DEC 3 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 396.305

RL 147.45 LAL -.00 LOL 70.90 VL 27.605 GAL 5.29 AZL 85.05 HCA 168.31 SMA 127.84 ECC .17839 INC 4.9492 V1 30.216
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.546 GAP -5.44 AZP 94.85 TAL 154.16 TAP 322.47 RCA 105.04 APO 150.65 V2 34.948
 RC 55.282 GL 30.75 GP -13.12 ZAL 52.76 ZAP 34.82 ETS 21.85 ZAE 156.02 ETE 314.01 ZAC 123.09 ETC 173.69 CLP -32.55

PLANETOCENTRIC CONIC

C3 21.506 VHL 4.637 OLA 38.11 RAL 10.10 RAD 6567.9 VEL 11.953 PTH 2.13 VHP 4.609 DPA -4.18 RAP 30.88 ECC 1.3539
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.35 22 5 0 4137.84 -25.35 181.63 242.96 60.53 23 13 58 3537.8 -29.07 174.08
 116.65 4 20 41 2969.75 -25.34 93.31 242.95 60.52 5 10 11 2369.7 -29.06 85.76
 63.35 22 5 0 4137.84 -25.35 181.63 242.96 60.53 23 13 58 3537.8 -29.07 174.08
 116.65 4 20 41 2969.75 -25.34 93.31 242.95 60.52 5 10 11 2369.7 -29.06 85.76
 63.35 22 5 0 4137.84 -25.35 181.63 242.96 60.53 23 13 58 3537.8 -29.07 174.08
 116.65 4 20 41 2969.75 -25.34 93.31 242.95 60.52 5 10 11 2369.7 -29.06 85.76

DIFFERENTIAL CORRECTIONS

TDE-1.2764 TRA-1.4687 TC3 .2361 BAU .1056
 RDE .3181 RRA .2912 RC3 -.2815 FAU .07021
 FDE 5.0695 FRA 4.1992 FC3-2.8264 BSP .9548
 BOE 1.3154 BRA 1.4973 BC3 .3673 FSP -2433

MID-COURSE EXECUTION ACCURACY

SGT 2802.4 SGR 657.1 SG3 817.7
 RRT -.9404 RRF .9907 RTF -.9674
 SGB 2878.4 R23 -.2220 R13 .9712
 SG1 2870.1 SG2 218.2 THA 167.49

ORBIT DETERMINATION ACCURACY

ST 1722.1 SR 416.4 SS 2616.0
 CRT -.9969 CRS -.9995 CST .9942
 LSA 3155.7 MSA 155.0 SSA 3.8
 EL1 1771.4 EL2 32.0 ALF 166.44

LAUNCH DATE DEC 3 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 402.876

RL 147.45 LAL -.00 LOL 70.90 VL 27.645 GAL 5.16 AZL 84.45 HCA 171.50 SMA 128.11 ECC .17518 INC 5.5526 V1 30.216
 RP 108.47 LAP .82 LOP 242.44 VP 37.564 GAP -4.92 AZP 95.49 TAL 154.26 TAP 325.76 RCA 105.67 APO 150.56 V2 34.936
 RC 57.109 GL 34.13 GP -18.73 ZAL 54.65 ZAP 39.62 ETS 26.54 ZAE 152.06 ETE 307.13 ZAC 123.91 ETC 177.50 CLP -35.57

PLANETOCENTRIC CONIC

C3 22.552 VHL 4.749 OLA 40.93 RAL 7.66 RAD 6567.9 VEL 11.997 PTH 2.14 VHP 4.471 DPA -9.28 RAP 33.26 ECC 1.3711
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.11 21 35 26 4205.74 -26.61 188.17 242.37 57.68 22 45 31 3605.7 -30.67 180.73
 120.89 4 30 48 2924.83 -26.60 90.38 242.37 57.67 5 19 32 2324.8 -30.66 82.94
 59.11 21 35 26 4205.74 -26.61 188.17 242.37 57.68 22 45 31 3605.7 -30.67 180.73
 120.89 4 30 48 2924.83 -26.60 90.38 242.37 57.67 5 19 32 2324.8 -30.66 82.94
 59.11 21 35 26 4205.74 -26.61 188.17 242.37 57.68 22 45 31 3605.7 -30.67 180.73
 120.89 4 30 48 2924.83 -26.60 90.38 242.37 57.67 5 19 32 2324.8 -30.66 82.94

DIFFERENTIAL CORRECTIONS

TDE-1.3486 TRA-1.3721 TC3 .2128 BAU .1266
 RDE .5903 RRA .4231 RC3 -.3619 FAU .07188
 FDE 5.8591 FRA 4.1786 FC3-2.7595 BSP .9638
 BOE 1.4721 BRA 1.4358 BC3 .4198 FSP -2585

MID-COURSE EXECUTION ACCURACY

SGT 2736.7 SGR 1040.1 SG3 869.9
 RRT -.9516 RRF .9973 RTF -.9673
 SGB 2927.7 R23 -.2132 R13 .9761
 SG1 2912.2 SG2 300.4 THA 159.89

ORBIT DETERMINATION ACCURACY

ST 1754.9 SR 740.5 SS 2838.1
 CRT -.9943 CRS -1.0000 CST .9942
 LSA 3414.1 MSA 162.7 SSA 2.4
 EL1 1903.3 EL2 73.0 ALF 157.20

LAUNCH DATE DEC 3 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 409.424

RL 147.45 LAL -.00 LOL 70.90 VL 27.680 GAL 5.05 AZL 83.13 HCA 174.68 SMA 128.36 ECC .17233 INC 6.8715 V1 30.216
 RP 108.51 LAP .64 LOP 245.62 VP 37.579 GAP -4.42 AZP 96.84 TAL 154.34 TAP 329.03 RCA 106.24 APO 150.48 V2 34.923
 RC 59.010 GL 40.12 GP -29.98 ZAL 58.23 ZAP 47.31 ETS 34.77 ZAE 142.78 ETE 298.41 ZAC 124.34 ETC 185.52 CLP -38.49

PLANETOCENTRIC CONIC

C3 26.219 VHL 5.120 OLA 45.80 RAL 2.76 RAD 6568.1 VEL 12.149 PTH 2.18 VHP 4.589 DPA -19.47 RAP 38.17 ECC 1.4315
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.37 20 48 44 4315.51 -27.82 198.94 241.89 52.03 22 0 40 3715.5 -32.54 191.88
 127.63 4 38 25 2888.99 -27.81 88.13 241.88 52.02 5 26 34 2289.0 -32.53 81.07
 52.37 20 48 44 4315.51 -27.82 198.94 241.89 52.03 22 0 40 3715.5 -32.54 191.88
 127.63 4 38 25 2888.99 -27.81 88.13 241.88 52.02 5 26 34 2289.0 -32.53 81.07
 52.37 20 48 44 4315.51 -27.82 198.94 241.89 52.03 22 0 40 3715.5 -32.54 191.88
 127.63 4 38 25 2888.99 -27.81 88.13 241.88 52.02 5 26 34 2289.0 -32.53 81.07

DIFFERENTIAL CORRECTIONS

TDE-1.5691 TRA-1.2560 TC3 .1557 BAU .1687
 RDE 1.2396 RRA .6318 RC3 -.4555 FAU .06365
 FDE 6.6458 FRA 3.5499 FC3-2.1017 BSP 10336
 BOE 1.9997 BRA 1.4059 BC3 .4814 FSP -2471

MID-COURSE EXECUTION ACCURACY

SGT 2677.9 SGR 1780.4 SG3 830.5
 RRT -.9551 RRF .9990 RTF -.9667
 SGB 3215.7 R23 -.1668 R13 .9859
 SG1 3185.0 SG2 443.5 THA 146.86

ORBIT DETERMINATION ACCURACY

ST 1857.0 SR 1420.1 SS 3025.2
 CRT -.9933 CRS -.9999 CST .9944
 LSA 3819.2 MSA 175.2 SSA 1.1
 EL1 2334.1 EL2 130.8 ALF 142.64

LAUNCH DATE DEC 3 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 415.937

RL 147.45 LAL -.00 LOL 70.90 VL 27.712 GAL 4.95 AZL 77.92 HCA 177.85 SMA 128.57 ECC .16982 INC12.0819 V1 30.216
 RP 108.55 LAP .45 LOP 248.80 VP 37.591 GAP -3.93 AZP 102.08 TAL 154.41 TAP 332.27 RCA 106.74 APO 150.41 V2 34.911
 RC 60.976 GL 54.19 GP -58.17 ZAL 68.16 ZAP 65.36 ETS 52.49 ZAE 116.22 ETE 295.59 ZAC 120.43 ETC 208.81 CLP -37.76

PLANETOCENTRIC CONIC

C3 50.794 VHL 7.127 DLA 55.60 RAL 346.11 RAD 6568.9 VEL 13.121 PTH 2.40 VHP 6.685 DPA -43.28 RAP 56.44 ECC 1.8359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.92 19 2 36 4574.78 -23.83 221.09 238.52 38.14 20 18 51 3974.8 -30.01 215.81
 140.08 4 11 42 2961.98 -23.81 91.15 238.50 38.14 5 1 4 2362.0 -30.00 85.87
 39.92 19 2 36 4574.78 -23.83 221.09 238.52 38.14 20 18 51 3974.8 -30.01 215.81
 140.08 4 11 42 2961.98 -23.81 91.15 238.50 38.14 5 1 4 2362.0 -30.00 85.87
 39.92 19 2 36 4574.78 -23.83 221.09 238.52 38.14 20 18 51 3974.8 -30.01 215.81
 140.08 4 11 42 2961.98 -23.81 91.15 238.50 38.14 5 1 4 2362.0 -30.00 85.87

DIFFERENTIAL CORRECTIONS

TDE -3.1114 TRA -1.1038 TC3 .0006 BAU .1724
 RDE 3.6481 RRA -1.6213 RC3 -.2539 FAU .01797
 FDE 5.6076 FRA 1.1933 FC3 -.3062 BSP 12378
 BDE 4.7947 BRA 1.2667 BC3 .2539 FSP -1202

MID-COURSE EXECUTION ACCURACY

SGT 2953.6 SGR 3084.4 SG3 417.9
 RRT -.9577 RRF .9974 RTF -.9760
 SGB 4270.5 R23 -.0670 R13 .9978
 SG1 4225.2 SG2 620.5 THA 133.70

ORBIT DETERMINATION ACCURACY

ST 2545.3 SR 2944.8 SS 2620.5
 CRT -.9954 CRS -.9998 CST .9973
 LSA 4688.4 MSA 189.4 SSA .4
 EL1 3888.0 EL2 184.9 ALF 130.82

LAUNCH DATE DEC 3 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 422.531

RL 147.45 LAL -.00 LOL 70.90 VL 27.739 GAL 4.85 AZL 103.62 HCA 181.11 SMA 128.76 ECC .16748 INC13.6197 V1 30.216
 RP 108.58 LAP .26 LOP 251.98 VP 37.600 GAP -3.43 AZP 76.38 TAL 154.54 TAP 335.65 RCA 107.20 APO 150.33 V2 34.900
 RC 63.000 GL -56.88 GP 76.44 ZAL 70.41 ZAP 77.45 ETS 304.16 ZAE 104.28 ETE 63.55 ZAC 86.91 ETC 135.83 CLP -22.05

PLANETOCENTRIC CONIC

C3 60.378 VHL 7.770 DLA -44.31 RAL 43.70 RAD 6569.1 VEL 13.481 PTH 2.46 VHP 11.289 DPA 71.92 RAP 311.77 ECC 1.9937
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.37 11 41 26 1860.85 18.09 38.63 294.13 131.17 12 12 27 1260.9 23.24 32.50
 125.63 19 12 19 5761.03 18.11 269.32 294.14 131.16 20 48 20 5161.0 23.25 263.19
 54.37 11 41 26 1860.85 18.09 38.63 294.13 131.17 12 12 27 1260.9 23.24 32.50
 125.63 19 12 19 5761.03 18.11 269.32 294.14 131.16 20 48 20 5161.0 23.25 263.19
 54.37 11 41 26 1860.85 18.09 38.63 294.13 131.17 12 12 27 1260.9 23.24 32.50
 125.63 19 12 19 5761.03 18.11 269.32 294.14 131.16 20 48 20 5161.0 23.25 263.19

DIFFERENTIAL CORRECTIONS

TDE -.7837 TRA -2.8584 TC3 .0046 BAU .1888
 RDE .2388 RRA -3.4442 RC3 .2339 FAU .00743
 FDE .0771 FRA 2.0583 FC3 -.1066 BSP 15412
 BDE .8193 BRA 4.4758 BC3 .2339 FSP -621

MID-COURSE EXECUTION ACCURACY

SGT 3001.7 SGR 3572.1 SG3 183.9
 RRT .9657 RRF -.9968 RTF -.9833
 SGB 4665.8 R23 -.0286 R13 -.9996
 SG1 4626.9 SG2 601.3 THA 50.13

ORBIT DETERMINATION ACCURACY

ST 1055.9 SR 1079.3 SS 623.1
 CRT .7364 CRS .9682 CST .8823
 LSA 1537.5 MSA 551.4 SSA .4
 EL1 1406.9 EL2 548.0 ALF 45.85

LAUNCH DATE DEC 3 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 428.975

RL 147.45 LAL -.00 LOL 70.90 VL 27.763 GAL 4.78 AZL 90.99 HCA 184.26 SMA 128.93 ECC .16564 INC .9837 V1 30.216
 RP 108.62 LAP .07 LOP 255.15 VP 37.608 GAP -2.97 AZP 89.01 TAL 154.55 TAP 338.81 RCA 107.58 APO 150.29 V2 34.889
 RC 65.076 GL -7.52 GP 40.67 ZAL 45.23 ZAP 60.85 ETS 334.05 ZAE 141.16 ETE 74.97 ZAC 101.79 ETC 152.01 CLP -50.04

PLANETOCENTRIC CONIC

C3 13.378 VHL 3.658 DLA 3.09 RAL 26.98 RAD 6567.5 VEL 11.609 PTH 2.03 VHP 4.403 DPA 43.57 RAP 3.35 ECC 1.2202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 58 15 2218.51 -19.66 41.73 242.77 110.80 8 35 13 1618.5 -16.66 34.34
 90.00 20 42 10 4670.81 14.61 198.88 241.67 65.47 22 0 0 4070.8 11.18 191.88
 100.00 9 21 2 1951.48 -20.59 21.71 242.39 112.17 9 53 33 1351.5 -17.40 14.36
 100.00 22 2 4 4413.07 15.51 179.49 241.24 64.12 23 15 37 3813.1 11.90 172.56
 110.00 10 32 35 1727.53 -23.04 3.52 241.21 115.97 11 1 23 1127.5 -19.36 356.32
 110.00 23 7 0 4209.79 17.89 162.75 239.93 60.38 24 17 10 3609.8 13.82 156.02

DIFFERENTIAL CORRECTIONS

TDE -.4293 TRA -1.1184 TC3 .1720 BAU .2663
 RDE -.4991 RRA -1.7201 RC3 1.4790 FAU .07980
 FDE 1.8278 FRA 5.8767 FC3 -5.1644 BSP 11154
 BDE .6583 BRA 2.0518 BC3 1.4890 FSP -2708

MID-COURSE EXECUTION ACCURACY

SGT 1883.2 SGR 3010.6 SG3 895.7
 RRT .9518 RRF -.9998 RTF -.9515
 SGB 3551.1 R23 -.0861 R13 -.9961
 SG1 3516.5 SG2 494.3 THA 58.54

ORBIT DETERMINATION ACCURACY

ST 854.0 SR 1125.9 SS 1515.0
 CRT .9901 CRS .9994 CST .9943
 LSA 2069.5 MSA 97.3 SSA 5.7
 EL1 1409.9 EL2 95.7 ALF 52.89

LAUNCH DATE DEC 3 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 435.433

RL 147.45 LAL -.00 LOL 70.90 VL 27.784 GAL 4.73 AZL 89.11 HCA 187.43 SMA 129.08 ECC .16404 INC .8883 V1 30.216
 RP 108.65 LAP -.11 LOP 258.33 VP 37.613 GAP -2.51 AZP 90.88 TAL 154.57 TAP 342.00 RCA 107.90 APO 150.25 V2 34.878
 RC 67.198 GL 6.81 GP 26.99 ZAL 45.16 ZAP 59.61 ETS 344.84 ZAE 154.67 ETE 73.63 ZAC 106.72 ETC 156.05 CLP -55.41

PLANETOCENTRIC CONIC

C3 13.079 VHL 3.616 DLA 16.43 RAL 21.67 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 3.631 DPA 30.82 RAP 10.03 ECC 1.2152
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 41 2655.27 -27.26 71.34 241.48 97.98 6 31 56 2055.3 -25.87 62.95
 90.00 22 10 21 4224.25 .82 173.33 236.37 61.69 23 20 46 3624.3 -2.97 166.70
 100.00 7 18 16 2363.15 -28.45 49.65 241.28 99.60 7 57 39 1763.1 -26.83 41.22
 100.00 23 22 27 3991.61 1.87 155.65 235.78 60.16 24 28 59 3391.6 -2.11 149.13
 110.00 8 46 58 2085.63 -31.53 27.83 240.53 103.95 9 21 44 1485.6 -29.29 19.34
 110.00 0 14 11 3841.89 4.54 142.63 234.12 56.08 1 18 13 3241.9 .06 136.41

DIFFERENTIAL CORRECTIONS

TDE -.4033 TRA -.8811 TC3 .0701 BAU .1970
 RDE -.5219 RRA -1.1581 RC3 1.1243 FAU .11587
 FDE 3.8042 FRA 7.5807 FC3 -7.6697 BSP 9002
 BDE .6596 BRA 1.4393 BC3 1.1265 FSP -3993

MID-COURSE EXECUTION ACCURACY

SGT 1590.3 SGR 2208.8 SG3 1292.8
 RRT .9410 RRF -.9995 RTF -.9395
 SGB 2721.7 R23 -.1185 R13 -.9924
 SG1 2685.5 SG2 442.6 THA 54.78

ORBIT DETERMINATION ACCURACY

ST 773.9 SR 1001.1 SS 2228.6
 CRT .9997 CRS .9991 CST .9989
 LSA 2562.3 MSA 46.6 SSA 13.4
 EL1 1265.3 EL2 13.7 ALF 52.30

LAUNCH DATE DEC 3 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 441.873

RL 147.45 LAL -.00 LOL 70.90 VL 27.802 GAL 4.68 AZL 88.36 MCA 190.60 SMA 129.20 ECC .16272 INC 1.6425 V1 30.216
 RP 108.68 LAP -.30 LOP 261.50 VP 37.617 GAP -2.06 AZP 91.62 TAL 154.57 TAP 345.17 RCA 108.18 APO 150.23 V2 34.867
 RC 69.360 GL 12.55 GP 20.42 ZAL 46.21 ZAP 62.49 ETS 350.85 ZAE 161.43 ETE 76.51 ZAC 107.90 ETC 158.71 CLP -60.47

PLANETOCENTRIC CONIC

C3 13.368 VHL 3.656 DLA 21.71 RAL 19.28 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 3.320 DPA 24.18 RAP 11.64 ECC 1.2200
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 40 25 2875.29 -28.32 87.33 241.52 90.06 5 28 20 2275.3 -28.01 78.68
 90.00 22 58 33 4013.72 -5.94 161.55 235.79 62.26 24 5 27 3413.7 -9.61 154.80
 100.00 6 16 55 2564.10 -29.83 64.40 241.49 91.97 6 59 39 1964.1 -29.24 55.65
 100.00 0 8 40 3800.15 -4.61 145.13 235.06 60.43 1 12 0 3200.2 -8.51 138.52
 110.00 7 56 52 2251.39 -33.57 40.31 241.15 96.84 8 34 24 1651.4 -32.26 31.33
 110.00 0 45 12 3685.62 -1.42 134.46 233.08 55.84 1 46 38 3085.6 -5.89 128.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3293 TRA -.6868 TC3 -.0817 BAU .1573 SGT 1269.6 SGR 1775.7 SG3 1539.0 ST 622.2 SR 862.9 SS 2668.7
 RDE -.4718 RRA -.8786 RC3 .8761 FAU .13480 RRT .9137 RRF -.9987 RTF -.9112 CRT .9984 CRS .9984 CST .9939
 FDE 5.2509 FRA 8.5672 FC3-8.7298 BSP 7307 SGB 2182.9 R23 -.1406 R13 -.9888 LSA 2871.8 MSA 78.2 SSA 9.6
 BOE .5754 BRA 1.1152 BC3 .8799 FSP -4719 SG1 2140.5 SG2 427.9 THA 55.25 EL1 1063.4 EL2 28.8 ALF 54.22

LAUNCH DATE DEC 3 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 448.292

RL 147.45 LAL -.00 LOL 70.90 VL 27.817 GAL 4.65 AZL 87.95 MCA 193.78 SMA 129.31 ECC .16167 INC 2.0533 V1 30.216
 RP 108.72 LAP -.49 LOP 264.67 VP 37.619 GAP -1.62 AZP 91.99 TAL 154.54 TAP 348.32 RCA 108.40 APO 150.21 V2 34.858
 RC 71.560 GL 15.63 GP 16.61 ZAL 46.98 ZAP 66.78 ETS 354.53 ZAE 165.47 ETE 85.21 ZAC 107.54 ETC 160.58 CLP -65.70

PLANETOCENTRIC CONIC

C3 13.608 VHL 3.689 DLA 24.53 RAL 17.94 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 3.132 DPA 19.91 RAP 11.54 ECC 1.2240
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 54 16 3023.30 -27.85 98.12 241.37 84.67 4 44 40 2423.3 -28.30 89.49
 90.00 23 34 0 3873.44 -10.30 153.56 236.09 63.48 24 38 33 3273.4 -13.78 146.61
 100.00 5 36 52 2692.49 -29.75 73.94 241.53 86.95 6 21 45 2092.5 -29.86 65.14
 100.00 0 38 0 3679.48 -8.62 138.41 235.20 61.27 1 39 20 3079.5 -12.39 131.65
 110.00 7 26 19 2350.07 -34.11 47.97 241.56 92.34 8 5 29 1750.1 -33.41 38.80
 110.00 1 5 3 3594.67 -4.89 129.71 232.92 56.13 2 4 57 2994.7 -9.30 123.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2126 TRA -.4879 TC3 -.2470 BAU .1413 SGT 914.4 SGR 1502.0 SG3 1719.7 ST 414.2 SR 743.2 SS 2954.8
 RDE -.4136 RRA -.7288 RC3 .7363 FAU .14941 RRT .8371 RRF -.9972 RTF -.8323 CRT .9920 CRS .9971 CST .9800
 FDE 6.3291 FRA 9.2677 FC3-9.5056 BSP .5952 SGB 1758.5 R23 -.1471 R13 -.9863 LSA 3073.3 MSA 96.7 SSA 9.1
 BOE .4651 BRA .8771 BC3 .7766 FSP -5315 SG1 1702.1 SG2 441.5 THA 60.85 EL1 849.6 EL2 45.7 ALF 60.97

LAUNCH DATE DEC 3 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 454.689

RL 147.45 LAL -.00 LOL 70.90 VL 27.829 GAL 4.64 AZL 87.69 MCA 196.95 SMA 129.39 ECC .16087 INC 2.3127 V1 30.216
 RP 108.74 LAP -.67 LOP 267.84 VP 37.619 GAP -1.19 AZP 92.21 TAL 154.48 TAP 351.43 RCA 108.58 APO 150.21 V2 34.848
 RC 73.792 GL 17.54 GP 14.10 ZAL 47.50 ZAP 71.74 ETS 356.99 ZAE 167.64 ETE 100.37 ZAC 106.37 ETC 162.00 CLP -71.15

PLANETOCENTRIC CONIC

C3 13.798 VHL 3.715 DLA 26.29 RAL 17.11 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 3.003 DPA 16.70 RAP 10.59 ECC 1.2271
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 16 44 3143.10 -26.80 106.73 241.06 80.48 4 9 7 2543.1 -27.84 98.21
 90.00 0 8 52 3759.71 -13.67 146.91 236.72 64.96 1 11 32 3159.7 -16.94 139.75
 100.00 5 6 51 2788.06 -29.20 80.99 241.45 83.28 5 53 19 2188.1 -29.82 72.24
 100.00 1 1 25 3589.98 -11.50 133.33 235.62 62.22 2 1 15 2990.0 -15.13 126.42
 110.00 7 5 16 2417.56 -34.18 53.24 241.83 89.22 7 45 34 1817.6 -33.91 44.00
 110.00 1 19 30 3533.24 -7.21 126.46 233.04 56.49 2 18 23 2933.2 -11.56 120.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0653 TRA -.2791 TC3 -.4337 BAU .1434 SGT 587.0 SGR 1307.2 SG3 1859.6 ST 176.1 SR 642.2 SS 3155.1
 RDE -.3591 RRA -.6293 RC3 .6455 FAU .16116 RRT .5489 RRF -.9948 RTF -.5378 CRT .9061 CRS .9949 CST .8597
 FDE 7.1682 FRA 9.8058 FC-10.1118 BSP 4741 SGB 1432.9 R23 -.1084 R13 -.9889 LSA 3222.7 MSA 109.1 SSA 9.3
 BOE .3650 BRA .6884 BC3 .7776 FSP -5817 SG1 1352.1 SG2 474.3 THA 74.15 EL1 662.0 EL2 72.3 ALF 75.88

LAUNCH DATE DEC 3 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 461.065

RL 147.45 LAL -.00 LOL 70.90 VL 27.839 GAL 4.63 AZL 87.51 MCA 200.12 SMA 129.46 ECC .16033 INC 2.4918 V1 30.216
 RP 108.77 LAP -.86 LOP 271.00 VP 37.618 GAP -.76 AZP 92.34 TAL 154.38 TAP 354.51 RCA 108.70 APO 150.22 V2 34.839
 RC 76.053 GL 18.83 GP 12.29 ZAL 47.83 ZAP 77.09 ETS 358.74 ZAE 167.95 ETE 119.53 ZAC 104.70 ETC 163.11 CLP -76.78

PLANETOCENTRIC CONIC

C3 13.967 VHL 3.737 DLA 27.50 RAL 16.59 RAD 6567.5 VEL 11.634 PTH 2.04 VHP 2.913 DPA 14.05 RAP 9.14 ECC 1.2299
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 40 28 3259.40 -25.22 114.88 240.61 76.69 3 34 47 2659.4 -26.81 106.57
 90.00 0 40 58 3648.73 -16.76 140.22 237.62 66.84 1 41 47 3048.7 -19.76 132.83
 100.00 4 42 13 2866.88 -28.43 86.72 241.34 80.36 5 30 0 2266.9 -29.47 78.07
 100.00 1 21 53 3516.49 -13.80 129.09 236.19 63.22 2 20 30 2916.5 -17.28 122.03
 110.00 6 49 44 2467.84 -34.06 57.16 242.07 86.91 7 30 52 1867.8 -34.11 47.91
 110.00 1 30 52 3488.29 -8.89 124.07 233.31 56.86 2 29 0 2888.3 -13.19 117.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .1055 TRA -.0599 TC3 -.6396 BAU .1609 SGT 515.2 SGR 1154.7 SG3 1963.8 ST 165.3 SR 554.2 SS 3297.1
 RDE -.3086 RRA -.5560 RC3 .5774 FAU .16967 RRT -.3083 RRF -.9911 RTF .3306 CRT -.7396 CRS .9914 CST -.8205
 FDE 7.8163 FRA10.2055 FC-10.5174 BSP 3765 SGB 1264.5 R23 .0423 R13 -.9906 LSA 3345.3 MSA 118.5 SSA 9.6
 BOE .3261 BRA .5592 BC3 .8617 FSP -6206 SG1 1167.9 SG2 484.6 THA 99.48 EL1 568.0 EL2 108.6 ALF 102.92

LAUNCH DATE DEC 3 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 467.420

RL 147.45 LAL -.00 LOL 70.90 VL 27.846 GAL 4.64 AZL 87.38 MCA 203.29 SMA 129.51 ECC .16004 INC 2.6241 V1 30.216
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.616 GAP -.34 AZP 92.41 TAL 154.26 TAP 357.55 RCA 108.78 APO 150.24 V2 34.831
 RC 78.340 GL 19.75 GP 10.89 ZAL 48.02 ZAP 82.66 ETS .04 ZAE 166.53 ETE 136.99 ZAC 102.73 ETC 164.00 CLP -82.53

PLANETOCENTRIC CONIC

C3 14.135 VHL 3.760 DLA 28.38 RAL 16.28 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 2.855 DPA 11.71 RAP 7.40 ECC 1.2326
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.00 1 22 47 3510.76 -21.53 132.09 239.39 71.05 2 21 18 2910.8 -23.92 124.22
 92.00 1 56 9 3402.65 -21.52 124.17 239.39 71.04 2 52 51 2802.6 -23.91 116.31
 100.00 4 20 29 2937.44 -27.52 91.77 241.23 77.85 5 9 26 2337.4 -28.92 83.25
 100.00 1 41 8 3451.20 -15.76 125.24 236.90 64.27 2 38 40 2851.2 -19.10 118.03
 110.00 6 37 50 2507.47 -33.87 60.24 242.33 85.09 7 19 38 1907.5 -34.18 51.01
 110.00 1 40 16 3453.93 -10.16 122.22 233.68 57.19 2 37 50 2853.9 -14.42 115.70

DIFFERENTIAL CORRECTIONS

TDE .2933 TRA .1671 TC3 -.8588 BAU .1901
 RDE -.2601 RRA -.4968 RC3 .5238 FAU .17559
 FDE 8.2589 FRA10.4440 FC-10.7546 BSP 3361
 BDE .3920 BRA .5241 BC3 1.0059 FSP -6504

MID-COURSE EXECUTION ACCURACY

SGT 837.0 SGR 1026.0 SG3 2020.3
 RRT -.7925 RRF -.9857 RTF .8186
 SGB 1324.1 R23 .1856 R13 -.9700
 SG1 1256.8 SG2 416.7 THA 127.75

ORBIT DETERMINATION ACCURACY

ST 455.8 SR 473.1 SS 3382.1
 CRT -.9266 CRS .9853 CST -.9766
 LSA 3443.0 MSA 126.2 SSA 9.9
 EL1 644.8 EL2 125.8 ALF 133.84

LAUNCH DATE DEC 3 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 473.752

RL 147.45 LAL -.00 LOL 70.90 VL 27.851 GAL 4.67 AZL 87.27 MCA 206.46 SMA 129.55 ECC .15998 INC 2.7259 V1 30.216
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.612 GAP .08 AZP 92.44 TAL 154.09 TAP .55 RCA 108.82 APO 150.27 V2 34.824
 RC 80.651 GL 20.42 GP 9.75 ZAL 48.10 ZAP 88.34 ETS 1.03 ZAE 163.91 ETE 149.61 ZAC 100.60 ETC 164.71 CLP -88.32

PLANETOCENTRIC CONIC

C3 14.316 VHL 3.784 DLA 29.05 RAL 16.12 RAD 6567.6 VEL 11.649 PTH 2.05 VHP 2.828 DPA 9.59 RAP 5.51 ECC 1.2356
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.22 0 42 49 3640.72 -21.96 141.79 239.62 70.48 1 43 30 3040.7 -24.42 133.92
 96.78 2 34 53 3278.31 -21.94 115.20 239.61 70.47 3 29 31 2678.3 -24.41 107.34
 100.00 3 59 41 3006.16 -26.45 96.99 241.12 75.53 4 49 47 2406.2 -28.17 88.22
 100.00 2 0 42 3388.11 -17.59 121.44 237.74 65.43 2 57 10 2788.1 -20.76 114.08
 110.00 6 28 33 2539.95 -33.65 62.75 242.65 83.62 7 10 53 1939.9 -34.17 53.54
 110.00 1 48 19 3427.08 -11.15 120.77 234.13 57.48 2 45 26 2827.1 -15.36 114.20

DIFFERENTIAL CORRECTIONS

TDE .4925 TRA .3991 TC3 -1.0850 BAU .2268
 RDE -.2140 RRA -.4474 RC3 .4758 FAU .17750
 FDE 8.5208 FRA10.5356 FC-10.7339 BSP 3790
 BDE .5369 BRA .5995 BC3 1.1847 FSP -6648

MID-COURSE EXECUTION ACCURACY

SGT 1306.9 SGR 913.9 SG3 2054.7
 RRT -.8983 RRF -.9777 RTF .9301
 SGB 1594.8 R23 .1866 R13 -.9670
 SG1 1558.9 SG2 336.6 THA 146.07

ORBIT DETERMINATION ACCURACY

ST 774.4 SR 399.0 SS 3425.1
 CRT -.9390 CRS .9756 CST -.9915
 LSA 3531.7 MSA 132.7 SSA 10.2
 EL1 862.4 EL2 123.2 ALF 153.60

LAUNCH DATE DEC 3 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 480.062

RL 147.45 LAL -.00 LOL 70.90 VL 27.854 GAL 4.71 AZL 87.19 MCA 209.63 SMA 129.57 ECC .16016 INC 2.8075 V1 30.216
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.608 GAP .49 AZP 92.44 TAL 153.89 TAP 3.52 RCA 108.81 APO 150.32 V2 34.816
 RC 82.981 GL 20.91 GP 8.78 ZAL 48.08 ZAP 94.02 ETS 1.79 ZAE 160.65 ETE 157.97 ZAC 98.43 ETC 165.25 CLP -94.06

PLANETOCENTRIC CONIC

C3 14.519 VHL 3.810 DLA 29.57 RAL 16.10 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 2.828 DPA 7.64 RAP 3.58 ECC 1.2390
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.10 0 25 56 3697.76 -22.26 146.12 239.95 70.01 1 27 34 3097.8 -24.78 138.25
 98.90 2 51.34 3227.52 -22.25 111.57 239.95 70.00 3 45 21 2627.5 -24.77 103.71
 100.00 3 36 49 3082.75 -25.04 101.85 240.97 73.11 4 28 12 2482.8 -27.11 93.66
 100.00 2 23 22 3317.76 -19.53 117.11 238.80 66.91 3 18 39 2717.8 -22.48 109.57
 110.00 6 21 18 2567.28 -33.43 64.85 243.05 82.40 7 4 5 1967.3 -34.12 55.68
 110.00 1 55 22 3406.00 -11.92 119.62 234.66 57.72 2 52 8 2806.0 -16.10 113.00

DIFFERENTIAL CORRECTIONS

TDE .6958 TRA .6310 TC3 -1.3098 BAU .2679
 RDE -.1689 RRA -.4036 RC3 .4352 FAU .17705
 FDE 8.5716 FRA10.4463 FC-10.5571 BSP 4888
 BDE .7160 BRA .7491 BC3 1.3802 FSP -6710

MID-COURSE EXECUTION ACCURACY

SGT 1811.4 SGR 813.3 SG3 2039.2
 RRT -.9218 RRF -.9661 RTF .9641
 SGB 1985.6 R23 .1386 R13 -.9748
 SG1 1964.2 SG2 290.7 THA 156.98

ORBIT DETERMINATION ACCURACY

ST 1096.7 SR 329.2 SS 3416.6
 CRT -.9264 CRS .9578 CST -.9955
 LSA 3600.7 MSA 138.5 SSA 10.4
 EL1 1138.8 EL2 119.4 ALF 164.28

LAUNCH DATE DEC 3 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 486.351

RL 147.45 LAL -.00 LOL 70.90 VL 27.855 GAL 4.76 AZL 87.13 MCA 212.80 SMA 129.57 ECC .16057 INC 2.8745 V1 30.216
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.603 GAP .89 AZP 92.42 TAL 153.65 TAP 6.45 RCA 108.77 APO 150.38 V2 34.810
 RC 85.328 GL 21.25 GP 7.94 ZAL 47.98 ZAP 99.59 ETS 2.38 ZAE 157.14 ETE 163.47 ZAC 96.32 ETC 165.66 CLP -99.68

PLANETOCENTRIC CONIC

C3 14.752 VHL 3.841 DLA 29.98 RAL 16.18 RAD 6567.6 VEL 11.668 PTH 2.05 VHP 2.854 DPA 5.86 RAP 1.71 ECC 1.2428
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.71 0 15 37 3735.35 -22.47 148.99 240.40 69.61 1 17 52 3135.3 -25.04 141.13
 100.29 3 2 33 3196.99 -22.46 109.39 240.40 69.60 3 55 50 2597.0 -25.03 101.53
 79.71 0 15 37 3735.35 -22.47 148.99 240.40 69.61 1 17 52 3135.3 -25.04 141.13
 100.29 3 2 33 3196.99 -22.46 109.39 240.40 69.60 3 55 50 2597.0 -25.03 101.53
 110.00 6 15 42 2590.72 -33.20 66.64 243.54 81.36 6 58 53 1990.7 -34.04 57.50
 110.00 2 1 39 3389.61 -12.51 118.72 235.27 57.93 2 58 8 2789.6 -16.66 112.07

DIFFERENTIAL CORRECTIONS

TDE .8985 TRA .8603 TC3 -1.5258 BAU .3110
 RDE -.1260 RRA -.3653 RC3 .3978 FAU .17324
 FDE 8.4572 FRA10.2186 FC-10.1669 BSP 6288
 BDE .9073 BRA .9346 BC3 1.5768 FSP -6642

MID-COURSE EXECUTION ACCURACY

SGT 2318.4 SGR 724.2 SG3 1988.9
 RRT -.9193 RRF -.9495 RTF .9778
 SGB 2426.9 R23 .0962 R13 -.9816
 SG1 2411.4 SG2 273.7 THA 163.75

ORBIT DETERMINATION ACCURACY

ST 1412.6 SR 266.5 SS 3372.6
 CRT -.8929 CRS .9244 CST -.9971
 LSA 3663.3 MSA 143.8 SSA 10.6
 EL1 1432.6 EL2 118.3 ALF 170.37

LAUNCH DATE DEC 3 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 492.618

RL 147.45 LAL -.00 LOL 70.90 VL 27.854 GAL 4.82 AZL 87.07 MCA 215.96 SMA 129.57 ECC .16120 INC 2.9309 V1 30.216
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.597 GAP 1.29 AZP 92.37 TAL 153.38 TAP 9.34 RCA 108.68 APO 150.45 V2 34.804
 RC 87.691 GL 21.48 GP 7.19 ZAL 47.81 ZAP 104.98 ETS 2.84 ZAE 153.58 ETE 167.19 ZAC 94.35 ETC 165.95 CLP-105.10

PLANETOCENTRIC CONIC

C3 15.018 VML 3.875 DLA 30.31 RAL 16.36 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 2.903 DPA 4.26 RAP 359.98 ECC 1.2472
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.72 0 8 55 3762.97 -22.61 151.11 240.95 69.26 1 11 38 3163.0 -25.23 143.25
 101.28 3 10 42 3177.35 -22.60 107.98 240.95 69.25 4 3 39 2577.4 -25.21 100.13
 78.72 0 8 55 3762.97 -22.61 151.11 240.95 69.26 1 11 38 3163.0 -25.23 143.25
 101.28 3 10 42 3177.35 -22.60 107.98 240.95 69.25 4 3 39 2577.4 -25.21 100.13
 110.00 6 11 30 2611.10 -32.98 68.19 244.12 80.47 6 55 1 2011.1 -33.95 59.09
 110.00 2 7 17 3377.22 -12.96 118.04 235.95 58.09 3 3 35 2777.2 -17.08 111.36

DIFFERENTIAL CORRECTIONS

TDE 1.0955 TRA 1.0837 TC3-1.7267 BAU .3543
 RDE -.0855 RRA -.3317 RC3 .3640 FAU .16679
 FDE 8.2026 FRA 9.8775 FC3-9.6153 BSP 7786
 BOE 1.0988 BRA 1.1333 BC3 1.7647 FSP -6468

MID-COURSE EXECUTION ACCURACY

SGT 2803.3 SGR 646.7 SG3 1910.1
 RRT -.9027 RRF -.9263 RTF .9844
 SGB 2876.9 R23 .0680 R13 -.9860
 SG1 2864.0 SG2 272.4 THA 168.13

ORBIT DETERMINATION ACCURACY

ST 1713.1 SR 212.3 SS 3298.4
 CRT -.8245 CRS .8595 CST -.9979
 LSA 3719.8 MSA 148.7 SSA 10.8
 EL1 1722.1 EL2 119.5 ALF 174.14

LAUNCH DATE DEC 3 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 498.863

RL 147.45 LAL -.00 LOL 70.90 VL 27.852 GAL 4.90 AZL 87.02 MCA 219.12 SMA 129.55 ECC .16206 INC 2.9793 V1 30.216
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.590 GAP 1.69 AZP 92.31 TAL 153.06 TAP 12.19 RCA 108.55 APO 150.54 V2 34.799
 RC 90.065 GL 21.62 GP 6.52 ZAL 47.56 ZAP 110.13 ETS 3.19 ZAE 150.12 ETE 169.77 ZAC 92.60 ETC 166.14 CLP-110.27

PLANETOCENTRIC CONIC

C3 15.322 VML 3.914 DLA 30.56 RAL 16.63 RAD 6567.6 VEL 11.692 PTH 2.06 VHP 2.975 DPA 2.83 RAP 358.44 ECC 1.2522
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.99 0 4 36 3784.61 -22.68 152.76 241.61 68.94 1 7 40 3184.6 -25.34 144.91
 102.01 3 17 10 3164.72 -22.67 107.06 241.60 68.93 4 9 55 2564.7 -25.33 99.22
 77.99 0 4 36 3784.61 -22.68 152.76 241.61 68.94 1 7 40 3184.6 -25.34 144.91
 102.01 3 17 10 3164.72 -22.67 107.06 241.60 68.93 4 9 55 2564.7 -25.33 99.22
 110.00 6 8 32 2628.96 -32.77 69.55 244.80 79.69 6 52 21 2029.0 -33.85 60.47
 110.00 2 12 24 3368.37 -13.28 117.55 236.70 58.21 3 8 33 2768.4 -17.39 110.85

DIFFERENTIAL CORRECTIONS

TDE 1.2833 TRA 1.2992 TC3-1.9074 BAU .3966
 RDE -.0476 RRA -.3023 RC3 .3337 FAU .15828
 FDE 7.8445 FRA 9.4523 FC3-8.9432 BSP 9283
 BOE 1.2842 BRA 1.3339 BC3 1.9363 FSP -6213

MID-COURSE EXECUTION ACCURACY

SGT 3261.3 SGR 580.7 SG3 1810.4
 RRT -.8744 RRF -.8947 RTF .9879
 SGB 3312.6 R23 .0506 R13 -.9887
 SG1 3300.9 SG2 278.4 THA 171.09

ORBIT DETERMINATION ACCURACY

ST 1992.4 SR 169.4 SS 3201.8
 CRT -.6917 CRS .7324 CST -.9983
 LSA 3771.7 MSA 153.2 SSA 10.9
 EL1 1995.8 EL2 122.1 ALF 176.62

LAUNCH DATE DEC 3 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 505.085

RL 147.45 LAL -.00 LOL 70.90 VL 27.847 GAL 5.00 AZL 86.98 MCA 222.29 SMA 129.52 ECC .16313 INC 3.0216 V1 30.216
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.583 GAP 2.09 AZP 92.24 TAL 152.71 TAP 15.00 RCA 108.39 APO 150.65 V2 34.795
 RC 92.449 GL 21.68 GP 5.93 ZAL 47.25 ZAP 115.00 ETS 3.46 ZAE 146.84 ETE 171.60 ZAC 91.10 ETC 166.26 CLP-115.15

PLANETOCENTRIC CONIC

C3 15.669 VML 3.958 DLA 30.76 RAL 16.98 RAD 6567.6 VEL 11.707 PTH 2.06 VHP 3.067 DPA 1.59 RAP 357.13 ECC 1.2579
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.45 0 2 3 3802.14 -22.70 154.08 242.36 68.66 1 5 25 3202.1 -25.39 146.25
 102.55 3 22 31 3157.29 -22.68 106.51 242.36 68.64 4 15 8 2557.3 -25.38 98.68
 77.45 0 2 3 3802.14 -22.70 154.08 242.36 68.66 1 5 25 3202.1 -25.39 146.25
 102.55 3 22 31 3157.29 -22.68 106.51 242.36 68.64 4 15 8 2557.3 -25.38 98.68
 110.00 6 6 41 2644.70 -32.58 70.73 245.59 79.02 6 50 46 2044.7 -33.75 61.69
 110.00 2 17 3 3362.72 -13.48 117.24 237.53 58.29 3 13 6 2762.7 -17.58 110.52

DIFFERENTIAL CORRECTIONS

TDE 1.4616 TRA 1.5080 TC3-2.0611 BAU .4365
 RDE -.0127 RRA -.2773 RC3 .3061 FAU .14786
 FDE 7.4273 FRA 8.9858 FC3-8.1695 BSP 10692
 BOE 1.4616 BRA 1.5333 BC3 2.0837 FSP -5875

MID-COURSE EXECUTION ACCURACY

SGT 3686.5 SGR 526.5 SG3 1698.6
 RRT -.8350 RRF -.8534 RTF .9899
 SGB 3723.9 R23 .0397 R13 -.9903
 SG1 3712.8 SG2 287.7 THA 173.16

ORBIT DETERMINATION ACCURACY

ST 2249.1 SR 141.5 SS 3093.3
 CRT -.4585 CRS .5054 CST -.9985
 LSA 3823.9 MSA 157.5 SSA 11.1
 EL1 2250.0 EL2 125.7 ALF 178.34

LAUNCH DATE DEC 3 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 511.285

RL 147.45 LAL -.00 LOL 70.90 VL 27.842 GAL 5.11 AZL 86.94 MCA 225.45 SMA 129.48 ECC .16443 INC 3.0589 V1 30.216
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.575 GAP 2.48 AZP 92.15 TAL 152.32 TAP 17.77 RCA 108.19 APO 150.77 V2 34.791
 RC 94.840 GL 21.67 GP 5.40 ZAL 46.88 ZAP 119.57 ETS 3.68 ZAE 143.78 ETE 172.93 ZAC 89.88 ETC 166.33 CLP-119.72

PLANETOCENTRIC CONIC

C3 16.063 VML 4.008 DLA 30.91 RAL 17.41 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 3.178 DPA .54 RAP 356.06 ECC 1.2644
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.05 0 0 52 3816.89 -22.66 155.17 243.22 68.39 1 4 29 3216.9 -25.39 147.35
 102.95 3 27 6 3153.79 -22.65 106.24 243.22 68.38 4 19 39 2553.8 -25.38 98.42
 77.05 0 0 52 3816.89 -22.66 155.17 243.22 68.39 1 4 29 3216.9 -25.39 147.35
 102.95 3 27 6 3153.79 -22.65 106.24 243.22 68.38 4 19 39 2553.8 -25.38 98.42
 110.00 6 5 52 2658.62 -32.39 71.77 246.48 78.42 6 50 10 2058.6 -33.65 62.77
 110.00 2 21 16 3360.06 -13.58 117.09 238.43 58.32 3 17 16 2760.1 -17.67 110.37

DIFFERENTIAL CORRECTIONS

TDE 1.6266 TRA 1.7080 TC3-2.1910 BAU .4744
 RDE .0199 RRA -.2556 RC3 .2823 FAU .13710
 FDE 6.9632 FRA 8.4880 FC3-7.3890 BSP 12030
 BOE 1.6268 BRA 1.7270 BC3 2.2091 FSP -5521

MID-COURSE EXECUTION ACCURACY

SGT 4073.3 SGR 483.1 SG3 1579.5
 RRT -.7843 RRF -.8017 RTF .9911
 SGB 4101.8 R23 .0326 R13 -.9913
 SG1 4091.0 SG2 298.4 THA 174.66

ORBIT DETERMINATION ACCURACY

ST 2477.8 SR 131.1 SS 2971.5
 CRT -.1332 CRS .1833 CST -.9987
 LSA 3867.8 MSA 161.6 SSA 11.3
 EL1 2477.8 EL2 129.9 ALF 179.60

LAUNCH DATE DEC 3 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 517.462

RL 147.45 LAL -.00 LOL 70.90 VL 27.835 GAL 5.23 AZL 86.91 MCA 228.61 SMA 129.43 ECC .16596 INC 3.0924 V1 30.216
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.567 GAP 2.88 AZP 92.05 TAL 151.89 TAP 20.50 RCA 107.95 APO 150.91 V2 34.788
 RC 97.236 GL 21.60 GP 4.93 ZAL 46.45 ZAP 123.83 ETS 3.85 ZAE 140.97 ETE 173.91 ZAC 88.94 ETC 166.35 CLP-123.97

PLANETOCENTRIC CONIC

C3 16.507 VHL 4.063 DLA 31.02 RAL 17.90 RAD 6567.7 VEL 11.743 PTH 2.07 VHP 3.305 DPA -.33 RAP 355.26 ECC 1.2717
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.76 0 0 49 3829.48 -22.58 156.08 244.17 68.14 1 4 39 3229.5 -25.35 148.28
 103.24 3 31 5 3153.66 -22.57 106.19 244.17 68.13 4 23 38 2553.7 -25.34 98.39
 76.76 0 0 49 3829.48 -22.58 156.08 244.17 68.14 1 4 39 3229.5 -25.35 148.28
 103.24 3 31 5 3153.66 -22.57 106.19 244.17 68.13 4 23 38 2553.7 -25.34 98.39
 110.00 6 5 58 2670.96 -32.22 72.70 247.48 77.90 6 50 29 2071.0 -33.55 63.72
 110.00 2 25 7 3360.18 -13.57 117.10 239.40 58.32 3 21 7 2760.2 -17.66 110.38

DIFFERENTIAL CORRECTIONS

TDE 1.7799 TRA 1.9010 TC3-2.2946 BAU .5097
 RDE .0501 RRA -.2371 RC3 .2613 FAU .12607
 FDE 6.4880 FRA 7.9889 FC3-6.6115 BSP 13271
 BDE 1.7806 BRA 1.9157 BC3 2.3094 FSP -5153

MID-COURSE EXECUTION ACCURACY

SGT 4423.0 SGR 449.7 SG3 1459.6
 RRT -.7234 RRF -.7401 RTF .9918
 SGB 4445.8 R23 .0277 R13 -.9919
 SG1 4435.0 SG2 309.6 THA 175.77

ORBIT DETERMINATION ACCURACY

ST 2680.3 SR 136.8 SS 2845.2
 CRT .1829 CRS -.1346 CST -.9988
 LSA 3907.8 MSA 165.6 SSA 11.4
 EL1 2680.4 EL2 134.5 ALF .54

LAUNCH DATE DEC 3 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 523.616

RL 147.45 LAL -.00 LOL 70.90 VL 27.826 GAL 5.37 AZL 86.88 MCA 231.77 SMA 129.37 ECC .16771 INC 3.1228 V1 30.216
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.559 GAP 3.28 AZP 91.93 TAL 151.43 TAP 23.20 RCA 107.67 APO 151.07 V2 34.786
 RC 99.636 GL 21.47 GP 4.51 ZAL 45.97 ZAP 127.78 ETS 4.00 ZAE 138.41 ETE 174.65 ZAC 88.28 ETC 166.36 CLP-127.92

PLANETOCENTRIC CONIC

C3 17.007 VHL 4.124 DLA 31.10 RAL 18.46 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 3.447 DPA -1.03 RAP 354.71 ECC 1.2799
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.58 0 1 44 3840.45 -22.46 156.85 245.22 67.91 1 5 45 3240.5 -25.25 149.07
 103.42 3 34 37 3156.39 -22.44 106.34 245.22 67.89 4 27 13 2556.4 -25.24 98.56
 76.58 0 1 44 3840.45 -22.46 156.85 245.22 67.91 1 5 45 3240.5 -25.25 149.07
 103.42 3 34 37 3156.39 -22.44 106.34 245.22 67.89 4 27 13 2556.4 -25.24 98.56
 110.00 6 6 56 2681.90 -32.06 73.51 248.59 77.45 6 51 38 2081.9 -33.45 64.56
 110.00 2 28 35 3362.94 -13.47 117.25 240.44 58.28 3 24 38 2762.9 -17.57 110.54

DIFFERENTIAL CORRECTIONS

TDE 1.9215 TRA 2.0888 TC3-2.3722 BAU .5422
 RDE .0782 RRA -.2213 RC3 .2426 FAU .11511
 FDE 6.0193 FRA 7.5060 FC3-5.8594 BSP 14402
 BDE 1.9231 BRA 2.1005 BC3 2.3846 FSP -4778

MID-COURSE EXECUTION ACCURACY

SGT 4737.2 SGR 425.1 SG3 1343.0
 RRT -.6546 RRF -.6706 RTF .9921
 SGB 4756.2 R23 .0240 R13 -.9922
 SG1 4745.4 SG2 320.8 THA 176.62

ORBIT DETERMINATION ACCURACY

ST 2857.3 SR 153.1 SS 2718.1
 CRT .4116 CRS -.3677 CST -.9988
 LSA 3943.0 MSA 169.5 SSA 11.6
 EL1 2858.0 EL2 139.5 ALF 1.27

LAUNCH DATE DEC 3 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 529.746

RL 147.45 LAL -.00 LOL 70.90 VL 27.817 GAL 5.53 AZL 86.85 MCA 234.94 SMA 129.30 ECC .16970 INC 3.1507 V1 30.216
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.550 GAP 3.67 AZP 91.81 TAL 150.93 TAP 25.86 RCA 107.36 APO 151.25 V2 34.784
 RC 102.038 GL 21.29 GP 4.14 ZAL 45.44 ZAP 131.45 ETS 4.13 ZAE 136.09 ETE 175.22 ZAC 87.89 ETC 166.35 CLP-131.58

PLANETOCENTRIC CONIC

C3 17.568 VHL 4.191 DLA 31.14 RAL 19.08 RAD 6567.7 VEL 11.788 PTH 2.08 VHP 3.603 DPA -1.57 RAP 354.41 ECC 1.2891
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.48 0 3 31 3850.15 -22.29 157.51 246.36 67.68 1 7 41 3250.1 -25.12 149.75
 103.52 3 37 46 3161.69 -22.28 106.67 246.36 67.67 4 30 28 2561.7 -25.11 98.91
 76.48 0 3 31 3850.15 -22.29 157.51 246.36 67.68 1 7 41 3250.1 -25.12 149.75
 103.52 3 37 46 3161.69 -22.28 106.67 246.36 67.67 4 30 28 2561.7 -25.11 98.91
 110.00 6 8 43 2691.62 -31.91 74.23 249.79 77.04 6 53 35 2091.6 -33.36 65.30
 110.00 2 31 44 3368.22 -13.28 117.54 241.54 58.21 3 27 52 2768.2 -17.39 110.84

DIFFERENTIAL CORRECTIONS

TDE 2.0525 TRA 2.2728 TC3-2.4256 BAU .5722
 RDE .1045 RRA -.2078 RC3 .2258 FAU .10458
 FDE 5.5694 FRA 7.0482 FC3-5.1536 BSP 15440
 BDE 2.0552 BRA 2.2822 BC3 2.4361 FSP -4417

MID-COURSE EXECUTION ACCURACY

SGT 5018.1 SGR 407.8 SG3 1232.0
 RRT -.5807 RRF -.5959 RTF .9923
 SGB 5034.6 R23 .0210 R13 -.9923
 SG1 5023.7 SG2 331.7 THA 177.29

ORBIT DETERMINATION ACCURACY

ST 3010.3 SR 174.2 SS 2592.8
 CRT .5569 CRS -.5173 CST -.9989
 LSA 3973.0 MSA 173.3 SSA 11.8
 EL1 3011.9 EL2 144.6 ALF 1.85

LAUNCH DATE DEC 3 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 535.852

RL 147.45 LAL -.00 LOL 70.90 VL 27.806 GAL 5.70 AZL 86.82 MCA 238.10 SMA 129.23 ECC .17193 INC 3.1765 V1 30.216
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.541 GAP 4.08 AZP 91.68 TAL 150.39 TAP 28.49 RCA 107.01 APO 151.45 V2 34.783
 RC 104.441 GL 21.06 GP 3.81 ZAL 44.86 ZAP 134.84 ETS 4.25 ZAE 134.01 ETE 175.65 ZAC 87.75 ETC 166.34 CLP-134.97

PLANETOCENTRIC CONIC

C3 18.195 VHL 4.266 DLA 31.14 RAL 19.75 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 3.771 DPA -1.96 RAP 354.34 ECC 1.2994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.46 0 6 2 3858.80 -22.08 158.07 247.59 67.46 1 10 21 3258.8 -24.94 150.34
 103.54 3 40 37 3169.38 -22.07 107.16 247.59 67.45 4 33 26 2569.4 -24.93 99.42
 76.46 0 6 2 3858.80 -22.08 158.07 247.59 67.46 1 10 21 3258.8 -24.94 150.34
 103.54 3 40 37 3169.38 -22.07 107.16 247.59 67.45 4 33 26 2569.4 -24.93 99.42
 110.00 6 11 15 2700.28 -31.78 74.87 251.11 76.69 6 56 16 2100.3 -33.28 65.96
 110.00 2 34 34 3375.89 -13.01 117.97 242.71 58.11 3 30 50 2775.9 -17.13 111.28

DIFFERENTIAL CORRECTIONS

TDE 2.1769 TRA 2.4576 TC3-2.4499 BAU .5981
 RDE .1293 RRA -.1962 RC3 .2102 FAU .09416
 FDE 5.1536 FRA 6.6290 FC3-4.4802 BSP 16316
 BDE 2.1807 BRA 2.4654 BC3 2.4589 FSP -4052

MID-COURSE EXECUTION ACCURACY

SGT 5272.1 SGR 396.4 SG3 1129.0
 RRT -.5047 RRF -.5187 RTF .9922
 SGB 5287.0 R23 .0183 R13 -.9923
 SG1 5275.9 SG2 342.0 THA 177.82

ORBIT DETERMINATION ACCURACY

ST 3145.3 SR 196.8 SS 2474.5
 CRT .6472 CRS -.6111 CST -.9989
 LSA 4002.9 MSA 177.1 SSA 12.0
 EL1 3147.9 EL2 149.9 ALF 2.32

LAUNCH DATE DEC 3 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

RL 147.45 LAL -.00 LOL 70.90 VL 27.794 GAL 5.89 AZL 86.80 MCA 241.26 SMA 129.15 ECC .17440 INC 3.2005 V1 30.216
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.533 GAP 4.48 AZP 91.54 TAL 149.83 TAP 31.09 RCA 106.62 APO 151.67 V2 34.783
 RC 106.844 GL 20.80 GP 3.52 ZAL 44.25 ZAP 137.98 ETS 4.37 ZAE 132.15 ETE 176.00 ZAC 87.85 ETC 166.33 CLP-138.10

PLANETOCENTRIC CONIC

C3 18.895 VHL 4.347 DLA 31.12 RAL 20.47 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 3.952 DPA -2.22 RAP 354.48 ECC 1.3110
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.51 0 9 15 3866.61 -21.84 158.55 248.91 67.25 1 13 41 3266.6 -24.73 150.84
 103.49 3 43 9 3179.27 -21.83 107.79 248.90 67.24 4 36 9 2579.3 -24.72 100.09
 76.51 0 9 15 3866.61 -21.84 158.55 248.91 67.25 1 13 41 3266.6 -24.73 150.84
 103.49 3 43 9 3179.27 -21.83 107.79 248.90 67.24 4 36 9 2579.3 -24.72 100.09
 110.00 6 14 28 2708.02 -31.66 75.44 252.52 76.37 6 59 36 2108.0 -33.20 66.55
 110.00 2 37 6 3385.85 -12.65 118.52 243.93 57.98 3 33 32 2785.9 -16.79 111.85

DIFFERENTIAL CORRECTIONS

TDE 2.2905 TRA 2.6401 TC3-2.4582 BAU .6229
 RDE .1531 RRA -.1859 RC3 .1961 FAU .08485
 FDE 4.7606 FRA 6.2368 FC3-3.8878 BSP 17164
 BDE 2.2956 BRA 2.6467 BC3 2.4660 FSP -3729

MID-COURSE EXECUTION ACCURACY

SGT 5496.2 SGR 389.5 SG3 1033.3
 RRT -.4291 RRF -.4419 RTF .9921
 SGB 5510.0 R23 .0160 R13 -.9921
 SG1 5498.8 SG2 351.7 TMA 178.25

ORBIT DETERMINATION ACCURACY

ST 3256.8 SR 219.4 SS 2357.7
 CRT .7058 CRS -.6723 CST -.9989
 LSA 4022.5 MSA 180.9 SSA 12.2
 EL1 3260.5 EL2 155.2 ALF 2.73

LAUNCH DATE DEC 3 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

RL 147.45 LAL -.00 LOL 70.90 VL 27.781 GAL 6.10 AZL 86.78 MCA 244.42 SMA 129.06 ECC .17713 INC 3.2232 V1 30.216
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.524 GAP 4.89 AZP 91.39 TAL 149.23 TAP 33.65 RCA 106.20 APO 151.92 V2 34.784
 RC 109.246 GL 20.50 GP 3.26 ZAL 43.59 ZAP 140.90 ETS 4.49 ZAE 130.48 ETE 176.28 ZAC 88.15 ETC 166.32 CLP-141.01

PLANETOCENTRIC CONIC

C3 19.675 VHL 4.436 DLA 31.08 RAL 21.24 RAD 6567.8 VEL 11.877 PTH 2.11 VHP 4.143 DPA -2.36 RAP 354.81 ECC 1.3238
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.62 0 13 8 3873.56 -21.56 158.94 250.31 67.05 1 17 42 3273.6 -24.48 151.27
 103.38 3 45 23 3191.45 -21.54 108.58 250.30 67.04 4 38 35 2591.4 -24.46 100.90
 76.62 0 13 8 3873.56 -21.56 158.94 250.31 67.05 1 17 42 3273.6 -24.48 151.27
 103.38 3 45 23 3191.45 -21.54 108.58 250.30 67.04 4 38 35 2591.4 -24.46 100.90
 110.00 6 18 20 2714.99 -31.54 75.95 254.02 76.09 7 3 35 2115.0 -33.13 67.09
 110.00 2 39 22 3398.00 -12.21 119.18 245.22 57.82 3 36 0 2798.0 -16.37 112.55

DIFFERENTIAL CORRECTIONS

TDE 2.3972 TRA 2.8242 TC3-2.4469 BAU .6454
 RDE .1761 RRA -.1766 RC3 .1829 FAU .07626
 FDE 4.3994 FRA 5.8782 FC3-3.3555 BSP 17929
 BDE 2.4036 BRA 2.8297 BC3 2.4538 FSP -3429

MID-COURSE EXECUTION ACCURACY

SGT 5696.0 SGR 386.0 SG3 945.5
 RRT -.3558 RRF -.3673 RTF .9918
 SGB 5709.0 R23 .0139 R13 -.9918
 SG1 5697.6 SG2 360.6 TMA 178.61

ORBIT DETERMINATION ACCURACY

ST 3350.4 SR 241.1 SS 2246.5
 CRT .7450 CRS -.7135 CST -.9989
 LSA 4036.8 MSA 184.6 SSA 12.3
 EL1 3355.3 EL2 160.6 ALF 3.08

LAUNCH DATE DEC 3 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

RL 147.45 LAL -.00 LOL 70.90 VL 27.768 GAL 6.33 AZL 86.76 MCA 247.58 SMA 128.96 ECC .18012 INC 3.2447 V1 30.216
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.515 GAP 5.30 AZP 91.24 TAL 148.61 TAP 36.19 RCA 105.73 APO 152.19 V2 34.785
 RC 111.645 GL 20.16 GP 3.03 ZAL 42.90 ZAP 143.61 ETS 4.61 ZAE 128.98 ETE 176.50 ZAC 88.65 ETC 166.32 CLP-143.72

PLANETOCENTRIC CONIC

C3 20.543 VHL 4.532 DLA 31.01 RAL 22.05 RAD 6567.8 VEL 11.913 PTH 2.12 VHP 4.346 DPA -2.38 RAP 355.32 ECC 1.3381
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.80 0 17 37 3879.89 -21.24 159.27 251.79 66.86 1 22 17 3279.9 -24.18 151.63
 103.20 3 47 21 3205.70 -21.22 109.51 251.78 66.85 4 40 47 2605.7 -24.17 101.86
 76.80 0 17 37 3879.89 -21.24 159.27 251.79 66.86 1 22 17 3279.9 -24.18 151.63
 103.20 3 47 21 3205.70 -21.22 109.51 251.78 66.85 4 40 47 2605.7 -24.17 101.86
 110.00 6 22 45 2721.34 -31.44 76.42 255.62 75.83 7 8 7 2121.3 -33.06 67.57
 110.00 2 41 23 3412.24 -11.69 119.96 246.56 57.65 3 38 15 2812.2 -15.88 113.36

DIFFERENTIAL CORRECTIONS

TDE 2.4980 TRA 3.0124 TC3-2.4174 BAU .6656
 RDE .1985 RRA -.1680 RC3 .1702 FAU .06832
 FDE 4.0696 FRA 5.5543 FC3-2.8794 BSP 18612
 BDE 2.5058 BRA 3.0170 BC3 2.4234 FSP -3151

MID-COURSE EXECUTION ACCURACY

SGT 5874.8 SGR 384.9 SG3 865.7
 RRT -.2860 RRF -.2961 RTF .9915
 SGB 5887.4 R23 .0119 R13 -.9915
 SG1 5875.8 SG2 368.8 TMA 178.92

ORBIT DETERMINATION ACCURACY

ST 3428.1 SR 261.7 SS 2141.2
 CRT .7723 CRS -.7423 CST -.9989
 LSA 4046.0 MSA 188.2 SSA 12.5
 EL1 3434.1 EL2 166.0 ALF 3.38

LAUNCH DATE DEC 3 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

RL 147.45 LAL -.00 LOL 70.90 VL 27.753 GAL 6.57 AZL 86.73 MCA 250.74 SMA 128.86 ECC .18340 INC 3.2652 V1 30.216
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.506 GAP 5.73 AZP 91.08 TAL 147.95 TAP 38.70 RCA 105.23 APO 152.50 V2 34.787
 RC 114.042 GL 19.79 GP 2.83 ZAL 42.17 ZAP 146.14 ETS 4.75 ZAE 127.65 ETE 176.69 ZAC 89.32 ETC 166.32 CLP-146.24

PLANETOCENTRIC CONIC

C3 21.510 VHL 4.638 DLA 30.92 RAL 22.89 RAD 6567.9 VEL 11.954 PTH 2.13 VHP 4.560 DPA -2.31 RAP 355.99 ECC 1.3540
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.04 0 22 43 3885.46 -20.88 159.53 253.34 66.67 1 27 28 3285.5 -23.86 151.92
 102.96 3 48 59 3222.21 -20.87 110.58 253.34 66.66 4 42 42 2622.2 -23.84 102.97
 77.04 0 22 43 3885.46 -20.88 159.53 253.34 66.67 1 27 28 3285.5 -23.86 151.92
 102.96 3 48 59 3222.21 -20.87 110.58 253.34 66.66 4 42 42 2622.2 -23.84 102.97
 110.00 6 27 43 2727.19 -31.34 76.84 257.32 75.60 7 13 10 2127.2 -33.00 68.01
 110.00 2 43 10 3428.48 -11.10 120.84 247.96 57.46 3 40 18 2828.5 -15.31 114.28

DIFFERENTIAL CORRECTIONS

TDE 2.5968 TRA 3.2082 TC3-2.3662 BAU .6820
 RDE .2204 RRA -.1599 RC3 .1579 FAU .06074
 FDE 3.7755 FRA 5.2670 FC3-2.4448 BSP 19160
 BDE 2.6062 BRA 3.2122 BC3 2.3715 FSP -2882

MID-COURSE EXECUTION ACCURACY

SGT 6037.5 SGR 385.5 SG3 793.8
 RRT -.2198 RRF -.2282 RTF .9911
 SGB 6049.8 R23 .0098 R13 -.9911
 SG1 6038.1 SG2 376.0 TMA 179.19

ORBIT DETERMINATION ACCURACY

ST 3495.3 SR 280.9 SS 2044.9
 CRT .7918 CRS -.7630 CST -.9989
 LSA 4054.7 MSA 191.8 SSA 12.6
 EL1 3502.4 EL2 171.3 ALF 3.65

LAUNCH DATE DEC 3 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 565.976

RL 147.45 LAL -0.00 LOL 70.90 VL 27.738 GAL 6.84 AZL 86.72 HCA 253.90 SMA 128.76 ECC .18698 INC 3.2850 V1 30.216
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.498 GAP 6.16 AZP 90.91 TAL 147.28 TAP 41.18 RCA 104.68 APO 152.83 V2 34.790
 RC 116.435 GL 19.39 GP 2.64 ZAL 41.42 ZAP 148.50 ETS 4.90 ZAE 126.45 ETE 176.85 ZAC 90.14 ETC 166.33 CLP-148.60

PLANETOCENTRIC CONIC

C3 22.586 VHL 4.753 DLA 30.80 RAL 23.77 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 4.785 DPA -2.15 RAP 356.79 ECC 1.3717
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.35 0 28 23 3890.39 -20.49 159.72 254.97 66.48 1 33 13 3290.4 -23.49 152.14
 102.65 3 50 18 3240.91 -20.47 111.81 254.97 66.47 4 44 19 2640.9 -23.48 104.23
 77.35 0 28 23 3890.39 -20.49 159.72 254.97 66.48 1 33 13 3290.4 -23.49 152.14
 102.65 3 50 18 3240.91 -20.47 111.81 254.97 66.47 4 44 19 2640.9 -23.48 104.23
 110.00 6 33 8 2732.67 -31.25 77.24 259.10 75.38 7 18 40 2132.7 -32.94 68.43
 110.00 2 44 43 3446.63 -10.43 121.83 249.41 57.26 3 42 10 2846.6 -14.67 115.30

DIFFERENTIAL CORRECTIONS

TDE 2.6883 TRA 3.4072 TC3-2.3077 BAU .6982
 ROE .2422 RRA -.1518 RC3 .1461 FAU .05419
 FDE 3.5030 FRA 5.0023 FC3-2.0769 BSP 19734
 BOE 2.6992 BRA 3.4105 BC3 2.3123 FSP -2653

MID-COURSE EXECUTION ACCURACY

SGT 6179.3 SGR 387.2 SG3 728.2
 RRT -.1577 RRF -.1646 RTF .9907
 SGB 6191.4 R23 .0079 R13 -.9907
 SG1 6179.6 SG2 382.3 THA 179.43

ORBIT DETERMINATION ACCURACY

ST 3544.9 SR 298.9 SS 1951.2
 CRT .8062 CRS -.7784 CST -.9989
 LSA 4052.7 MSA 195.4 SSA 12.7
 EL1 3553.1 EL2 176.4 ALF 3.90

LAUNCH DATE DEC 3 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 571.908

RL 147.45 LAL -0.00 LOL 70.90 VL 27.722 GAL 7.13 AZL 86.70 HCA 257.07 SMA 128.65 ECC .19088 INC 3.3041 V1 30.216
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.489 GAP 6.60 AZP 90.74 TAL 146.58 TAP 43.64 RCA 104.09 APO 153.20 V2 34.794
 RC 118.823 GL 18.97 GP 2.48 ZAL 40.65 ZAP 150.72 ETS 5.06 ZAE 125.38 ETE 176.99 ZAC 91.10 ETC 166.34 CLP-150.81

PLANETOCENTRIC CONIC

C3 23.785 VHL 4.877 DLA 30.66 RAL 24.67 RAD 6568.0 VEL 12.048 PTH 2.15 VHP 5.021 DPA -1.92 RAP 357.73 ECC 1.3914
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.71 0 34 38 3894.61 -20.06 159.84 256.67 66.31 1 39 32 3294.6 -23.09 152.29
 102.29 3 51 15 3261.91 -20.05 113.18 256.67 66.30 4 45 37 2661.9 -23.08 105.64
 77.71 0 34 38 3894.61 -20.06 159.84 256.67 66.31 1 39 32 3294.6 -23.09 152.29
 102.29 3 51 15 3261.91 -20.05 113.18 256.67 66.30 4 45 37 2661.9 -23.08 105.64
 110.00 6 38 58 2737.92 -31.16 77.63 260.97 75.17 7 24 36 2137.9 -32.88 68.83
 110.00 2 46 5 3466.60 -9.70 122.90 250.91 57.06 3 43 52 2866.6 -13.97 116.41

DIFFERENTIAL CORRECTIONS

TDE 2.7770 TRA 3.6144 TC3-2.2353 BAU .7121
 ROE .2638 RRA -.1437 RC3 .1345 FAU .04815
 FDE 3.2566 FRA 4.7651 FC3-1.7526 BSP 20239
 BOE 2.7895 BRA 3.6173 BC3 2.2393 FSP -2442

MID-COURSE EXECUTION ACCURACY

SGT 6306.1 SGR 389.6 SG3 668.8
 RRT -.0992 RRF -.1046 RTF .9903
 SGB 6318.1 R23 .0061 R13 -.9903
 SG1 6306.2 SG2 387.6 THA 179.65

ORBIT DETERMINATION ACCURACY

ST 3583.5 SR 315.5 SS 1863.5
 CRT .8170 CRS -.7900 CST -.9989
 LSA 4046.4 MSA 198.8 SSA 12.8
 EL1 3592.8 EL2 181.4 ALF 4.12

LAUNCH DATE DEC 3 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 577.805

RL 147.45 LAL -0.00 LOL 70.90 VL 27.706 GAL 7.44 AZL 86.68 HCA 260.23 SMA 128.53 ECC .19511 INC 3.3228 V1 30.216
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.481 GAP 7.06 AZP 90.56 TAL 145.86 TAP 46.09 RCA 103.45 APO 153.61 V2 34.798
 RC 121.206 GL 18.52 GP 2.33 ZAL 39.85 ZAP 152.81 ETS 5.25 ZAE 124.42 ETE 177.11 ZAC 92.18 ETC 166.36 CLP-152.90

PLANETOCENTRIC CONIC

C3 25.121 VHL 5.012 DLA 30.51 RAL 25.59 RAD 6568.0 VEL 12.104 PTH 2.17 VHP 5.269 DPA -1.61 RAP 358.77 ECC 1.4134
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.14 0 41 28 3898.02 -19.60 159.87 258.44 66.14 1 46 26 3298.0 -22.65 152.36
 101.86 3 51 46 3285.34 -19.58 114.72 258.44 66.13 4 46 32 2685.3 -22.64 107.21
 78.14 0 41 28 3898.02 -19.60 159.87 258.44 66.14 1 46 26 3298.0 -22.65 152.36
 101.86 3 51 46 3285.34 -19.58 114.72 258.44 66.13 4 46 32 2685.3 -22.64 107.21
 110.00 6 45 10 2743.04 -31.07 78.00 262.91 74.96 7 30 53 2143.0 -32.82 69.21
 110.00 2 47 15 3488.32 -8.89 124.07 252.46 56.86 3 45 23 2888.3 -13.19 117.61

DIFFERENTIAL CORRECTIONS

TDE 2.8624 TRA 3.8306 TC3-2.1530 BAU .7242
 ROE .2854 RRA -.1352 RC3 .1233 FAU .04268
 FDE 3.0331 FRA 4.5519 FC3-1.4708 BSP 20711
 BOE 2.8766 BRA 3.8330 BC3 2.1565 FSP -2251

MID-COURSE EXECUTION ACCURACY

SGT 6418.6 SGR 392.3 SG3 615.0
 RRT -.0440 RRF -.0481 RTF .9898
 SGB 6430.6 R23 .0044 R13 -.9898
 SG1 6418.6 SG2 391.9 THA 179.85

ORBIT DETERMINATION ACCURACY

ST 3610.6 SR 330.7 SS 1781.1
 CRT .8252 CRS -.7989 CST -.9989
 LSA 4034.5 MSA 202.1 SSA 12.8
 EL1 3620.9 EL2 186.3 ALF 4.33

LAUNCH DATE DEC 3 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 583.663

RL 147.45 LAL -0.00 LOL 70.90 VL 27.688 GAL 7.78 AZL 86.66 HCA 263.39 SMA 128.41 ECC .19971 INC 3.3411 V1 30.216
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.473 GAP 7.53 AZP 90.38 TAL 145.12 TAP 48.51 RCA 102.77 APO 154.06 V2 34.803
 RC 123.581 GL 18.06 GP 2.20 ZAL 39.03 ZAP 154.78 ETS 5.45 ZAE 123.55 ETE 177.22 ZAC 93.37 ETC 166.37 CLP-154.87

PLANETOCENTRIC CONIC

C3 26.611 VHL 5.159 DLA 30.33 RAL 26.53 RAD 6568.1 VEL 12.165 PTH 2.18 VHP 5.529 DPA -1.24 RAP 359.91 ECC 1.4380
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.65 0 48 57 3900.45 -19.10 159.82 260.27 65.98 1 53 57 3300.5 -22.18 152.35
 101.35 3 51 48 3311.41 -19.08 116.43 260.27 65.96 4 47 0 2711.4 -22.17 108.96
 78.65 0 48 57 3900.45 -19.10 159.82 260.27 65.98 1 53 57 3300.5 -22.18 152.35
 101.35 3 51 48 3311.41 -19.08 116.43 260.27 65.96 4 47 0 2711.4 -22.17 108.96
 110.00 6 51 41 2748.15 -30.97 78.37 264.94 74.76 7 37 29 2148.1 -32.75 69.60
 110.00 2 48 15 3511.71 -8.02 125.32 254.05 56.66 3 46 46 2911.7 -12.35 118.90

DIFFERENTIAL CORRECTIONS

TDE 2.9470 TRA 4.0579 TC3-2.0601 BAU .7340
 ROE .3071 RRA -.1262 RC3 .1124 FAU .03766
 FDE 2.8320 FRA 4.3614 FC3-1.2251 BSP 21123
 BOE 2.9629 BRA 4.0598 BC3 2.0631 FSP -2076

MID-COURSE EXECUTION ACCURACY

SGT 6519.1 SGR 395.2 SG3 566.5
 RRT .0085 RRF .0057 RTF .9894
 SGB 6531.1 R23 -.0027 R13 .9894
 SG1 6519.1 SG2 395.2 THA .03

ORBIT DETERMINATION ACCURACY

ST 3629.3 SR 344.6 SS 1704.5
 CRT .8315 CRS -.8058 CST -.9990
 LSA 4019.1 MSA 205.2 SSA 12.8
 EL1 3640.6 EL2 190.8 ALF 4.53

LAUNCH DATE DEC 3 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 589.478

RL 147.45 LAL -.00 LOL 70.90 VL 27.671 GAL 8.14 AZL 86.64 HCA 266.56 SMA 128.29 ECC .20471 INC 3.3591 V1 30.216
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.465 GAP 8.01 AZP 90.20 TAL 144.37 TAP 50.93 RCA 102.03 APO 154.55 V2 34.808
 RC 125.948 GL 17.57 GP 2.09 ZAL 38.20 ZAP 156.65 ETS 5.68 ZAE 122.76 ETE 177.33 ZAC 94.65 ETC 166.38 CLP-156.74

PLANETOCENTRIC CONIC

C3 28.276 VHL 5.318 DLA 30.14 RAL 27.49 RAD 6568.1 VEL 12.233 PTH 2.20 VHP 5.803 DPA -.82 RAP 1.14 ECC 1.4654
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.23 3 57 3 3901.88 -18.56 159.68 262.17 65.82 2 2 5 3301.9 -21.67 152.24
 100.77 3 51 19 3340.18 -18.55 118.33 262.16 65.81 4 46 59 2740.2 -21.66 110.90
 79.23 0 57 3 3901.88 -18.56 159.68 262.17 65.82 2 2 5 3301.9 -21.67 152.24
 100.77 3 51 19 3340.18 -18.55 118.33 262.16 65.81 4 46 59 2740.2 -21.66 110.90
 110.00 6 58 28 2753.35 -30.88 78.75 267.04 74.56 7 44 21 2153.4 -32.69 69.99
 110.00 2 49 4 3536.71 -7.08 126.65 255.69 56.47 3 48 1 2936.7 -11.44 120.27

DIFFERENTIAL CORRECTIONS

TDE 3.0339 TRA 4.3007 TC3-1.9542 BAU .7397
 RDE .3289 RRA -.1166 RC3 .1017 FAU .03285
 FDE 2.6539 FRA 4.1945 FC3-1.0057 BSP 21417
 BDE 3.0517 BRA 4.3023 BC3 1.9568 FSP -1907

MID-COURSE EXECUTION ACCURACY

SGT 6611.9 SGR 398.0 SG3 522.9
 RRT .0591 RRF .0576 RTF .9889
 SGB 6623.8 R23 -.0011 R13 .9889
 SG1 6611.9 SG2 397.3 THA .20

ORBIT DETERMINATION ACCURACY

ST 3643.4 SR 357.1 SS 1635.1
 CRT .8365 CRS -.8115 CST -.9990
 LSA 4004.0 MSA 208.1 SSA 12.8
 EL1 3655.6 EL2 195.0 ALF 4.70

LAUNCH DATE DEC 3 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 595.246

RL 147.45 LAL -.00 LOL 70.90 VL 27.653 GAL 8.53 AZL 86.62 HCA 269.72 SMA 128.17 ECC .21013 INC 3.3771 V1 30.216
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.457 GAP 8.52 AZP 90.02 TAL 143.61 TAP 53.33 RCA 101.24 APO 155.10 V2 34.815
 RC 128.306 GL 17.06 GP 1.98 ZAL 37.36 ZAP 158.43 ETS 5.94 ZAE 122.05 ETE 177.42 ZAC 96.02 ETC 166.39 CLP-158.52

PLANETOCENTRIC CONIC

C3 30.140 VHL 5.490 DLA 29.93 RAL 28.45 RAD 6568.2 VEL 12.309 PTH 2.22 VHP 6.091 DPA -.34 RAP 2.44 ECC 1.4960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.89 1 5 57 3901.75 -18.00 159.40 264.12 65.68 2 10 58 3301.7 -21.13 152.00
 100.11 3 50 6 3372.26 -17.98 120.45 264.11 65.67 4 46 19 2772.3 -21.12 113.05
 79.89 1 5 57 3901.75 -18.00 159.40 264.12 65.68 2 10 58 3301.7 -21.13 152.00
 100.11 3 50 6 3372.26 -17.98 120.45 264.11 65.67 4 46 19 2772.3 -21.12 113.05
 110.00 7 5 29 2758.73 -30.78 79.13 269.21 74.35 7 51 28 2158.7 -32.62 70.40
 110.00 2 49 44 3563.27 -6.08 128.05 257.38 56.30 3 49 8 2963.3 -10.46 121.71

DIFFERENTIAL CORRECTIONS

TDE 3.1160 TRA 4.5524 TC3-1.8482 BAU .7456
 RDE .3509 RRA -.1061 RC3 .0915 FAU .02871
 FDE 2.4881 FRA 4.0407 FC3 -.8246 BSP 21781
 BDE 3.1357 BRA 4.5537 BC3 1.8504 FSP -1765

MID-COURSE EXECUTION ACCURACY

SGT 6689.2 SGR 400.7 SG3 482.9
 RRT .1070 RRF .1065 RTF .9885
 SGB 6701.2 R23 .0003 R13 .9885
 SG1 6689.3 SG2 398.4 THA .37

ORBIT DETERMINATION ACCURACY

ST 3644.7 SR 368.3 SS 1567.7
 CRT .8403 CRS -.8158 CST -.9990
 LSA 3979.0 MSA 210.7 SSA 12.7
 EL1 3657.8 EL2 198.9 ALF 4.87

LAUNCH DATE DEC 3 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 600.961

RL 147.45 LAL -.00 LOL 70.90 VL 27.634 GAL 8.96 AZL 86.60 HCA 272.89 SMA 128.04 ECC .21602 INC 3.3951 V1 30.216
 RP 108.83 LAP -3.39 LOP 343.79 VP 37.450 GAP 9.04 AZP 89.83 TAL 142.84 TAP 55.73 RCA 100.38 APO 155.70 V2 34.821
 RC 130.653 GL 16.54 GP 1.89 ZAL 36.51 ZAP 160.14 ETS 6.24 ZAE 121.40 ETE 177.52 ZAC 97.45 ETC 166.39 CLP-160.22

PLANETOCENTRIC CONIC

C3 32.230 VHL 5.677 DLA 29.70 RAL 29.42 RAD 6568.3 VEL 12.394 PTH 2.24 VHP 6.395 DPA .18 RAP 3.82 ECC 1.5304
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.66 1 15 42 3899.77 -17.39 158.96 266.12 65.55 2 20 41 3299.8 -20.55 151.61
 99.34 3 48 4 3407.93 -17.38 122.81 266.11 65.54 4 44 52 2807.9 -20.54 115.46
 100.00 4 22 3 3299.34 -20.01 115.96 267.32 67.32 5 17 2 2699.3 -22.91 108.37
 100.00 3 24 24 3483.60 -14.80 127.16 264.84 63.73 4 22 28 2883.6 -18.21 120.02
 110.00 7 12 41 2764.38 -30.68 79.54 271.44 74.13 7 58 46 2164.4 -32.55 70.82
 110.00 2 50 15 3591.32 -5.01 129.53 259.10 56.14 3 50 7 2991.3 -9.43 123.22

DIFFERENTIAL CORRECTIONS

TDE 3.1993 TRA 4.8197 TC3-1.7357 BAU .7487
 RDE .3731 RRA -.0946 RC3 .0817 FAU .02487
 FDE 2.3394 FRA 3.9043 FC3 -.6680 BSP 22098
 BDE 3.2210 BRA 4.8206 BC3 1.7376 FSP -1633

MID-COURSE EXECUTION ACCURACY

SGT 6757.6 SGR 403.1 SG3 446.7
 RRT .1534 RRF .1537 RTF .9881
 SGB 6769.6 R23 .0017 R13 .9881
 SG1 6757.9 SG2 398.3 THA .53

ORBIT DETERMINATION ACCURACY

ST 3640.2 SR 378.0 SS 1505.7
 CRT .8432 CRS -.8194 CST -.9990
 LSA 3951.7 MSA 213.1 SSA 12.7
 EL1 3654.2 EL2 202.4 ALF 5.02

LAUNCH DATE DEC 3 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 606.617

RL 147.45 LAL -.00 LOL 70.90 VL 27.615 GAL 9.42 AZL 86.59 HCA 276.06 SMA 127.91 ECC .22241 INC 3.4132 V1 30.216
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.443 GAP 9.59 AZP 89.64 TAL 142.06 TAP 58.12 RCA 99.46 APO 156.36 V2 34.829
 RC 132.989 GL 16.01 GP 1.80 ZAL 35.66 ZAP 161.77 ETS 6.57 ZAE 120.80 ETE 177.61 ZAC 98.96 ETC 166.38 CLP-161.86

PLANETOCENTRIC CONIC

C3 34.580 VHL 5.880 DLA 29.45 RAL 30.39 RAD 6568.4 VEL 12.488 PTH 2.26 VHP 6.716 DPA .73 RAP 5.25 ECC 1.5691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.56 1 26 32 3895.16 -16.76 158.32 268.17 65.43 2 31 27 3295.2 -19.94 151.00
 98.44 3 44 57 3448.03 -16.74 125.48 268.16 65.42 4 42 25 2848.0 -19.92 118.16
 100.00 4 40 21 3270.69 -20.76 114.16 269.99 67.99 5 34 51 2670.7 -23.56 106.48
 100.00 3 13 49 3547.73 -12.83 130.90 266.20 62.77 4 12 57 2947.7 -16.38 123.91
 110.00 7 20 2 2770.36 -30.57 79.97 273.74 73.89 8 6 13 2170.4 -32.47 71.27
 110.00 2 50 37 3620.83 -3.89 131.08 260.86 56.01 3 50 58 3020.8 -8.33 124.80

DIFFERENTIAL CORRECTIONS

TDE 3.2839 TRA 5.1039 TC3-1.6184 BAU .7489
 RDE .3956 RRA -.0819 RC3 .0725 FAU .02133
 FDE 2.2049 FRA 3.7831 FC3 -.5339 BSP 22375
 BDE 3.3076 BRA 5.1045 BC3 1.6200 FSP -1512

MID-COURSE EXECUTION ACCURACY

SGT 6817.1 SGR 405.2 SG3 413.7
 RRT .1983 RRF .1994 RTF .9878
 SGB 6829.1 R23 .0028 R13 .9878
 SG1 6817.6 SG2 397.2 THA .68

ORBIT DETERMINATION ACCURACY

ST 3629.9 SR 386.4 SS 1448.2
 CRT .8456 CRS -.8224 CST -.9991
 LSA 3921.2 MSA 215.0 SSA 12.5
 EL1 3644.6 EL2 205.5 ALF 5.16

LAUNCH DATE DEC 4 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 12 1969

HELIOCENTRIC CONIC

DISTANCE 129.788

RL 147.43 LAL -0.00 LOL 71.91 VL 16.024 GAL 28.44 AZL 86.97 HCA 36.49 SMA 85.97 ECC .78857 INC 3.0253 V1 30.221
 RP 107.53 LAP 1.80 LOP 108.37 VP 30.409 GAP -50.56 AZP 87.57 TAL 171.29 TAP 207.78 RCA 18.18 APO 153.77 V2 35.240
 RC 85.353 GL 2.37 GP -31 ZAL 64.00 ZAP 34.24 ETS 178.18 ZAE 133.29 ETE 186.35 ZAC 58.47 ETC 161.68 CLP 34.24

PLANETOCENTRIC CONIC

C3 323.516 VHL 17.987 DLA 5.32 RAL 6.35 RAD 6571.8 VEL 21.091 PTH 3.20 VHP 28.299 DPA -17.20 RAP 326.13 ECC 6.3243
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 15 12 2963.22 -28.15 93.75 273.06 86.84 7 4 36 2363.2 -28.30 85.09
 90.00 19 32 42 5275.81 27.03 238.62 267.51 81.21 21 0 38 4675.8 25.53 230.27
 100.00 7 39 4 2692.75 -29.75 73.96 273.16 86.94 8 23 56 2092.8 -29.86 65.16
 100.00 20 51 32 5021.51 28.60 219.64 267.23 80.93 22 15 14 4421.5 27.05 211.18
 110.00 8 53 4 2461.15 -34.08 56.64 273.42 87.21 9 34 5 1861.2 -34.09 47.39
 110.00 21 54 1 4825.88 32.88 203.96 266.40 80.09 23 14 27 4225.9 31.17 195.16

DIFFERENTIAL CORRECTIONS

TDE -.8762 TRA-2.1044 TC3 -.1111 BAU .4824
 RDE-1.2672 RRA .6441 RC3 -.0100 FAU .01134
 FDE .3789 FRA .7335 FC3 -.0303 BSP 2005
 BOE 1.5406 BRA 2.2008 BC3 .1115 FSP -50

MID-COURSE EXECUTION ACCURACY

SGT 831.2 SGR 454.6 SG3 24.7
 RRT -.0310 RRF .0274 RTF -.6238
 SGB 947.4 R23 .0002 R13 .6238
 SG1 931.4 SG2 454.3 THA 178.61

ORBIT DETERMINATION ACCURACY

ST 344.7 SR 408.4 SS 341.7
 CRT .7117 CRS .7773 CST .9935
 LSA 593.5 MSA 223.5 SSA 14.0
 EL1 495.8 EL2 199.5 ALF 51.73

LAUNCH DATE DEC 4 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 135.295

RL 147.43 LAL -0.00 LOL 71.91 VL 16.805 GAL 27.10 AZL 86.94 HCA 39.74 SMA 87.43 ECC .76211 INC 3.0647 V1 30.221
 RP 107.52 LAP 1.96 LOP 111.61 VP 30.833 GAP -48.30 AZP 87.64 TAL 170.39 TAP 210.13 RCA 20.80 APO 154.06 V2 35.245
 RC 83.158 GL 2.66 GP -31 ZAL 62.67 ZAP 32.71 ETS 178.24 ZAE 133.27 ETE 186.76 ZAC 60.11 ETC 162.07 CLP 32.71

PLANETOCENTRIC CONIC

C3 296.722 VHL 17.226 DLA 6.12 RAL 7.47 RAD 6571.7 VEL 20.446 PTH 3.16 VHP 27.265 DPA -16.67 RAP 327.83 ECC 5.8833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 36 2978.29 -28.09 94.85 273.82 86.29 7 3 15 2378.3 -28.31 86.19
 90.00 19 43 16 5240.52 26.63 236.11 267.50 80.01 21 10 37 4640.5 24.98 227.83
 100.00 7 37 51 2706.55 -29.70 74.98 273.94 86.41 8 22 58 2106.6 -29.88 66.18
 100.00 21 1 42 4987.49 28.21 217.19 267.18 79.69 22 24 50 4387.5 26.50 208.80
 110.00 8 52 45 2472.16 -34.04 57.50 274.25 86.71 9 33 57 1872.2 -34.12 48.25
 110.00 22 3 18 4794.65 32.49 201.61 266.24 78.75 23 23 12 4194.6 30.60 192.90

DIFFERENTIAL CORRECTIONS

TDE -.8803 TRA-2.1229 TC3 -.1185 BAU .4723
 RDE-1.2282 RRA .6225 RC3 -.0113 FAU .01139
 FDE .3943 FRA .7606 FC3 -.0332 BSP 2143
 BOE 1.5111 BRA 2.2123 BC3 .1191 FSP -55

MID-COURSE EXECUTION ACCURACY

SGT 869.9 SGR 460.2 SG3 26.6
 RRT -.0308 RRF .0273 RTF -.6427
 SGB 984.2 R23 .0002 R13 .6428
 SG1 870.1 SG2 459.9 THA 178.70

ORBIT DETERMINATION ACCURACY

ST 362.3 SR 413.3 SS 357.6
 CRT .7100 CRS .7781 CST .9932
 LSA 614.0 MSA 229.6 SSA 14.2
 EL1 509.1 EL2 207.1 ALF 50.26

LAUNCH DATE DEC 4 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 140.922

RL 147.43 LAL -0.00 LOL 71.91 VL 17.539 GAL 25.86 AZL 86.90 HCA 42.99 SMA 88.90 ECC .73564 INC 3.0992 V1 30.221
 RP 107.51 LAP 2.11 LOP 114.86 VP 31.244 GAP -46.16 AZP 87.73 TAL 169.49 TAP 212.48 RCA 23.50 APO 154.30 V2 35.249
 RC 80.975 GL 2.96 GP -32 ZAL 61.38 ZAP 31.20 ETS 178.29 ZAE 133.32 ETE 187.19 ZAC 61.78 ETC 162.45 CLP 31.20

PLANETOCENTRIC CONIC

C3 272.296 VHL 16.501 DLA 6.91 RAL 8.55 RAD 6571.6 VEL 19.840 PTH 3.13 VHP 26.267 DPA -16.13 RAP 329.55 ECC 5.4813
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 51 2992.60 -28.03 95.89 274.48 85.77 7 1 44 2392.6 -28.32 87.24
 90.00 19 53 36 5204.89 26.19 233.60 267.43 78.83 21 20 21 4604.9 24.38 225.39
 100.00 7 36 30 2719.59 -29.64 75.95 274.62 85.90 8 21 49 2119.6 -29.89 67.15
 100.00 21 11 39 4953.13 27.77 214.73 267.08 78.47 22 34 12 4353.1 25.90 206.43
 110.00 8 52 17 2482.40 -34.00 58.29 274.97 86.24 9 33 39 1882.4 -34.15 49.05
 110.00 22 12 21 4763.09 32.05 199.25 266.02 77.42 23 31 44 4163.1 29.99 190.65

DIFFERENTIAL CORRECTIONS

TDE -.8842 TRA-2.1411 TC3 -.1261 BAU .4614
 RDE-1.1890 RRA .6004 RC3 -.0128 FAU .01145
 FDE .4100 FRA .7879 FC3 -.0364 BSP 2296
 BOE 1.4818 BRA 2.2237 BC3 .1267 FSP -61

MID-COURSE EXECUTION ACCURACY

SGT 910.1 SGR 465.1 SG3 28.7
 RRT -.0305 RRF .0271 RTF -.6610
 SGB 1022.1 R23 .0002 R13 .6610
 SG1 910.2 SG2 464.8 THA 178.79

ORBIT DETERMINATION ACCURACY

ST 380.6 SR 417.6 SS 373.7
 CRT .7084 CRS .7788 CST .9929
 LSA 635.1 MSA 235.5 SSA 14.4
 EL1 522.7 EL2 214.7 ALF 48.74

LAUNCH DATE DEC 4 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 146.662

RL 147.43 LAL -0.00 LOL 71.91 VL 18.228 GAL 24.70 AZL 86.87 HCA 46.23 SMA 90.40 ECC .70933 INC 3.1297 V1 30.221
 RP 107.50 LAP 2.26 LOP 118.10 VP 31.639 GAP -44.12 AZP 87.83 TAL 168.61 TAP 214.84 RCA 26.27 APO 154.52 V2 35.253
 RC 78.802 GL 3.28 GP -33 ZAL 60.15 ZAP 29.72 ETS 178.34 ZAE 133.44 ETE 187.64 ZAC 63.47 ETC 162.81 CLP 29.71

PLANETOCENTRIC CONIC

C3 249.999 VHL 15.811 DLA 7.69 RAL 9.57 RAD 6571.5 VEL 19.269 PTH 3.10 VHP 25.302 DPA -15.56 RAP 331.28 ECC 5.1143
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 9 55 3006.18 -27.95 96.88 275.05 85.28 7 0 1 2406.2 -28.31 88.23
 90.00 20 3 44 5168.88 25.69 231.08 267.30 77.66 21 29 52 4568.9 23.73 222.95
 100.00 7 34 58 2731.89 -29.57 76.86 275.20 85.43 8 20 30 2131.9 -29.89 68.07
 100.00 21 21 22 4918.40 27.27 212.27 266.91 77.27 22 43 21 4318.4 25.25 204.05
 110.00 8 51 39 2491.89 -33.96 59.03 275.59 85.80 9 33 11 1891.9 -34.16 49.79
 110.00 22 21 10 4731.17 31.55 196.90 265.75 76.11 23 40 1 4131.2 29.32 188.40

DIFFERENTIAL CORRECTIONS

TDE -.8901 TRA-2.1610 TC3 -.1341 BAU .4509
 RDE-1.1498 RRA .5779 RC3 -.0145 FAU .01152
 FDE .4264 FRA .8160 FC3 -.0399 BSP 2409
 BOE 1.4541 BRA 2.2370 BC3 .1349 FSP -67

MID-COURSE EXECUTION ACCURACY

SGT 953.1 SGR 469.4 SG3 31.0
 RRT -.0295 RRF .0265 RTF -.6786
 SGB 1062.4 R23 -.0001 R13 .6786
 SG1 953.2 SG2 469.1 THA 178.90

ORBIT DETERMINATION ACCURACY

ST 400.5 SR 421.4 SS 390.4
 CRT .7073 CRS .7798 CST .9927
 LSA 657.4 MSA 241.0 SSA 14.6
 EL1 537.3 EL2 222.1 ALF 47.06

LAUNCH DATE DEC 4 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 152.511

RL 147.43 LAL -0.00 LOL 71.91 VL 18.876 GAL 23.61 AZL 86.84 MCA 49.48 SMA 91.90 ECC .68330 INC 3.1571 V1 30.221
 RP 107.49 LAP 2.40 LOP 121.35 VP 32.020 GAP -42.19 AZP 87.95 TAL 167.73 TAP 217.21 RCA 29.10 APO 154.69 V2 35.255
 RC 76.644 GL 3.60 GP -.34 ZAL 58.97 ZAP 28.25 ETS 178.39 ZAE 133.65 ETE 188.11 ZAC 65.19 ETC 163.15 CLP 28.25

PLANETOCENTRIC CONIC

C3 229.628 VHL 15.153 DLA 8.46 RAL 10.55 RAD 6571.3 VEL 18.733 PTH 3.06 VHP 24.368 DPA -14.97 RAP 333.02 ECC 4.7791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 49 3019.05 -27.88 97.81 275.51 84.82 6 58 8 2419.0 -28.30 89.17
 90.00 20 13 39 5132.43 25.13 228.55 267.11 76.51 21 39 11 4532.4 23.03 220.51
 100.00 7 33 16 2743.47 -29.51 77.71 275.67 84.98 8 18 59 2143.5 -29.89 68.93
 100.00 21 30 53 4883.24 26.72 209.80 266.68 76.08 22 52 17 4283.2 24.54 201.68
 110.00 8 50 51 2500.64 -33.91 59.71 276.11 85.40 9 32 32 1900.6 -34.17 50.47
 110.00 22 29 47 4698.84 31.00 194.54 265.41 74.82 23 48 6 4098.8 28.61 186.16

DIFFERENTIAL CORRECTIONS

TDE -.9088 TRA-2.1931 TC3 -.1445 BAU .4464
 RDE-1.1103 RRA .5553 RC3 -.0162 FAU .01154
 FDE .4446 FRA .8460 FC3 -.0435 BSP 2229
 BDE 1.4348 BRA 2.2623 BC3 .1454 FSP -70

MID-COURSE EXECUTION ACCURACY

SGT 1006.3 SGR 473.0 SG3 33.5
 RRT -.0255 RRF .0249 RTF -.6952
 SGB 1111.9 R23 -.0022 R13 .6952
 SG1 1006.4 SG2 472.8 THA 179.12

ORBIT DETERMINATION ACCURACY

ST 426.0 SR 424.6 SS 408.7
 CRT .7090 CRS .7811 CST .9928
 LSA 684.2 MSA 246.0 SSA 14.9
 EL1 556.0 EL2 229.4 ALF 44.87

LAUNCH DATE DEC 4 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 158.453

RL 147.43 LAL -0.00 LOL 71.91 VL 19.484 GAL 22.57 AZL 86.82 MCA 52.73 SMA 93.41 ECC .65762 INC 3.1819 V1 30.221
 RP 107.48 LAP 2.53 LOP 124.60 VP 32.384 GAP -40.36 AZP 88.07 TAL 166.86 TAP 219.59 RCA 31.98 APO 154.84 V2 35.257
 RC 74.503 GL 3.94 GP -.35 ZAL 57.84 ZAP 26.80 ETS 178.43 ZAE 133.94 ETE 188.62 ZAC 66.92 ETC 163.48 CLP 26.80

PLANETOCENTRIC CONIC

C3 210.962 VHL 14.525 DLA 9.22 RAL 11.48 RAD 6571.2 VEL 18.229 PTH 3.02 VHP 23.464 DPA -14.36 RAP 334.78 ECC 4.4719
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 5 31 3031.19 -27.80 98.69 275.86 84.39 6 56 2 2431.2 -28.29 90.06
 90.00 20 23 22 5095.51 24.52 226.02 266.86 75.38 21 48 17 4495.5 22.28 218.07
 100.00 7 31 22 2754.30 -29.44 78.51 276.04 84.57 8 17 16 2154.3 -29.88 69.73
 100.00 21 40 12 4847.63 26.11 207.33 266.39 74.91 23 1 0 4247.6 23.79 199.30
 110.00 8 49 53 2508.62 -33.86 60.33 276.51 85.04 9 31 41 1908.6 -34.18 51.10
 110.00 22 38 11 4666.08 30.39 192.18 265.02 73.54 23 55 57 4066.1 27.84 183.92

DIFFERENTIAL CORRECTIONS

TDE -.8710 TRA-2.1679 TC3 -.1447 BAU .4114
 RDE-1.0715 RRA .5316 RC3 -.0183 FAU .01188
 FDE .4566 FRA .8700 FC3 -.0488 BSP 3408
 BDE 1.3808 BRA 2.2321 BC3 .1459 FSP -87

MID-COURSE EXECUTION ACCURACY

SGT 1022.4 SGR 476.0 SG3 36.0
 RRT -.0338 RRF .0265 RTF -.7130
 SGB 1127.8 R23 .0042 R13 .7130
 SG1 1022.6 SG2 475.7 THA 178.85

ORBIT DETERMINATION ACCURACY

ST 431.0 SR 427.4 SS 422.0
 CRT .6985 CRS .7807 CST .9913
 LSA 695.1 MSA 251.4 SSA 14.8
 EL1 559.4 EL2 235.7 ALF 44.66

LAUNCH DATE DEC 4 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 164.495

RL 147.43 LAL -0.00 LOL 71.91 VL 20.056 GAL 21.59 AZL 86.80 MCA 55.97 SMA 94.92 ECC .63244 INC 3.2047 V1 30.221
 RP 107.48 LAP 2.66 LOP 127.85 VP 32.733 GAP -38.60 AZP 88.21 TAL 166.01 TAP 221.99 RCA 34.89 APO 154.95 V2 35.258
 RC 72.381 GL 4.29 GP -.36 ZAL 56.76 ZAP 25.37 ETS 178.46 ZAE 134.31 ETE 189.15 ZAC 68.68 ETC 163.79 CLP 25.37

PLANETOCENTRIC CONIC

C3 193.904 VHL 13.925 DLA 9.97 RAL 12.37 RAD 6571.1 VEL 17.755 PTH 2.99 VHP 22.589 DPA -13.74 RAP 336.54 ECC 4.1912
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 3 1 3042.73 -27.72 99.53 276.12 83.97 6 53 44 2442.7 -28.27 90.91
 90.00 20 32 55 5058.06 23.86 223.48 266.56 74.27 21 57 13 4458.1 21.47 215.62
 100.00 7 29 17 2764.50 -29.37 79.26 276.31 84.18 8 15 22 2164.5 -29.87 70.49
 100.00 21 49 20 4811.51 25.45 204.85 266.05 73.77 23 9 32 4211.5 22.98 196.92
 110.00 8 48 43 2515.93 -33.82 60.89 276.82 84.71 9 30 39 1915.9 -34.18 51.67
 110.00 22 46 24 4632.85 29.73 189.82 264.58 72.29 24 3 36 4032.8 27.02 181.68

DIFFERENTIAL CORRECTIONS

TDE -.8919 TRA-2.2006 TC3 -.1556 BAU .4069
 RDE-1.0321 RRA .5085 RC3 -.0204 FAU .01193
 FDE .4761 FRA .9015 FC3 -.0533 BSP 3190
 BDE 1.3641 BRA 2.2586 BC3 .1570 FSP -91

MID-COURSE EXECUTION ACCURACY

SGT 1080.6 SGR 478.2 SG3 38.9
 RRT -.0286 RRF .0243 RTF -.7282
 SGB 1181.7 R23 .0016 R13 .7282
 SG1 1080.7 SG2 478.0 THA 179.10

ORBIT DETERMINATION ACCURACY

ST 459.3 SR 429.4 SS 441.5
 CRT .7012 CRS .7823 CST .9915
 LSA 724.3 MSA 255.6 SSA 15.1
 EL1 580.2 EL2 242.3 ALF 42.26

LAUNCH DATE DEC 4 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 170.622

RL 147.43 LAL -0.00 LOL 71.91 VL 20.593 GAL 20.66 AZL 86.77 MCA 59.22 SMA 96.42 ECC .60778 INC 3.2258 V1 30.221
 RP 107.48 LAP 2.77 LOP 131.10 VP 33.065 GAP -36.93 AZP 88.35 TAL 165.18 TAP 224.40 RCA 37.82 APO 155.03 V2 35.259
 RC 70.281 GL 4.66 GP -.38 ZAL 55.74 ZAP 23.96 ETS 178.49 ZAE 134.78 ETE 189.71 ZAC 70.45 ETC 164.08 CLP 23.96

PLANETOCENTRIC CONIC

C3 178.269 VHL 13.352 DLA 10.71 RAL 13.20 RAD 6570.9 VEL 17.309 PTH 2.95 VHP 21.740 DPA -13.10 RAP 338.30 ECC 3.9339
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 19 3053.63 -27.64 100.32 276.27 83.59 6 51 13 2453.6 -28.24 91.70
 90.00 20 42 18 5020.04 23.13 220.93 266.20 73.19 22 5 58 4420.0 20.61 213.16
 100.00 7 27 0 2774.05 -29.30 79.96 276.48 83.81 8 13 14 2174.0 -29.85 71.20
 100.00 21 58 17 4774.86 24.73 202.36 265.66 72.65 23 17 52 4174.9 22.12 194.54
 110.00 8 47 22 2522.55 -33.78 61.41 277.02 84.41 9 29 25 1922.6 -34.18 52.19
 110.00 22 54 25 4599.12 29.00 187.46 264.09 71.06 24 11 4 3999.1 26.15 179.45

DIFFERENTIAL CORRECTIONS

TDE -.8974 TRA-2.2167 TC3 -.1636 BAU .3938
 RDE -.9929 RRA .4850 RC3 -.0227 FAU .01208
 FDE .4945 FRA .9318 FC3 -.0587 BSP 3352
 BDE 1.3384 BRA 2.2692 BC3 .1652 FSP -99

MID-COURSE EXECUTION ACCURACY

SGT 1129.8 SGR 479.7 SG3 41.9
 RRT -.0267 RRF .0228 RTF -.7432
 SGB 1227.4 R23 .0014 R13 .7432
 SG1 1129.9 SG2 479.5 THA 179.21

ORBIT DETERMINATION ACCURACY

ST 482.5 SR 430.8 SS 459.9
 CRT .7007 CRS .7835 CST .9912
 LSA 749.9 MSA 259.5 SSA 15.3
 EL1 597.3 EL2 248.3 ALF 40.40

LAUNCH DATE DEC 4 1968

FLIGHT TIME 86.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 176.831

RL 147.43 LAL -0.00 LOL 71.91 VL 21.097 GAL 19.77 AZL 86.75 MCA 62.47 SMA 97.92 ECC .58372 INC 3.2456 V1 30.221
 RP 107.48 LAP 2.88 LOP 134.35 VP 33.381 GAP -35.33 AZP 88.50 TAL 164.36 TAP 226.83 RCA 40.76 APO 155.08 V2 35.259
 RC 68.209 GL 5.04 GP -.39 ZAL 54.76 ZAP 22.56 ETS 178.50 ZAE 135.34 ETE 190.31 ZAC 72.24 ETC 164.36 CLP 22.56

PLANETOCENTRIC CONIC

C3 163.941 VHL 12.804 CLA 11.45 RAL 13.99 RAD 6570.8 VEL 16.890 PTH 2.91 VHP 20.918 DPA -12.44 RAP 340.08 ECC 3.6981
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 23 3063.97 -27.56 101.06 276.33 83.22 6 48 27 2464.0 -28.21 92.46
 90.00 20 51 31 4981.43 22.35 218.37 265.79 72.14 22 14 32 4381.4 19.70 210.70
 100.00 7 24 30 2782.99 -29.24 80.62 276.55 83.47 8 10 53 2183.0 -29.83 71.86
 100.00 22 7 5 4737.64 23.95 199.87 265.22 71.56 23 26 2 4137.6 21.21 192.15
 110.00 8 45 50 2528.52 -33.74 61.87 277.12 84.14 9 27 58 1928.5 -34.18 92.65
 110.00 23 2 15 4564.88 28.23 185.10 263.55 69.86 24 18 20 3964.9 25.22 177.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9040 TRA-2.2327 TC3 -.1718 BAU .3806 SGT 1181.7 SGR 480.5 SG3 45.2 ST 507.3 SR 431.6 SS 479.1
 RDE -.9540 RRA .4616 RC3 -.0252 FAU .01225 RRT -.0241 RRF .0209 RTF -.7576 CRT .7006 CRS .7848 CST .9910
 FDE .5137 FRA .9630 FC3 -.0647 BSP 3494 SGB 1275.6 R23 .0010 R13 .7576 LSA 777.0 MSA 262.8 SSA 15.4
 BDE 1.3143 BRA 2.2799 BC3 .1737 FSP -108 SG1 1181.7 SG2 480.3 THA 179.33 EL1 615.8 EL2 253.7 ALF 38.48

LAUNCH DATE DEC 4 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 183.114

RL 147.43 LAL -0.00 LOL 71.91 VL 21.571 GAL 18.92 AZL 86.74 MCA 65.72 SMA 99.40 ECC .56031 INC 3.2641 V1 30.221
 RP 107.48 LAP 2.98 LOP 137.60 VP 33.682 GAP -33.80 AZP 88.66 TAL 163.57 TAP 229.28 RCA 43.71 APO 155.10 V2 35.257
 RC 66.167 GL 5.43 GP -.41 ZAL 53.84 ZAP 21.18 ETS 178.50 ZAE 136.00 ETE 190.94 ZAC 74.04 ETC 164.62 CLP 21.17

PLANETOCENTRIC CONIC

C3 150.805 VHL 12.280 CLA 12.18 RAL 14.73 RAD 6570.6 VEL 16.496 PTH 2.87 VHP 20.121 DPA -11.77 RAP 341.85 ECC 3.4819
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 54 13 3073.79 -27.48 101.77 276.28 82.88 6 45 27 2473.8 -28.18 93.17
 90.00 21 0 35 4942.18 21.51 215.80 265.33 71.12 22 22 58 4342.2 18.73 208.22
 100.00 7 21 47 2791.38 -29.17 81.23 276.52 83.16 8 8 18 2191.4 -29.81 72.49
 100.00 22 15 43 4699.82 23.11 197.38 264.73 70.50 23 34 2 4099.8 20.24 189.76
 110.00 8 44 5 2533.87 -33.70 62.28 277.12 83.90 9 26 19 1933.9 -34.18 53.07
 110.00 23 9 54 4530.10 27.39 182.74 262.97 68.70 24 25 24 3930.1 24.24 174.98

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9106 TRA-2.2472 TC3 -.1799 BAU .3671 SGT 1235.4 SGR 480.5 SG3 48.8 ST 533.1 SR 431.6 SS 498.9
 RDE -.9153 RRA .4382 RC3 -.0280 FAU .01245 RRT -.0212 RRF .0186 RTF -.7712 CRT .7008 CRS .7863 CST .9908
 FDE .5338 FRA .9951 FC3 -.0715 BSP 3646 SGB 1325.5 R23 .0006 R13 .7712 LSA 805.4 MSA 265.6 SSA 15.6
 BDE 1.2911 BRA 2.2895 BC3 .1821 FSP -117 SG1 1235.5 SG2 480.3 THA 179.44 EL1 635.4 EL2 258.3 ALF 36.56

LAUNCH DATE DEC 4 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 189.466

RL 147.43 LAL -0.00 LOL 71.91 VL 22.017 GAL 18.10 AZL 86.72 MCA 68.97 SMA 100.87 ECC .53759 INC 3.2818 V1 30.221
 RP 107.49 LAP 3.06 LOP 140.85 VP 33.967 GAP -32.33 AZP 88.82 TAL 162.79 TAP 231.76 RCA 46.64 APO 155.10 V2 35.256
 RC 64.161 GL 5.84 GP -.42 ZAL 52.97 ZAP 19.80 ETS 178.49 ZAE 136.76 ETE 191.63 ZAC 75.86 ETC 164.87 CLP 19.80

PLANETOCENTRIC CONIC

C3 138.758 VHL 11.780 CLA 12.90 RAL 15.42 RAD 6570.5 VEL 16.127 PTH 2.84 VHP 19.347 DPA -11.08 RAP 343.63 ECC 3.2836
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 50 48 3083.15 -27.40 102.44 276.13 82.55 6 42 11 2483.2 -28.15 93.86
 90.00 21 9 32 4902.26 20.60 213.22 264.83 70.13 22 31 14 4302.3 17.71 205.74
 100.00 7 18 49 2799.27 -29.10 81.81 276.38 82.86 8 5 28 2199.3 -29.79 73.07
 100.00 22 24 12 4661.38 22.22 194.87 264.19 69.47 23 41 53 4061.4 19.23 187.35
 110.00 8 42 7 2538.65 -33.66 62.65 277.01 83.68 9 24 25 1938.6 -34.17 53.44
 110.00 23 17 23 4494.77 26.49 180.39 262.34 67.56 24 32 18 3894.8 23.21 172.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9146 TRA-2.2574 TC3 -.1871 BAU .3518 SGT 1288.8 SGR 479.7 SG3 52.6 ST 558.8 SR 431.0 SS 519.1
 RDE -.8769 RRA .4150 RC3 -.0309 FAU .01269 RRT -.0185 RRF .0162 RTF -.7844 CRT .7007 CRS .7879 CST .9905
 FDE .5545 FRA 1.0279 FC3 -.0792 BSP 3866 SGB 1375.2 R23 .0006 R13 .7844 LSA 834.0 MSA 267.9 SSA 15.7
 BDE 1.2671 BRA 2.2952 BC3 .1896 FSP -128 SG1 1288.9 SG2 479.6 THA 179.54 EL1 655.2 EL2 262.3 ALF 34.73

LAUNCH DATE DEC 4 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 195.882

RL 147.43 LAL -0.00 LOL 71.91 VL 22.435 GAL 17.33 AZL 86.70 MCA 72.21 SMA 102.32 ECC .51558 INC 3.2987 V1 30.221
 RP 107.50 LAP 3.14 LOP 144.10 VP 34.237 GAP -30.91 AZP 88.99 TAL 162.04 TAP 234.26 RCA 49.56 APO 155.07 V2 35.253
 RC 62.196 GL 6.26 GP -.44 ZAL 52.15 ZAP 18.44 ETS 178.45 ZAE 137.63 ETE 192.37 ZAC 77.68 ETC 165.11 CLP 18.43

PLANETOCENTRIC CONIC

C3 127.712 VHL 11.301 CLA 13.62 RAL 16.07 RAD 6570.4 VEL 15.781 PTH 2.80 VHP 18.597 DPA -10.38 RAP 345.41 ECC 3.1018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 6 3092.13 -27.32 103.09 275.89 82.23 6 38 38 2492.1 -28.11 94.51
 90.00 21 18 21 4861.65 19.64 210.63 264.28 69.18 22 39 23 4261.6 16.64 203.24
 100.00 7 15 36 2806.72 -29.04 82.35 276.15 82.58 8 2 23 2206.7 -29.76 73.63
 100.00 22 32 33 4622.29 21.26 192.36 263.61 68.48 23 49 35 4022.3 18.15 184.95
 110.00 8 39 55 2542.90 -33.63 62.98 276.81 83.49 9 22 18 1942.9 -34.17 53.77
 110.00 23 24 43 4458.88 25.54 178.03 261.68 66.46 24 39 2 3858.9 22.13 170.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9216 TRA-2.2688 TC3 -.1948 BAU .3376 SGT 1346.5 SGR 478.1 SG3 56.8 ST 587.0 SR 429.7 SS 540.5
 RDE -.8389 RRA .3919 RC3 -.0340 FAU .01295 RRT -.0147 RRF .0132 RTF -.7968 CRT .7016 CRS .7897 CST .9904
 FDE .5767 FRA 1.0620 FC3 -.0878 BSP 4028 SGB 1428.8 R23 .0002 R13 .7968 LSA 865.2 MSA 269.4 SSA 15.9
 BDE 1.2462 BRA 2.3024 BC3 .1977 FSP -139 SG1 1346.5 SG2 478.1 THA 179.66 EL1 677.4 EL2 265.4 ALF 32.84

LAUNCH DATE DEC 4 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 202.356

RL 147.43 LAL -.00 LOL 71.91 VL 22.828 GAL 16.58 AZL 86.68 MCA 75.46 SMA 103.74 ECC .49431 INC 3.3150 V1 ⁺ 30.221
 RP 107.51 LAP 3.21 LOP 147.35 VP 34.492 GAP -29.56 AZP 89.17 TAL 161.32 TAP 236.78 RCA 52.46 APO 155.02 V2 35.250
 RC 60.278 GL 6.70 GP -.46 ZAL 51.39 ZAP 17.08 ETS 178.38 ZAE 138.62 ETE 193.17 ZAC 79.51 ETC 165.32 CLP 17.08

PLANETOCENTRIC CONIC

C3 117.581 VHL 10.843 DLA 14.34 RAL 16.66 RAD 6570.2 VEL 15.457 PTH 2.76 VHP 17.870 DPA -9.67 RAP 347.19 ECC 2.9351
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 7 3100.80 -27.24 103.71 275.55 81.93 6 34 48 2500.8 -28.07 95.14
 90.00 21 27 5 4820.31 18.62 208.02 263.69 68.27 22 47 25 4220.3 15.51 200.73
 100.00 7 12 7 2813.80 -28.98 82.87 275.83 82.32 7 59 1 2213.8 -29.74 74.15
 100.00 22 40 46 4582.54 20.25 189.84 262.98 67.53 23 57 9 3982.5 17.03 182.53
 110.00 8 37 29 2546.69 -33.60 63.27 276.51 83.32 9 19 56 1946.7 -34.16 54.07
 110.00 23 31 53 4422.42 24.52 175.68 260.97 65.41 24 45 36 3822.4 21.00 168.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9262 TRA-2.2758 TC3 -.2012 BAU .3217 SGT 1403.7 SGR 475.8 SG3 61.3 ST 615.1 SR 427.7 SS 562.5
 RDE -.8013 RRA .3692 RC3 -.0373 FAU .01325 RRT -.0110 RRF .0100 RTF -.8088 CRT .7023 CRS .7916 CST .9901
 FDE .5998 FRA 1.0971 FC3 -.0976 BSP 4256 SGB 1482.2 R23 .0001 R13 .8088 LSA 896.8 MSA 270.4 SSA 16.0
 BDE 1.2247 BRA 2.3056 BC3 .2047 FSP -152 SG1 1403.8 SG2 475.7 THA 179.76 EL1 699.7 EL2 267.6 ALF 31.07

LAUNCH DATE DEC 4 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 208.882

RL 147.43 LAL -.00 LOL 71.91 VL 23.196 GAL 15.87 AZL 86.67 MCA 78.71 SMA 105.13 ECC .47380 INC 3.3308 V1 30.221
 RP 107.52 LAP 3.27 LOP 150.60 VP 34.733 GAP -28.25 AZP 89.35 TAL 160.62 TAP 239.33 RCA 55.32 APO 154.95 V2 35.246
 RC 58.412 GL 7.16 GP -.48 ZAL 50.67 ZAP 15.73 ETS 178.28 ZAE 139.72 ETE 194.04 ZAC 81.35 ETC 165.53 CLP 15.72

PLANETOCENTRIC CONIC

C3 108.292 VHL 10.406 DLA 15.05 RAL 17.21 RAD 6570.1 VEL 15.154 PTH 2.72 VHP 17.164 DPA -8.96 RAP 348.96 ECC 2.7822
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 51 3109.25 -27.15 104.31 275.12 81.64 6 30 40 2509.2 -28.03 95.76
 90.00 21 35 42 4778.22 17.54 205.41 263.06 67.41 22 55 21 4178.2 14.33 198.21
 100.00 7 8 21 2820.59 -28.91 83.37 275.40 82.06 7 55 22 2220.6 -29.71 74.65
 100.00 22 48 53 4542.11 19.18 187.32 262.33 66.62 24 4 35 3942.1 15.85 180.11
 110.00 8 34 49 2550.07 -33.57 63.53 276.11 83.17 9 17 19 1950.1 -34.16 54.33
 110.00 23 38 55 4385.39 23.45 173.34 260.24 64.39 24 52 0 3785.4 19.81 166.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9310 TRA-2.2812 TC3 -.2071 BAU .3057 SGT 1462.9 SGR 472.6 SG3 66.2 ST 644.3 SR 424.9 SS 585.4
 RDE -.7642 RRA .3467 RC3 -.0408 FAU .01359 RRT -.0069 RRF .0064 RTF -.8201 CRT .7034 CRS .7937 CST .9899
 FDE .6244 FRA 1.1335 FC3 -.1087 BSP 4483 SGB 1537.4 R23 -.0001 R13 .8201 LSA 930.0 MSA 270.7 SSA 16.1
 BDE 1.2045 BRA 2.3074 BC3 .2111 FSP -167 SG1 1462.9 SG2 472.6 THA 179.86 EL1 723.5 EL2 269.0 ALF 29.33

LAUNCH DATE DEC 4 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 215.455

RL 147.43 LAL -.00 LOL 71.91 VL 23.542 GAL 15.18 AZL 86.65 MCA 81.95 SMA 106.50 ECC .45406 INC 3.3463 V1 30.221
 RP 107.53 LAP 3.31 LOP 153.85 VP 34.960 GAP -27.00 AZP 89.53 TAL 159.96 TAP 241.91 RCA 58.14 APO 154.85 V2 35.241
 RC 56.605 GL 7.63 GP -.51 ZAL 50.02 ZAP 14.38 ETS 178.13 ZAE 140.94 ETE 194.99 ZAC 83.20 ETC 165.72 CLP 14.38

PLANETOCENTRIC CONIC

C3 99.777 VHL 9.989 DLA 15.76 RAL 17.70 RAD 6569.9 VEL 14.870 PTH 2.68 VHP 16.479 DPA -8.23 RAP 350.74 ECC 2.6421
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 34 14 3117.58 -27.07 104.91 274.59 81.35 6 26 12 2517.6 -27.99 96.36
 90.00 21 44 16 4735.36 16.40 202.78 262.40 66.59 23 3 11 4135.4 13.09 195.66
 100.00 7 4 17 2827.18 -28.85 83.85 274.89 81.82 7 51 24 2227.2 -29.68 75.14
 100.00 22 56 54 4500.99 18.05 184.79 261.63 65.76 24 11 55 3901.0 14.62 177.67
 110.00 8 31 53 2553.12 -33.55 63.76 275.62 83.03 9 14 26 1953.1 -34.15 54.57
 110.00 23 45 48 4347.81 22.33 171.00 259.47 63.42 24 58 16 3747.8 18.58 163.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9364 TRA-2.2845 TC3 -.2124 BAU .2894 SGT 1523.9 SGR 468.6 SG3 71.5 ST 674.9 SR 421.4 SS 609.4
 RDE -.7277 RRA .3247 RC3 -.0445 FAU .01397 RRT -.0021 RRF .0023 RTF -.8309 CRT .7050 CRS .7961 CST .9897
 FDE .6506 FRA 1.1714 FC3 -.1212 BSP 4716 SGB 1594.3 R23 -.0003 R13 .8309 LSA 965.0 MSA 270.3 SSA 16.2
 BDE 1.1859 BRA 2.3074 BC3 .2170 FSP -182 SG1 1523.9 SG2 468.6 THA 179.96 EL1 748.7 EL2 269.4 ALF 27.64

LAUNCH DATE DEC 4 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 222.071

RL 147.43 LAL -.00 LOL 71.91 VL 23.867 GAL 14.53 AZL 86.64 MCA 85.19 SMA 107.83 ECC .43509 INC 3.3615 V1 30.221
 RP 107.55 LAP 3.35 LOP 157.10 VP 35.174 GAP -25.79 AZP 89.72 TAL 159.32 TAP 244.52 RCA 60.91 APO 154.74 V2 35.235
 RC 54.864 GL 8.12 GP -.53 ZAL 49.41 ZAP 13.04 ETS 177.91 ZAE 142.30 ETE 196.04 ZAC 85.04 ETC 165.89 CLP 13.03

PLANETOCENTRIC CONIC

C3 91.972 VHL 9.590 DLA 16.47 RAL 18.15 RAD 6569.8 VEL 14.605 PTH 2.65 VHP 15.815 DPA -7.50 RAP 352.51 ECC 2.5136
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 17 3125.90 -26.98 105.50 273.98 81.07 6 21 23 2525.9 -27.94 96.97
 90.00 21 52 46 4691.71 15.20 200.14 261.70 65.82 23 10 58 4091.7 11.81 193.10
 100.00 6 59 54 2833.66 -28.79 84.32 274.29 81.58 7 47 8 2233.7 -29.65 75.62
 100.00 23 4 50 4459.18 16.86 182.25 260.91 64.94 24 19 10 3859.2 13.34 175.22
 110.00 8 28 40 2555.92 -33.53 63.98 275.05 82.90 9 11 16 1955.9 -34.14 54.79
 110.00 23 52 34 4309.69 21.15 168.67 258.67 62.50 25 4 23 3709.7 17.30 161.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9417 TRA-2.2854 TC3 -.2166 BAU .2730 SGT 1586.3 SGR 463.8 SG3 77.3 ST 706.5 SR 417.2 SS 634.6
 RDE -.6918 RRA .3031 RC3 -.0485 FAU .01440 RRT .0031 RRF -.0023 RTF -.8411 CRT .7070 CRS .7987 CST .9896
 FDE .6787 FRA 1.2109 FC3 -.1355 BSP 4955 SGB 1652.7 R23 .0006 R13 -.8411 LSA 1001.6 MSA 269.2 SSA 16.2
 BDE 1.1685 BRA 2.3054 BC3 .2220 FSP -199 SG1 1586.3 SG2 463.8 THA .06 EL1 775.2 EL2 268.9 ALF 26.02

LAUNCH DATE DEC 4 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 228.724

RL 147.43 LAL -0.00 LOL 71.91 VL 24.171 GAL 13.90 AZL 86.62 MCA 88.44 SMA 109.12 ECC .41690 INC 3.3766 V1 30.221
 RP 107.57 LAP 3.38 LOP 160.35 VP 35.374 GAP -24.63 AZP 89.91 TAL 158.72 TAP 247.15 RCA 63.63 APO 154.62 V2 35.229
 RC 53.197 GL 8.63 GP -.56 ZAL 48.86 ZAP 11.70 ETS 177.61 ZAE 143.78 ETE 197.22 ZAC 86.89 ETC 166.06 CLP 11.68

PLANETOCENTRIC CONIC

C3 84.822 VHL 9.210 DLA 17.18 RAL 18.54 RAD 6569.7 VEL 14.359 PTH 2.61 VHP 15.172 DPA -6.77 RAP 354.27 ECC 2.3960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 23 57 3134.33 -26.89 106.10 273.28 80.78 6 16 12 2534.3 -27.89 97.58
 90.00 22 1 15 4647.26 13.94 197.48 260.98 65.10 23 18 42 4047.3 10.47 190.52
 100.00 6 55 11 2840.15 -28.72 84.79 273.61 81.34 7 42 31 2240.1 -29.62 76.10
 100.00 23 12 42 4416.68 15.62 179.71 260.16 64.18 24 26 19 3816.7 12.02 172.77
 110.00 8 25 11 2558.55 -33.50 64.18 274.39 82.79 9 7 50 1958.5 -34.14 55.00
 110.00 0 3 7 4271.05 19.92 166.35 257.85 61.63 1 14 19 3671.0 15.97 159.45

DIFFERENTIAL CORRECTIONS

TDE -.9475 TRA-2.2842 TC3 -.2198 BAU .2563
 RDE -.6565 RRA .2821 RC3 -.0525 FAU .01487
 FDE .7087 FRA 1.2522 FC3 -.1518 BSP 5200
 BDE 1.1527 BRA 2.3016 BC3 .2260 FSP -218

MID-COURSE EXECUTION ACCURACY

SGT 1650.4 SGR 458.2 SG3 83.7
 RRT .0089 RRF -.0073 RTF -.8508
 SGB 1712.8 R23 .0009 R13 -.8508
 SG1 1650.4 SG2 458.2 THA .15

ORBIT DETERMINATION ACCURACY

ST 739.4 SR 412.1 SS 661.0
 CRT .7094 CRS .8015 CST .9895
 LSA 1040.1 MSA 267.4 SSA 16.3
 EL1 803.1 EL2 267.4 ALF 24.46

LAUNCH DATE DEC 4 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 235.410

RL 147.43 LAL -0.00 LOL 71.91 VL 24.456 GAL 13.30 AZL 86.61 MCA 91.68 SMA 110.38 ECC .39948 INC 3.3916 V1 30.221
 RP 107.59 LAP 3.39 LOP 163.60 VP 35.563 GAP -23.50 AZP 90.10 TAL 158.14 TAP 249.82 RCA 66.29 APO 154.48 V2 35.222
 RC 51.611 GL 9.16 GP -.60 ZAL 48.37 ZAP 10.35 ETS 177.18 ZAE 145.39 ETE 198.53 ZAC 88.73 ETC 166.20 CLP 10.34

PLANETOCENTRIC CONIC

C3 78.275 VHL 8.847 DLA 17.88 RAL 18.89 RAD 6569.5 VEL 14.129 PTH 2.57 VHP 14.547 DPA -6.04 RAP 356.03 ECC 2.2882
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 14 3143.03 -26.80 106.72 272.50 80.48 6 10 37 2543.0 -27.84 98.21
 90.00 22 9 43 4601.98 12.63 194.80 260.24 64.44 23 26 25 4002.0 9.09 187.91
 100.00 6 50 6 2846.76 -28.65 85.27 272.84 81.09 7 37 33 2246.8 -29.59 76.59
 100.00 23 20 32 4373.48 14.32 177.16 259.39 63.48 24 33 25 3773.5 10.64 170.29
 110.00 8 21 24 2561.10 -33.48 64.38 273.64 82.67 9 4 5 1961.1 -34.13 55.20
 110.00 0 9 39 4231.90 18.63 164.04 257.01 60.81 1 20 11 3631.9 14.60 157.25

DIFFERENTIAL CORRECTIONS

TDE -.9563 TRA-2.2837 TC3 -.2232 BAU .2410
 RDE -.6220 RRA .2616 RC3 -.0568 FAU .01537
 FDE .7418 FRA 1.2962 FC3 -.1700 BSP 5377
 BDE 1.1408 BRA 2.2986 BC3 .2303 FSP -237

MID-COURSE EXECUTION ACCURACY

SGT 1718.8 SGR 451.7 SG3 90.6
 RRT .0161 RRF -.0132 RTF -.8598
 SGB 1777.2 R23 .0017 R13 -.8598
 SG1 1718.8 SG2 451.7 THA .26

ORBIT DETERMINATION ACCURACY

ST 775.3 SR 406.4 SS 689.4
 CRT .7130 CRS .8046 CST .9895
 LSA 1082.1 MSA 264.8 SSA 16.4
 EL1 834.3 EL2 264.8 ALF 22.93

LAUNCH DATE DEC 4 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 242.124

RL 147.43 LAL -0.00 LOL 71.91 VL 24.723 GAL 12.72 AZL 86.59 MCA 94.92 SMA 111.60 ECC .38283 INC 3.4066 V1 30.221
 RP 107.61 LAP 3.39 LOP 166.84 VP 35.740 GAP -22.42 AZP 90.29 TAL 157.61 TAP 252.53 RCA 68.88 APO 154.32 V2 35.215
 RC 50.116 GL 9.70 GP -.63 ZAL 47.93 ZAP 9.00 ETS 176.56 ZAE 147.13 ETE 200.03 ZAC 90.57 ETC 166.34 CLP 8.98

PLANETOCENTRIC CONIC

C3 72.282 VHL 8.502 DLA 18.59 RAL 19.18 RAD 6569.4 VEL 13.915 PTH 2.54 VHP 13.942 DPA -5.30 RAP 357.77 ECC 2.1896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 12 5 3152.12 -26.69 107.37 271.64 80.18 6 4 37 2552.1 -27.78 98.87
 90.00 22 18 12 4555.85 11.26 192.11 259.48 63.85 23 34 8 3955.8 7.65 185.28
 100.00 6 44 39 2853.62 -28.58 85.76 272.00 80.84 7 32 12 2253.6 -29.55 77.09
 100.00 23 28 19 4329.58 12.97 174.60 258.60 62.83 24 40 29 3729.6 9.23 167.81
 110.00 8 17 19 2563.67 -33.46 64.58 272.83 82.56 9 0 3 1963.7 -34.13 55.40
 110.00 0 16 4 4192.29 17.30 161.74 256.16 60.05 1 25 56 3592.3 13.19 155.05

DIFFERENTIAL CORRECTIONS

TDE -.9628 TRA-2.2782 TC3 -.2239 BAU .2243
 RDE -.5882 RRA .2418 RC3 -.0612 FAU .01595
 FDE .7769 FRA 1.3421 FC3 -.1911 BSP 5623
 BDE 1.1283 BRA 2.2910 BC3 .2321 FSP -259

MID-COURSE EXECUTION ACCURACY

SGT 1786.0 SGR 444.5 SG3 98.1
 RRT .0231 RRF -.0192 RTF -.8684
 SGB 1840.4 R23 .0022 R13 -.8684
 SG1 1786.0 SG2 444.3 THA .35

ORBIT DETERMINATION ACCURACY

ST 810.7 SR 399.8 SS 718.9
 CRT .7164 CRS .8079 CST .9894
 LSA 1124.8 MSA 261.6 SSA 16.5
 EL1 865.3 EL2 261.3 ALF 21.52

LAUNCH DATE DEC 4 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 248.862

RL 147.43 LAL -0.00 LOL 71.91 VL 24.972 GAL 12.17 AZL 86.58 MCA 98.16 SMA 112.78 ECC .36693 INC 3.4218 V1 30.221
 RP 107.64 LAP 3.39 LOP 170.09 VP 35.905 GAP -21.38 AZP 90.49 TAL 157.11 TAP 255.27 RCA 71.39 APO 154.16 V2 35.207
 RC 48.721 GL 10.27 GP -.67 ZAL 47.55 ZAP 7.65 ETS 175.66 ZAE 149.01 ETE 201.75 ZAC 92.40 ETC 166.46 CLP 7.62

PLANETOCENTRIC CONIC

C3 66.800 VHL 8.173 DLA 19.29 RAL 19.42 RAD 6569.3 VEL 13.717 PTH 2.51 VHP 13.355 DPA -4.57 RAP 359.51 ECC 2.0994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 28 3161.78 -26.58 108.05 270.71 79.85 5 58 10 2561.8 -27.71 99.57
 90.00 22 26 44 4508.83 9.83 189.39 258.70 63.31 23 41 53 3908.8 6.17 182.62
 100.00 6 38 47 2860.86 -28.50 86.28 271.08 80.58 7 26 28 2260.9 -29.51 77.63
 100.00 23 36 6 4284.98 11.57 172.02 257.79 62.24 24 47 31 3685.0 7.76 165.30
 110.00 8 12 55 2566.37 -33.44 64.78 271.94 82.44 8 55 41 1966.4 -34.12 55.61
 110.00 0 22 24 4152.23 15.93 159.45 255.29 59.35 1 31 36 3552.2 11.74 152.85

DIFFERENTIAL CORRECTIONS

TDE -.9700 TRA-2.2702 TC3 -.2230 BAU .2076
 RDE -.5553 RRA .2227 RC3 -.0657 FAU .01659
 FDE .8152 FRA 1.3905 FC3 -.2151 BSP 5871
 BDE 1.1177 BRA 2.2811 BC3 .2325 FSP -284

MID-COURSE EXECUTION ACCURACY

SGT 1854.3 SGR 436.4 SG3 106.4
 RRT .0308 RRF -.0258 RTF -.8766
 SGB 1905.0 R23 .0028 R13 -.8766
 SG1 1854.4 SG2 436.1 THA .44

ORBIT DETERMINATION ACCURACY

ST 847.6 SR 392.4 SS 750.2
 CRT .7205 CRS .8115 CST .9894
 LSA 1169.8 MSA 257.8 SSA 16.5
 EL1 898.0 EL2 256.9 ALF 20.17

LAUNCH DATE DEC 4 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 255.619

RL 147.43 LAL -.00 LOL 71.91 VL 25.206 GAL 11.64 AZL 86.56 HCA 101.40 SMA 113.91 ECC .35179 INC 3.4372 VI 30.221
 RP 107.66 LAP 3.37 LOP 173.33 VP 36.060 GAP -20.37 AZP 90.68 TAL 156.64 TAP 258.04 RCA 73.84 APO 153.98 V2 35.198
 RC 47.437 GL 10.85 GP -.72 ZAL 47.22 ZAP 6.29 ETS 174.26 ZAE 151.00 ETE 203.75 ZAC 94.22 ETC 166.56 CLP 6.25

PLANETOCENTRIC CONIC

C3 61.787 VHL 7.860 DLA 20.00 RAL 19.61 RAD 6569.2 VEL 13.533 PTH 2.47 VHP 12.786 DPA -3.85 RAP 1.24 ECC 2.0169
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 21 3172.21 -26.45 108.79 269.71 79.50 5 51 13 2572.2 -27.63 100.32
 90.00 22 35 21 4460.88 8.36 186.64 257.92 62.85 23 49 42 3860.9 4.65 179.92
 100.00 6 32 29 2868.64 -28.41 86.85 270.10 80.30 7 20 18 2268.6 -29.46 78.20
 100.00 23 43 54 4239.67 10.12 169.44 256.98 61.72 24 54 34 3639.7 6.26 162.78
 110.00 8 8 10 2569.30 -33.41 65.01 270.99 82.31 8 50 59 1969.3 -34.11 55.84
 110.00 0 28 39 4111.77 14.51 157.17 254.41 58.70 1 37 10 3511.8 10.26 150.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9780 TRA-2.2603 TC3 -.2204 BAU .1911 SGT 1924.1 SGR 427.4 SG3 115.5 ST 886.0 SR 384.3 SS 783.5
 RDE -.5231 RRA .2043 RC3 -.0703 FAU .01730 RRT .0391 RRF -.0329 RTF -.8843 CRT .7250 CRS .8154 CST .9894
 FDE .8571 FRA 1.4420 FC3 -.2425 BSP 6119 SGB 1971.0 R23 .0035 R13 -.8843 LSA 1217.4 MSA 253.3 SSA 16.5
 BDE 1.1091 BRA 2.2696 BC3 .2314 FSP -311 SG1 1924.2 SG2 427.1 THA .52 EL1 932.4 EL2 251.5 ALF 18.88

LAUNCH DATE DEC 4 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 262.393

RL 147.43 LAL -.00 LOL 71.91 VL 25.425 GAL 11.14 AZL 86.55 HCA 104.63 SMA 115.00 ECC .33738 INC 3.4530 VI 30.221
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.204 GAP -19.39 AZP 90.87 TAL 156.21 TAP 260.85 RCA 76.20 APO 153.80 V2 35.189
 RC 46.274 GL 11.46 GP -.77 ZAL 46.95 ZAP 4.93 ETS 171.96 ZAE 153.11 ETE 206.11 ZAC 96.03 ETC 166.66 CLP 4.87

PLANETOCENTRIC CONIC

C3 57.208 VHL 7.564 DLA 20.70 RAL 19.74 RAD 6569.0 VEL 13.363 PTH 2.44 VHP 12.235 DPA -3.13 RAP 2.95 ECC 1.9415
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 41 3183.60 -26.31 109.59 268.64 79.13 5 43 45 2583.6 -27.54 101.14
 90.00 22 44 6 4411.93 6.83 183.86 257.12 62.45 23 57 38 3811.9 3.08 177.18
 100.00 6 25 44 2877.13 -28.31 87.46 269.05 79.99 7 13 41 2277.1 -29.40 78.83
 100.00 23 51 45 4193.63 8.62 166.84 256.15 61.27 25 1 38 3593.6 4.72 160.23
 110.00 8 3 5 2572.58 -33.38 65.26 269.98 82.16 8 45 57 1972.6 -34.10 56.09
 110.00 0 34 49 4070.95 13.05 154.91 253.52 58.12 1 42 40 3470.9 8.75 148.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9863 TRA-2.2478 TC3 -.2158 BAU .1747 SGT 1994.6 SGR 417.7 SG3 125.5 ST 925.5 SR 375.3 SS 818.9
 RDE -.4918 RRA .1868 RC3 -.0749 FAU .01809 RRT .0480 RRF -.0405 RTF -.8916 CRT .7301 CRS .8194 CST .9895
 FDE .9028 FRA 1.4967 FC3 -.2738 BSP 6363 SGB 2037.9 R23 .0043 R13 -.8916 LSA 1267.3 MSA 248.1 SSA 16.6
 BDE 1.1021 BRA 2.2556 BC3 .2284 FSP -340 SG1 1994.7 SG2 417.2 THA .60 EL1 968.2 EL2 245.2 ALF 17.66

LAUNCH DATE DEC 4 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 269.178

RL 147.43 LAL -.00 LOL 71.91 VL 25.629 GAL 10.65 AZL 86.53 HCA 107.87 SMA 116.05 ECC .32370 INC 3.4693 VI 30.221
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.338 GAP -18.45 AZP 91.07 TAL 155.82 TAP 263.69 RCA 78.49 APO 153.62 V2 35.179
 RC 45.244 GL 12.08 GP -.82 ZAL 46.74 ZAP 3.57 ETS 167.68 ZAE 155.30 ETE 208.94 ZAC 97.83 ETC 166.74 CLP 3.47

PLANETOCENTRIC CONIC

C3 53.027 VHL 7.282 DLA 21.41 RAL 19.83 RAD 6568.9 VEL 13.206 PTH 2.41 VHP 11.700 DPA -2.42 RAP 4.65 ECC 1.8727
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 42 26 3196.21 -26.14 110.48 267.50 78.71 5 35 42 2596.2 -27.44 102.05
 90.00 22 53 2 4361.91 5.24 181.03 256.33 62.13 24 5 44 3761.9 1.47 174.38
 100.00 6 18 29 2886.50 -28.20 88.14 267.95 79.65 7 6 35 2286.5 -29.34 79.52
 100.00 0 3 36 4146.85 7.08 164.22 255.32 60.88 1 12 43 3546.8 3.15 157.65
 110.00 7 57 37 2576.32 -33.34 65.54 268.91 82.00 8 40 34 1976.3 -34.09 56.38
 110.00 0 40 57 4029.79 11.56 152.65 252.63 57.61 1 48 7 3429.8 7.21 146.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9951 TRA-2.2328 TC3 -.2085 BAU .1582 SGT 2065.5 SGR 407.2 SG3 136.4 ST 966.2 SR 365.5 SS 856.6
 RDE -.4613 RRA .1700 RC3 -.0795 FAU .01897 RRT .0573 RRF -.0484 RTF -.8985 CRT .7356 CRS .8238 CST .9896
 FDE .9531 FRA 1.5551 FC3 -.3097 BSP 6616 SGB 2105.2 R23 .0052 R13 -.8985 LSA 1319.8 MSA 242.5 SSA 16.5
 BDE 1.0968 BRA 2.2392 BC3 .2232 FSP -373 SG1 2065.6 SG2 406.5 THA .67 EL1 1005.3 EL2 238.0 ALF 16.50

LAUNCH DATE DEC 4 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 275.972

RL 147.43 LAL -.00 LOL 71.91 VL 25.819 GAL 10.19 AZL 86.51 HCA 111.10 SMA 117.05 ECC .31072 INC 3.4861 VI 30.221
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.462 GAP -17.54 AZP 91.26 TAL 155.47 TAP 266.57 RCA 80.68 APO 153.42 V2 35.169
 RC 44.357 GL 12.72 GP -.88 ZAL 46.58 ZAP 2.24 ETS 157.81 ZAE 157.56 ETE 212.38 ZAC 99.60 ETC 166.81 CLP 2.06

PLANETOCENTRIC CONIC

C3 49.213 VHL 7.015 DLA 22.12 RAL 19.86 RAD 6568.8 VEL 13.060 PTH 2.38 VHP 11.183 DPA -1.73 RAP 6.33 ECC 1.8099
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 33 30 3210.32 -25.95 111.47 266.31 78.25 5 27 0 2610.3 -27.31 103.06
 90.00 23 2 13 4310.67 3.60 178.16 255.54 61.89 24 14 4 3710.7 -1.18 171.53
 100.00 6 10 41 2896.96 -28.07 88.89 266.78 79.28 6 58 58 2297.0 -29.26 80.29
 100.00 0 11 39 4099.26 5.50 161.58 254.50 60.57 1 19 58 3499.3 1.54 155.03
 110.00 7 51 47 2580.65 -33.30 65.88 267.80 81.80 8 34 48 1980.6 -34.08 56.72
 110.00 0 47 2 3988.33 10.04 150.40 251.73 57.15 1 53 31 3388.3 5.64 144.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0044 TRA-2.2159 TC3 -.1989 BAU .1421 SGT 2137.1 SGR 395.9 SG3 148.5 ST 1008.2 SR 355.0 SS 896.9
 RDE -.4317 RRA .1541 RC3 -.0841 FAU .01994 RRT .0670 RRF -.0567 RTF -.9050 CRT .7416 CRS .8283 CST .9898
 FDE 1.0084 FRA 1.6176 FC3 -.3508 BSP 6862 SGB 2173.5 R23 .0061 R13 -.9050 LSA 1375.1 MSA 236.3 SSA 16.5
 BDE 1.0933 BRA 2.2212 BC3 .2159 FSP -409 SG1 2137.3 SG2 394.9 THA .74 EL1 1043.9 EL2 230.0 ALF 15.40

LAUNCH DATE DEC 4 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 282.772

RL 147.43 LAL -0.00 LOL 71.91 VL 25.997 GAL 9.76 AZL 86.50 HCA 114.33 SMA 118.01 ECC .29843 INC 3.5037 V1 30.221
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.578 GAP -16.66 AZP 91.44 TAL 155.16 TAP 269.49 RCA 82.79 APO 153.23 V2 35.158
 RC 43.625 GL 13.39 GP -0.96 ZAL 46.47 ZAP 1.14 ETS 124.02 ZAE 159.83 ETE 216.65 ZAC 101.35 ETC 166.87 CLP .62

PLANETOCENTRIC CONIC

C3 45.737 VHL 6.763 DLA 22.83 RAL 19.84 RAD 6568.7 VEL 12.927 PTH 2.36 VHP 10.682 DPA -1.05 RAP 7.99 ECC 1.7527
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 23 49 3226.27 -25.72 112.58 265.06 77.74 5 17 35 2626.3 -27.16 104.20
 90.00 23 11 44 4258.03 1.91 175.22 254.77 61.74 24 22 42 3658.0 -1.88 168.59
 100.00 6 2 18 2908.73 -27.92 89.73 265.57 78.86 6 50 46 2308.7 -29.17 81.15
 100.00 0 19 53 4050.80 3.87 158.90 253.68 60.34 1 27 23 3450.8 -.11 152.37
 110.00 7 45 33 2585.69 -33.25 66.26 266.64 81.58 8 28 39 1985.7 -34.06 57.11
 110.00 0 53 7 3946.61 8.49 148.17 250.84 56.76 1 58 53 3346.6 4.06 141.88

DIFFERENTIAL CORRECTIONS

TDE-1.0146 TRA-2.1954 TC3 -.1872 BAU .1266
 RDE -.4030 RRA .1392 RC3 -.0885 FAU .02102
 FDE 1.0697 FRA 1.6849 FC3 -.3979 BSP 7083
 BDE 1.0917 BRA 2.1998 BC3 .2071 FSP -449

MID-COURSE EXECUTION ACCURACY

SGT 2208.1 SGR 383.8 SG3 161.9
 RRT .0774 RRF -.0651 RTF -.9110
 SGB 2241.2 R23 .0076 R13 -.9109
 SG1 2208.3 SG2 382.6 THA .79

ORBIT DETERMINATION ACCURACY

ST 1051.4 SR 343.6 SS 940.1
 CRT .7481 CRS .8330 CST .9900
 LSA 1433.3 MSA 229.6 SSA 16.5
 EL1 1083.8 EL2 221.2 ALF 14.35

LAUNCH DATE DEC 4 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 289.573

RL 147.43 LAL -0.00 LOL 71.91 VL 26.162 GAL 9.34 AZL 86.48 HCA 117.56 SMA 118.92 ECC .28681 INC 3.5222 V1 30.221
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.685 GAP -15.81 AZP 91.63 TAL 154.89 TAP 272.44 RCA 84.81 APO 153.03 V2 35.147
 RC 43.055 GL 14.07 GP -1.04 ZAL 46.43 ZAP 1.34 ETS 51.97 ZAE 162.06 ETE 222.03 ZAC 103.08 ETC 166.92 CLP -.85

PLANETOCENTRIC CONIC

C3 42.571 VHL 6.525 DLA 23.54 RAL 19.77 RAD 6568.6 VEL 12.804 PTH 2.33 VHP 10.197 DPA -.40 RAP 9.63 ECC 1.7006
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 16 3244.49 -25.45 113.85 263.76 77.16 5 7 20 2644.5 -26.97 105.51
 90.00 23 21 43 4203.72 .16 172.19 254.01 61.68 24 31 46 3603.7 -3.63 165.55
 100.00 5 53 15 2922.08 -27.74 90.68 264.32 78.39 6 41 57 2322.1 -29.06 82.12
 100.00 0 28 20 4001.36 2.20 156.18 252.88 60.18 1 35 1 3401.4 -1.78 149.66
 110.00 7 38 54 2591.57 -33.19 66.71 265.45 81.32 8 22 5 1991.6 -34.04 57.57
 110.00 0 59 11 3904.63 6.92 145.93 249.96 56.44 2 4 15 3304.6 2.46 139.69

DIFFERENTIAL CORRECTIONS

TDE-1.0221 TRA-2.1709 TC3 -.1687 BAU .1096
 RDE -.3750 RRA .1253 RC3 -.0928 FAU .02226
 FDE 1.1369 FRA 1.7567 FC3 -.4527 BSP 7431
 BDE 1.0887 BRA 2.1745 BC3 .1926 FSP -495

MID-COURSE EXECUTION ACCURACY

SGT 2275.5 SGR 370.8 SG3 176.6
 RRT .0861 RRF -.0729 RTF -.9171
 SGB 2305.6 R23 .0082 R13 -.9170
 SG1 2275.8 SG2 369.4 THA .83

ORBIT DETERMINATION ACCURACY

ST 1093.1 SR 331.3 SS 985.8
 CRT .7543 CRS .8377 CST .9901
 LSA 1492.1 MSA 222.9 SSA 16.3
 EL1 1122.4 EL2 211.8 ALF 13.36

LAUNCH DATE DEC 4 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 296.375

RL 147.43 LAL -0.00 LOL 71.91 VL 26.316 GAL 8.94 AZL 86.46 HCA 120.78 SMA 119.79 ECC .27585 INC 3.5417 V1 30.221
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.784 GAP -14.98 AZP 91.81 TAL 154.65 TAP 275.44 RCA 86.75 APO 152.83 V2 35.135
 RC 42.657 GL 14.77 GP -1.13 ZAL 46.43 ZAP 2.60 ETS 27.06 ZAE 164.15 ETE 228.88 ZAC 104.78 ETC 166.96 CLP -2.35

PLANETOCENTRIC CONIC

C3 39.693 VHL 6.300 DLA 24.25 RAL 19.64 RAD 6568.5 VEL 12.691 PTH 2.31 VHP 9.728 DPA .24 RAP 11.24 ECC 1.6532
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 1 41 3265.56 -25.13 115.30 262.41 76.50 4 56 7 2665.6 -26.74 107.00
 90.00 23 32 18 4147.31 -1.66 169.04 253.28 61.73 24 41 25 3547.3 -5.43 162.39
 100.00 5 43 29 2937.34 -27.53 91.76 263.01 77.86 6 32 27 2337.3 -28.92 83.24
 100.00 0 37 7 3950.77 .49 153.41 252.09 60.11 1 42 58 3350.8 -3.49 146.88
 110.00 7 31 48 2598.45 -33.12 67.23 264.22 81.02 8 15 7 1998.4 -34.01 58.11
 110.00 1 5 17 3862.42 5.32 143.71 249.08 56.18 2 9 39 3262.4 .85 137.48

DIFFERENTIAL CORRECTIONS

TDE-1.0337 TRA-2.1467 TC3 -.1502 BAU .0949
 RDE -.3479 RRA .1124 RC3 -.0969 FAU .02360
 FDE 1.2126 FRA 1.8352 FC3 -.5146 BSP 7671
 BDE 1.0906 BRA 2.1496 BC3 .1788 FSP -544

MID-COURSE EXECUTION ACCURACY

SGT 2346.1 SGR 357.2 SG3 193.0
 RRT .0961 RRF -.0809 RTF -.9225
 SGB 2373.1 R23 .0099 R13 -.9225
 SG1 2346.4 SG2 355.5 THA .86

ORBIT DETERMINATION ACCURACY

ST 1138.6 SR 318.2 SS 1035.6
 CRT .7614 CRS .8427 CST .9904
 LSA 1556.7 MSA 215.6 SSA 16.2
 EL1 1164.9 EL2 201.6 ALF 12.39

LAUNCH DATE DEC 4 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 303.173

RL 147.43 LAL -0.00 LOL 71.91 VL 26.459 GAL 8.56 AZL 86.44 HCA 124.01 SMA 120.61 ECC .26552 INC 3.5627 V1 30.221
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.875 GAP -14.18 AZP 91.99 TAL 154.45 TAP 278.46 RCA 88.59 APO 152.64 V2 35.123
 RC 42.436 GL 15.49 GP -1.23 ZAL 46.49 ZAP 4.07 ETS 19.10 ZAE 166.01 ETE 237.61 ZAC 106.44 ETC 167.00 CLP -3.88

PLANETOCENTRIC CONIC

C3 37.079 VHL 6.089 DLA 24.96 RAL 19.47 RAD 6568.4 VEL 12.588 PTH 2.28 VHP 9.274 DPA .84 RAP 12.82 ECC 1.6102
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 48 51 3290.28 -24.72 117.00 260.99 75.74 4 43 42 2690.3 -26.44 108.75
 90.00 23 43 44 4088.16 -3.57 165.74 252.60 61.89 24 51 52 3488.2 -7.30 159.05
 100.00 5 32 53 2954.89 -27.27 93.00 261.67 77.25 6 22 8 2354.9 -28.75 84.51
 100.00 0 46 19 3898.78 -1.28 150.55 251.33 60.13 1 51 18 3298.8 -5.24 144.01
 110.00 7 24 15 2606.47 -33.03 67.84 262.97 80.67 8 7 41 2006.5 -33.97 58.73
 110.00 1 11 27 3819.97 3.71 141.48 248.22 55.99 2 15 7 3220.0 -.78 135.27

DIFFERENTIAL CORRECTIONS

TDE-1.0457 TRA-2.1201 TC3 -.1288 BAU .0811
 RDE -.3215 RRA .1006 RC3 -.1008 FAU .02508
 FDE 1.2973 FRA 1.9205 FC3 -.5857 BSP 7903
 BDE 1.0940 BRA 2.1225 BC3 .1636 FSP -599

MID-COURSE EXECUTION ACCURACY

SGT 2415.6 SGR 342.8 SG3 211.1
 RRT .1053 RRF -.0879 RTF -.9275
 SGB 2439.8 R23 .0118 R13 -.9275
 SG1 2415.8 SG2 340.8 THA .87

ORBIT DETERMINATION ACCURACY

ST 1184.9 SR 304.2 SS 1089.3
 CRT .7686 CRS .8476 CST .9906
 LSA 1624.6 MSA 208.2 SSA 16.0
 EL1 1208.3 EL2 190.8 ALF 11.45

LAUNCH DATE DEC 4 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC
 RL 147.43 LAL -.00 LOL 71.91 VL 26.592 GAL 8.21 AZL 86.41 HCA 127.23 SMA 121.39 ECC .25580 INC 3.5853 V1 30.221
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.959 GAP -13.41 AZP 92.17 TAL 154.29 TAP 281.52 RCA 90.34 APO 152.44 V2 35.111
 RC 42.394 GL 16.22 GP -1.36 ZAL 46.60 ZAP 5.62 ETS 15.48 ZAE 167.48 ETE 248.52 ZAC 108.06 ETC 167.03 CLP -5.46

DISTANCE 309.966

PLANETOCENTRIC CONIC
 C3 34.707 VHL 5.891 DLA 25.68 RAL 19.24 RAD 6568.4 VEL 12.493 PTH 2.26 VHP 8.836 DPA 1.40 RAP 14.37 ECC 1.5712
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 34 25 3319.88 -24.21 119.02 259.51 74.85 4 29 45 2719.9 -26.06 110.84
 90.00 0 0 19 4025.17 -5.58 162.20 251.97 62.19 1 7 24 3425.2 -9.26 155.45
 100.00 5 21 18 2975.28 -26.95 94.44 260.29 76.56 6 10 53 2375.3 -28.53 85.99
 100.00 0 56 7 3845.00 -3.10 147.60 250.60 60.25 2 0 12 3245.0 -7.03 141.02
 110.00 7 16 12 2615.80 -32.93 68.55 261.70 80.26 7 59 48 2015.8 -33.92 59.45
 110.00 1 17 42 3777.24 2.08 139.24 247.38 55.87 2 20 40 3177.2 -2.41 133.04

DIFFERENTIAL CORRECTIONS
 TDE-1.0585 TRA-2.0914 TC3 -.1046 BAU .0686
 RDE -.2958 RRA .0899 RC3 -.1044 FAU .02673
 FDE 1.3925 FRA 2.0137 FC3 -.6668 BSP 8117
 BDE 1.0990 BRA 2.0934 BC3 .1478 FSP -660

MID-COURSE EXECUTION ACCURACY
 SGT 2483.6 SGR 327.6 SG3 231.4
 RRT .1134 RRF -.0934 RTF -.9323
 SGB 2505.2 R23 .0142 R13 -.9323
 SGI 2483.9 SG2 325.4 THA .87

ORBIT DETERMINATION ACCURACY
 ST 1232.1 SR 289.1 SS 1147.5
 CRT .7759 CRS .8524 CST .9910
 LSA 1696.5 MSA 200.6 SSA 15.8
 EL1 1252.8 EL2 179.4 ALF 10.54

LAUNCH DATE DEC 4 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC
 RL 147.43 LAL -.00 LOL 71.91 VL 26.715 GAL 7.87 AZL 86.39 HCA 130.45 SMA 122.12 ECC .24669 INC 3.6098 V1 30.221
 RP 107.97 LAP 2.75 LOP 202.42 VP 37.036 GAP -12.66 AZP 92.34 TAL 154.17 TAP 284.62 RCA 92.00 APO 152.25 V2 35.099
 RC 42.534 GL 16.98 GP -1.50 ZAL 46.76 ZAP 7.23 ETS 13.54 ZAE 168.42 ETE 261.39 ZAC 109.65 ETC 167.07 CLP -7.08

DISTANCE 316.751

PLANETOCENTRIC CONIC
 C3 32.560 VHL 5.706 DLA 26.39 RAL 18.97 RAD 6568.3 VEL 12.407 PTH 2.24 VHP 8.412 DPA 1.93 RAP 15.89 ECC 1.5359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 43 3356.47 -23.54 121.49 257.95 73.79 4 13 39 2756.5 -25.54 113.39
 90.00 0 14 50 3956.37 -7.74 158.31 251.43 62.68 1 20 46 3356.4 -11.35 151.48
 100.00 5 8 31 2999.25 -26.56 96.11 258.86 75.76 5 58 31 2399.2 -28.26 87.72
 100.00 1 6 42 3788.82 -4.99 144.50 249.93 60.49 2 9 51 3188.8 -8.88 137.88
 110.00 7 7 36 2626.64 -32.80 69.37 260.41 79.79 7 51 23 2026.6 -33.86 60.29
 110.00 1 24 7 3734.19 .44 137.00 246.56 55.82 2 26 21 3134.2 -4.05 130.79

DIFFERENTIAL CORRECTIONS
 TDE-1.0712 TRA-2.0598 TC3 -.0765 BAU .0576
 RDE -.2705 RRA .0806 RC3 -.1078 FAU .02858
 FDE 1.4993 FRA 2.1153 FC3 -.7600 BSP 8342
 BDE 1.1048 BRA 2.0614 BC3 .1322 FSP -728

MID-COURSE EXECUTION ACCURACY
 SGT 2548.7 SGR 311.6 SG3 254.0
 RRT .1188 RRF -.0961 RTF -.9368
 SGB 2567.7 R23 .0169 R13 -.9368
 SGI 2549.0 SG2 309.3 THA .84

ORBIT DETERMINATION ACCURACY
 ST 1279.4 SR 273.0 SS 1210.3
 CRT .7828 CRS .8569 CST .9913
 LSA 1771.6 MSA 193.1 SSA 15.5
 EL1 1297.4 EL2 167.5 ALF 9.65

LAUNCH DATE DEC 4 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC
 RL 147.43 LAL -.00 LOL 71.91 VL 26.829 GAL 7.55 AZL 86.36 HCA 133.67 SMA 122.81 ECC .23815 INC 3.6368 V1 30.221
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.106 GAP -11.94 AZP 92.51 TAL 154.08 TAP 287.75 RCA 93.57 APO 152.06 V2 35.086
 RC 42.853 GL 17.75 GP -1.66 ZAL 46.97 ZAP 8.91 ETS 12.41 ZAE 168.72 ETE 275.20 ZAC 111.18 ETC 167.11 CLP -8.75

DISTANCE 323.526

PLANETOCENTRIC CONIC
 C3 30.620 VHL 5.533 DLA 27.11 RAL 18.65 RAD 6568.2 VEL 12.329 PTH 2.22 VHP 8.002 DPA 2.41 RAP 17.36 ECC 1.5039
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 57 25 3404.44 -22.59 124.68 256.25 72.46 3 54 9 2804.4 -24.78 116.70
 90.00 0 32 34 3877.49 -10.18 153.79 251.03 63.43 1 37 11 3277.5 -13.67 146.85
 100.00 4 54 12 3027.93 -26.07 98.10 257.37 74.83 5 44 40 2427.9 -27.90 89.77
 100.00 1 18 27 3729.23 -6.98 141.19 249.32 60.86 2 20 37 3129.2 -10.81 134.50
 110.00 6 58 25 2639.23 -32.65 70.32 259.11 79.25 7 42 24 2039.2 -33.78 61.27
 110.00 1 30 44 3690.69 -1.23 134.73 245.77 55.84 2 32 14 3090.7 -5.70 128.50

DIFFERENTIAL CORRECTIONS
 TDE-1.0817 TRA-2.0230 TC3 -.0421 BAU .0485
 RDE -.2456 RRA .0727 RC3 -.1108 FAU .03072
 FDE 1.6184 FRA 2.2250 FC3 -.8687 BSP 8621
 BDE 1.1092 BRA 2.0243 BC3 .1185 FSP -808

MID-COURSE EXECUTION ACCURACY
 SGT 2606.6 SGR 294.7 SG3 279.0
 RRT .1192 RRF -.0939 RTF -.9411
 SGB 2623.2 R23 .0198 R13 -.9411
 SGI 2606.9 SG2 292.6 THA .78

ORBIT DETERMINATION ACCURACY
 ST 1324.0 SR 255.6 SS 1277.1
 CRT .7888 CRS .8607 CST .9916
 LSA 1847.8 MSA 185.8 SSA 15.1
 EL1 1339.4 EL2 155.3 ALF 8.78

LAUNCH DATE DEC 4 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC
 RL 147.43 LAL -.00 LOL 71.91 VL 26.935 GAL 7.24 AZL 86.33 HCA 136.88 SMA 123.46 ECC .23016 INC 3.6669 V1 30.221
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.171 GAP -11.24 AZP 92.68 TAL 154.02 TAP 290.91 RCA 95.05 APO 151.88 V2 35.073
 RC 43.347 GL 18.54 GP -1.86 ZAL 47.22 ZAP 10.65 ETS 11.74 ZAE 168.42 ETE 288.34 ZAC 112.66 ETC 167.15 CLP -10.49

DISTANCE 330.291

PLANETOCENTRIC CONIC
 C3 28.871 VHL 5.373 DLA 27.84 RAL 18.28 RAD 6568.2 VEL 12.257 PTH 2.21 VHP 7.607 DPA 2.83 RAP 18.79 ECC 1.4751
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 29 22 3477.16 -21.02 129.44 254.28 70.58 3 27 19 2877.2 -23.48 121.63
 90.00 0 57 40 3775.30 -13.22 147.83 250.93 64.73 2 0 35 3175.3 -16.52 140.70
 100.00 4 37 45 3063.28 -25.41 100.52 255.82 73.71 5 28 48 2463.3 -27.40 92.29
 100.00 1 31 58 3664.42 -9.11 137.56 248.80 61.41 2 33 2 3064.4 -12.86 130.78
 110.00 6 48 34 2653.87 -32.45 71.42 257.80 78.63 7 32 48 2053.9 -33.68 62.40
 110.00 1 37 39 3646.59 -2.91 132.43 245.01 55.93 2 38 25 3046.6 -7.36 126.17

DIFFERENTIAL CORRECTIONS
 TDE-1.0954 TRA-1.9874 TC3 -.0094 BAU .0441
 RDE -.2209 RRA .0663 RC3 -.1138 FAU .03302
 FDE 1.7552 FRA 2.3479 FC3 -.9901 BSP 8799
 BDE 1.1175 BRA 1.9885 BC3 .1142 FSP -892

MID-COURSE EXECUTION ACCURACY
 SGT 2666.0 SGR 277.1 SG3 307.3
 RRT .1149 RRF -.0858 RTF -.9449
 SGB 2680.4 R23 .0241 R13 -.9449
 SGI 2666.2 SG2 275.3 THA .69

ORBIT DETERMINATION ACCURACY
 ST 1371.6 SR 236.8 SS 1351.1
 CRT .7941 CRS .8637 CST .9920
 LSA 1931.5 MSA 178.6 SSA 14.6
 EL1 1384.6 EL2 142.6 ALF 7.89

LAUNCH DATE DEC 4 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 337.041

RL 147.43 LAL -0.00 LOL 71.91 VL 27.032 GAL 6.96 AZL 86.30 HCA 140.09 SMA 124.07 ECC .22272 INC 3.7008 V1 30.221
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.229 GAP -10.56 AZP 92.84 TAL 154.00 TAP 294.09 RCA 96.44 APO 151.70 V2 35.060
 RC 44.011 GL 19.36 GP -2.09 ZAL 47.52 ZAP 12.48 ETS 11.39 ZAE 167.63 ETE 299.55 ZAC 114.07 ETC 167.22 CLP -12.30

PLANETOCENTRIC CONIC

C3 27.300 VHL 5.225 DLA 28.56 RAL 17.86 RAD 6568.1 VEL 12.193 PTH 2.19 VHP 7.226 DPA 3.19 RAP 20.17 ECC 1.4493
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.09 1 9 13 3718.01 -17.88 145.79 251.55 67.35 2 11 11 3118.0 -20.80 138.31
 93.91 2 14 30 3506.55 -17.86 130.30 251.54 67.34 3 12 57 2906.6 -20.78 122.82
 100.00 4 17 56 3109.23 -24.50 103.63 254.15 72.32 5 9 45 2509.2 -26.69 95.51
 100.00 1 48 29 3590.56 -11.48 133.37 248.44 62.21 2 48 19 2990.6 -15.11 126.46
 110.00 6 37 56 2670.97 -32.22 72.70 256.48 77.90 7 22 27 2071.0 -33.55 63.72
 110.00 1 44 58 3601.59 -4.63 130.07 244.30 56.09 2 45 0 3001.6 -9.05 123.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.1071 TRA-1.9468 TC3 .0288 BAU .0438 SGT 2717.1 SGR 258.8 SG3 338.9 ST 1416.2 SR 216.2 SS 1430.6
 ROE -.1960 RRA .0617 RC3 -.1166 FAU .03565 RRT .0997 RRF -.0665 RTF -.9486 CRT .7972 CRS .8649 CST .9923
 FDE 1.9097 FRA 2.4817 FC3-1.1307 BSP 9021 SGB 2729.4 R23 .0290 R13 -.9486 LSA 2017.2 MSA 171.9 SSA 14.0
 BDE 1.1243 BRA 1.9477 BC3 .1201 FSP -990 SG1 2717.2 SG2 257.5 THA .55 EL1 1426.7 EL2 129.5 ALF 7.00

LAUNCH DATE DEC 4 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 343.778

RL 147.43 LAL -0.00 LOL 71.91 VL 27.122 GAL 6.69 AZL 86.26 HCA 143.30 SMA 124.64 ECC .21579 INC 3.7395 V1 30.221
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.282 GAP -9.90 AZP 93.00 TAL 154.00 TAP 297.30 RCA 97.74 APO 151.53 V2 35.047
 RC 44.838 GL 20.20 GP -2.38 ZAL 47.86 ZAP 14.38 ETS 11.25 ZAE 166.55 ETE 308.40 ZAC 115.42 ETC 167.31 CLP -14.19

PLANETOCENTRIC CONIC

C3 25.896 VHL 5.089 DLA 29.30 RAL 17.40 RAD 6568.0 VEL 12.136 PTH 2.18 VHP 6.859 DPA 3.46 RAP 21.50 ECC 1.4262
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.13 0 35 20 3808.26 -18.67 152.78 250.42 66.99 1 38 48 3208.3 -21.62 145.27
 97.87 2 44 43 3390.10 -18.65 122.08 250.41 66.98 3 41 13 2790.1 -21.61 114.58
 100.00 3 51 15 3176.94 -23.03 108.12 252.23 70.39 4 44 12 2576.9 -25.49 100.19
 100.00 2 11 29 3496.65 -14.40 127.92 248.37 63.52 3 9 46 2896.7 -17.84 120.82
 110.00 6 26 21 2691.10 -31.92 74.19 255.16 77.07 7 11 12 2091.1 -33.37 65.26
 110.00 1 52 53 3555.25 -6.38 127.63 243.65 56.35 2 52 8 2955.3 -10.76 121.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.1163 TRA-1.9014 TC3 .0720 BAU .0483 SGT 2759.0 SGR 239.7 SG3 374.1 ST 1456.8 SR 193.4 SS 1515.9
 ROE -.1705 RRA .0592 RC3 -.1195 FAU .03869 RRT .0678 RRF -.0301 RTF -.9521 CRT .7966 CRS .8632 CST .9926
 FDE 2.0839 FRA 2.6273 FC3-1.2935 BSP 9266 SGB 2769.4 R23 .0350 R13 -.9521 LSA 2104.7 MSA 165.8 SSA 13.3
 BDE 1.1293 BRA 1.9023 BC3 .1395 FSP -1104 SG1 2759.0 SG2 239.2 THA .34 EL1 1465.0 EL2 116.2 ALF 6.07

LAUNCH DATE DEC 4 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 350.497

RL 147.43 LAL -0.00 LOL 71.91 VL 27.205 GAL 6.44 AZL 86.22 HCA 146.51 SMA 125.16 ECC .20936 INC 3.7845 V1 30.221
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.329 GAP -9.26 AZP 93.16 TAL 154.03 TAP 300.54 RCA 98.96 APO 151.37 V2 35.033
 RC 45.818 GL 21.06 GP -2.72 ZAL 48.25 ZAP 16.39 ETS 11.30 ZAE 165.32 ETE 315.04 ZAC 116.70 ETC 167.43 CLP -16.17

PLANETOCENTRIC CONIC

C3 24.646 VHL 4.964 DLA 30.05 RAL 16.90 RAD 6568.0 VEL 12.084 PTH 2.16 VHP 6.506 DPA 3.64 RAP 22.76 ECC 1.4056
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.48 0 12 49 3861.62 -19.45 157.09 249.31 66.62 1 17 11 3261.6 -22.44 149.56
 100.52 3 3 11 3312.35 -19.43 116.67 249.30 66.61 3 58 23 2712.4 -22.43 109.14
 79.48 0 12 49 3861.62 -19.45 157.09 249.31 66.62 1 17 11 3261.6 -22.44 149.56
 100.52 3 3 11 3312.35 -19.43 116.67 249.30 66.61 3 58 23 2712.4 -22.43 109.14
 110.00 6 13 32 2715.12 -31.54 75.96 253.82 76.08 6 58 47 2115.1 -33.13 67.10
 110.00 2 1 38 3506.85 -8.20 125.06 243.07 56.70 3 0 5 2906.9 -12.52 118.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.1182 TRA-1.8459 TC3 .1276 BAU .0583 SGT 2782.0 SGR 220.5 SG3 413.0 ST 1486.8 SR 167.7 SS 1604.8
 ROE -.1438 RRA .0593 RC3 -.1226 FAU .04235 RRT .0069 RRF -.0348 RTF -.9557 CRT .7887 CRS .8559 CST .9928
 FDE 2.2777 FRA 2.7817 FC3-1.4876 BSP 9658 SGB 2790.7 R23 .0414 R13 -.9557 LSA 2188.2 MSA 160.7 SSA 12.3
 BDE 1.1274 BRA 1.8469 BC3 .1770 FSP -1244 SG1 2782.0 SG2 220.5 THA .03 EL1 1492.7 EL2 102.7 ALF 5.11

LAUNCH DATE DEC 4 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 357.199

RL 147.43 LAL -0.00 LOL 71.91 VL 27.281 GAL 6.21 AZL 86.16 HCA 149.72 SMA 125.65 ECC .20340 INC 3.8377 V1 30.221
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.372 GAP -8.63 AZP 93.32 TAL 154.08 TAP 303.80 RCA 100.10 APO 151.21 V2 35.020
 RC 46.944 GL 21.97 GP -3.15 ZAL 48.68 ZAP 18.51 ETS 11.52 ZAE 164.08 ETE 319.84 ZAC 117.90 ETC 167.62 CLP -18.24

PLANETOCENTRIC CONIC

C3 23.545 VHL 4.852 DLA 30.83 RAL 16.34 RAD 6568.0 VEL 12.038 PTH 2.15 VHP 6.167 DPA 3.70 RAP 23.97 ECC 1.3875
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.27 23 50 18 3902.35 -20.23 160.50 248.23 66.22 24 55 20 3302.4 -23.27 152.94
 102.73 3 17 19 3249.20 -20.22 112.31 248.22 66.22 4 11 28 2649.2 -23.26 104.76
 77.27 23 50 18 3902.35 -20.23 160.50 248.23 66.22 24 55 20 3302.4 -23.27 152.94
 102.73 3 17 19 3249.20 -20.22 112.31 248.22 66.22 4 11 28 2649.2 -23.26 104.76
 110.00 5 59 4 2744.42 -31.04 78.10 252.45 74.91 6 44 49 2144.4 -32.80 69.32
 110.00 2 11 39 3455.13 -10.12 122.29 242.60 57.17 3 9 14 2855.1 -14.37 115.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.1057 TRA-1.7732 TC3 .2084 BAU .0767 SGT 2773.4 SGR 202.3 SG3 455.1 ST 1496.6 SR 138.4 SS 1692.6
 ROE -.1151 RRA .0626 RC3 -.1264 FAU .04710 RRT -.1020 RRF .1452 RTF -.9596 CRT .7654 CRS .8362 CST .9928
 FDE 2.4865 FRA 2.9363 FC3-1.7320 BSP 10351 SGB 2780.7 R23 -.0470 R13 .9596 LSA 2258.1 MSA 156.9 SSA 11.0
 BDE 1.1117 BRA 1.7743 BC3 .2437 FSP -1430 SG1 2773.4 SG2 201.2 THA 179.57 EL1 1500.4 EL2 88.8 ALF 4.06

LAUNCH DATE DEC 4 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

RL 147.43 LAL -1.00 LOL 71.91 VL 27.350 GAL 6.00 AZL 86.10 HCA 152.92 SMA 126.11 ECC .19793 INC 3.9022 V1 30.221
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.411 GAP -8.03 AZP 93.48 TAL 154.14 TAP 307.06 RCA 101.15 APO 151.07 V2 35.007
 RC 48.205 GL 22.92 GP -3.69 ZAL 49.14 ZAP 20.75 ETS 11.92 ZAE 162.89 ETE 323.11 ZAC 119.01 ETC 167.88 CLP -20.43

PLANETOCENTRIC CONIC

C3 22.595 VHL 4.753 CLA 31.64 RAL 15.74 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 5.843 DPA 3.60 RAP 25.12 ECC 1.3719
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.26 23 33 45 3936.86 -21.01 163.47 247.20 65.78 24 39 22 3336.9 -24.10 155.90
 104.74 3 29 4 3194.63 -21.00 108.56 247.19 65.77 4 22 18 2594.6 -24.09 100.99
 75.26 23 33 45 3936.86 -21.01 163.47 247.20 65.78 24 39 22 3336.9 -24.10 155.90
 104.74 3 29 4 3194.63 -21.00 108.56 247.19 65.77 4 22 18 2594.6 -24.09 100.99
 110.00 5 42 10 2781.57 -30.35 80.77 251.04 73.46 6 28 32 2181.6 -32.32 72.11
 110.00 2 23 45 3397.91 -12.21 119.18 242.28 57.82 3 20 23 2797.9 -16.37 112.54

DIFFERENTIAL CORRECTIONS

TDE-1.1742 TRA-1.7795 TC3 .1444 BAU .0596
 RDE -.0844 RRA .0686 RC3 -.1343 FAU .04850
 FDE 2.8181 FRA 3.1975 FC3-1.8583 BSP 9035
 BDE 1.1772 BRA 1.7808 BC3 .1972 FSP -1465

MID-COURSE EXECUTION ACCURACY

SGT 2893.1 SGR 190.0 SG3 512.3
 RRT -.2152 RRF .2838 RTF -.9594
 SGB 2899.3 R23 -.0783 R13 .9594
 SG1 2893.4 SG2 185.5 THA 179.19

ORBIT DETERMINATION ACCURACY

ST 1604.5 SR 105.9 SS 1847.1
 CRT .7177 CRS .7893 CST .9939
 LSA 2444.3 MSA 150.4 SSA 10.7
 EL1 1606.3 EL2 73.7 ALF 2.72

LAUNCH DATE DEC 4 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

RL 147.43 LAL -1.00 LOL 71.91 VL 27.414 GAL 5.80 AZL 86.02 HCA 156.12 SMA 126.53 ECC .19289 INC 3.9825 V1 30.221
 RP 108.29 LAP 1.61 LOP 228.08 VP 37.445 GAP -7.45 AZP 93.64 TAL 154.23 TAP 310.35 RCA 102.12 APO 150.93 V2 34.994
 RC 49.590 GL 23.94 GP -4.40 ZAL 49.67 ZAP 23.15 ETS 12.51 ZAE 161.80 ETE 325.02 ZAC 120.04 ETC 168.25 CLP -22.75

PLANETOCENTRIC CONIC

C3 21.784 VHL 4.667 CLA 32.51 RAL 15.06 RAD 6567.9 VEL 11.965 PTH 2.13 VHP 5.533 DPA 3.30 RAP 26.20 ECC 1.3585
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.33 23 18 7 3968.44 -21.80 166.26 246.20 65.27 24 24 16 3368.4 -24.95 158.67
 106.67 3 39 20 3145.35 -21.79 105.20 246.19 65.26 4 31 45 2545.4 -24.94 97.60
 73.33 23 18 7 3968.44 -21.80 166.26 246.20 65.27 24 24 16 3368.4 -24.95 158.67
 106.67 3 39 20 3145.35 -21.79 105.20 246.19 65.26 4 31 45 2545.4 -24.94 97.60
 110.00 5 21 1 2831.73 -29.33 84.32 249.50 71.59 6 8 12 2231.7 -31.56 75.82
 110.00 2 39 32 3330.05 -14.64 115.42 242.20 58.76 3 35 3 2730.1 -18.67 108.62

DIFFERENTIAL CORRECTIONS

TDE-1.1730 TRA-1.7128 TC3 .1956 BAU .0706
 RDE -.0478 RRA .0809 RC3 -.1431 FAU .05344
 FDE 3.1236 FRA 3.4046 FC3-2.1239 BSP 9333
 BDE 1.1739 BRA 1.7147 BC3 .2424 FSP -1657

MID-COURSE EXECUTION ACCURACY

SGT 2884.9 SGR 187.6 SG3 567.8
 RRT -.4316 RRF .5058 RTF -.9620
 SGB 2891.0 R23 -.0989 R13 .9621
 SG1 2886.0 SG2 169.1 THA 178.39

ORBIT DETERMINATION ACCURACY

ST 1622.6 SR 68.7 SS 1966.4
 CRT .5216 CRS .6105 CST .9940
 LSA 2546.0 MSA 148.0 SSA 9.3
 EL1 1623.0 EL2 58.6 ALF 1.27

LAUNCH DATE DEC 4 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

RL 147.43 LAL -1.00 LOL 71.91 VL 27.471 GAL 5.61 AZL 85.91 HCA 159.32 SMA 126.91 ECC .18827 INC 4.0859 V1 30.221
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.475 GAP -6.88 AZP 93.82 TAL 154.33 TAP 313.64 RCA 103.02 APO 150.80 V2 34.980
 RC 51.091 GL 25.08 GP -5.34 ZAL 50.26 ZAP 25.74 ETS 13.36 ZAE 160.79 ETE 325.63 ZAC 120.97 ETC 168.78 CLP -25.21

PLANETOCENTRIC CONIC

C3 21.128 VHL 4.596 CLA 33.46 RAL 14.31 RAD 6567.9 VEL 11.938 PTH 2.12 VHP 5.240 DPA 2.73 RAP 27.25 ECC 1.3477
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.38 23 2 40 3999.48 -22.61 169.06 245.26 64.65 24 9 20 3399.5 -25.83 161.45
 108.62 3 48 45 3099.56 -22.60 102.08 245.25 64.64 4 40 25 2499.6 -25.82 94.47
 71.38 23 2 40 3999.48 -22.61 169.06 245.26 64.65 24 9 20 3399.5 -25.83 161.45
 108.62 3 48 45 3099.56 -22.60 102.08 245.25 64.64 4 40 25 2499.6 -25.82 94.47
 110.00 4 50 26 2910.64 -27.51 89.74 247.58 68.86 5 38 57 2310.6 -30.13 81.52
 110.00 3 4 6 3236.40 -17.87 110.09 242.63 60.37 3 58 2 2636.4 -21.68 103.02

DIFFERENTIAL CORRECTIONS

TDE-1.1775 TRA-1.6478 TC3 .2309 BAU .0789
 RDE -.0033 RRA .1004 RC3 -.1569 FAU .05855
 FDE 3.4915 FRA 3.6359 FC3-2.3993 BSP 9427
 BDE 1.1775 BRA 1.6509 BC3 .2792 FSP -1856

MID-COURSE EXECUTION ACCURACY

SGT 2874.2 SGR 208.2 SG3 630.9
 RRT -.6584 RRF .7337 RTF -.9640
 SGB 2881.7 R23 -.1290 R13 .9643
 SG1 2877.5 SG2 156.5 THA 177.26

ORBIT DETERMINATION ACCURACY

ST 1643.1 SR 45.4 SS 2104.0
 CRT -.3645 CRS -.2635 CST .9941
 LSA 2666.0 MSA 146.6 SSA 7.8
 EL1 1643.2 EL2 42.3 ALF 179.42

LAUNCH DATE DEC 4 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

RL 147.43 LAL -1.00 LOL 71.91 VL 27.524 GAL 5.44 AZL 85.77 HCA 162.51 SMA 127.26 ECC .18405 INC 4.2251 V1 30.221
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.501 GAP -6.32 AZP 94.03 TAL 154.43 TAP 316.94 RCA 103.84 APO 150.68 V2 34.967
 RC 52.697 GL 26.38 GP -6.64 ZAL 50.95 ZAP 28.55 ETS 14.57 ZAE 159.83 ETE 324.84 ZAC 121.82 ETC 169.57 CLP -27.83

PLANETOCENTRIC CONIC

C3 20.647 VHL 4.544 CLA 34.56 RAL 13.43 RAD 6567.8 VEL 11.918 PTH 2.12 VHP 4.963 DPA 1.76 RAP 28.28 ECC 1.3398
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.31 22 46 39 4032.20 -23.47 172.06 244.37 63.87 23 53 51 3432.2 -26.78 164.43
 110.69 3 57 47 3055.80 -23.45 99.12 244.37 63.86 4 48 43 2455.8 -26.77 91.49
 69.31 22 46 39 4032.20 -23.47 172.06 244.37 63.87 23 53 51 3432.2 -26.78 164.43
 110.69 3 57 47 3055.80 -23.45 99.12 244.37 63.86 4 48 43 2455.8 -26.77 91.49
 69.31 22 46 39 4032.20 -23.47 172.06 244.37 63.87 23 53 51 3432.2 -26.78 164.43
 110.69 3 57 47 3055.80 -23.45 99.12 244.37 63.86 4 48 43 2455.8 -26.77 91.49

DIFFERENTIAL CORRECTIONS

TDE-1.1820 TRA-1.5770 TC3 .2578 BAU .0866
 RDE .0546 RRA .1306 RC3 -.1785 FAU .06408
 FDE 3.9276 FRA 3.8774 FC3-2.6869 BSP 9469
 BDE 1.1833 BRA 1.5824 BC3 .3136 FSP -2077

MID-COURSE EXECUTION ACCURACY

SGT 2847.1 SGR 266.5 SG3 700.5
 RRT -.8215 RRF .8905 RTF -.9655
 SGB 2859.6 R23 -.1666 R13 .9662
 SG1 2855.6 SG2 151.5 THA 175.59

ORBIT DETERMINATION ACCURACY

ST 1657.1 SR 91.4 SS 2257.2
 CRT -.9642 CRS -.9312 CST .9942
 LSA 2797.8 MSA 146.7 SSA 6.5
 EL1 1659.5 EL2 24.2 ALF 176.95

LAUNCH DATE DEC 4 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 390.435

RL 147.43 LAL -1.00 LOL 71.91 VL 27.571 GAL 5.29 AZL 85.58 HCA 165.71 SMA 127.58 ECC .18024 INC 4.4240 V1 30.221
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.524 GAP -5.78 AZP 94.29 TAL 154.54 TAP 320.24 RCA 104.59 APO 150.58 V2 34.954
 RC 54.398 GL 27.96 GP -8.54 ZAL 51.79 ZAP 31.69 ETS 16.33 ZAE 158.73 ETE 322.33 ZAC 122.61 ETC 170.78 CLP -30.63

PLANETOCENTRIC CONIC

C3 20.397 VHL 4.516 DLA 35.89 RAL 12.36 RAD 6567.8 VEL 11.907 PTH 2.12 VHP 4.709 OPA .16 RAP 29.39 ECC 1.3357
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.96 22 28 58 4069.59 -24.40 175.53 243.57 62.81 23 36 47 3469.6 -27.84 167.90
 113.04 4 6 53 3012.58 -24.38 96.21 243.56 62.80 4 57 6 2412.6 -27.82 88.58
 66.96 22 28 58 4069.59 -24.40 175.53 243.57 62.81 23 36 47 3469.6 -27.84 167.90
 113.04 4 6 53 3012.58 -24.38 96.21 243.56 62.80 4 57 6 2412.6 -27.82 88.58
 66.96 22 28 58 4069.59 -24.40 175.53 243.57 62.81 23 36 47 3469.6 -27.84 167.90
 113.04 4 6 53 3012.58 -24.38 96.21 243.56 62.80 4 57 6 2412.6 -27.82 88.58

DIFFERENTIAL CORRECTIONS

TDE-1.1925 TRA-1.5019 TC3 .2683 BAU .0933
 RDE .1370 RRA .1776 RC3 -.2122 FAU .06957
 FDE 4.4608 FRA 4.1200 FC3-2.9529 BSP 9397
 BDE 1.2004 BRA 1.5124 BC3 .3421 FSP -2304

MID-COURSE EXECUTION ACCURACY

SGT 2807.1 SGR 379.9 SG3 776.5
 RRT -.9036 RRF .9635 RTF -.9665
 SGB 2832.7 R23 -.2035 R13 .9680
 SG1 2828.1 SG2 161.5 THA 173.00

ORBIT DETERMINATION ACCURACY

ST 1669.4 SR 192.9 SS 2433.9
 CRT -.9996 CRS -.9929 CST .9943
 LSA 2953.9 MSA 148.3 SSA 5.0
 EL1 1680.5 EL2 5.3 ALF 173.41

LAUNCH DATE DEC 4 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 397.020

RL 147.43 LAL -1.00 LOL 71.91 VL 27.614 GAL 5.15 AZL 85.27 HCA 168.90 SMA 127.87 ECC .17679 INC 4.7343 V1 30.221
 RP 108.45 LAP .91 LOP 240.85 VP 37.544 GAP -5.26 AZP 94.65 TAL 154.64 TAP 323.54 RCA 105.26 APO 150.48 V2 34.942
 RC 56.186 GL 30.08 GP -11.54 ZAL 52.91 ZAP 35.31 ETS 19.04 ZAE 157.07 ETE 317.56 ZAC 123.36 ETC 172.74 CLP -33.60

PLANETOCENTRIC CONIC

C3 20.512 VHL 4.529 DLA 37.68 RAL 10.91 RAD 6567.8 VEL 11.912 PTH 2.12 VHP 4.488 OPA -2.52 RAP 30.76 ECC 1.3376
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.03 22 7 43 4116.57 -25.46 179.95 242.86 61.23 23 16 19 3516.6 -29.09 172.34
 115.97 4 16 34 2968.28 -25.45 93.26 242.85 61.22 5 6 3 2368.3 -29.08 85.65
 64.03 22 7 43 4116.57 -25.46 179.95 242.86 61.23 23 16 19 3516.6 -29.09 172.34
 115.97 4 16 34 2968.28 -25.45 93.26 242.85 61.22 5 6 3 2368.3 -29.08 85.65
 64.03 22 7 43 4116.57 -25.46 179.95 242.86 61.23 23 16 19 3516.6 -29.09 172.34
 115.97 4 16 34 2968.28 -25.45 93.26 242.85 61.22 5 6 3 2368.3 -29.08 85.65

DIFFERENTIAL CORRECTIONS

TDE-1.2122 TRA-1.4168 TC3 .2659 BAU .1033
 RDE .2682 RRA .2529 RC3 -.2666 FAU .07482
 FDE 5.1132 FRA 4.3136 FC3-3.1577 BSP 9337
 BDE 1.2415 BRA 1.4392 BC3 .3765 FSP -2540

MID-COURSE EXECUTION ACCURACY

SGT 2745.7 SGR 580.4 SG3 853.4
 RRT -.9375 RRF .9895 RTF -.9669
 SGB 2806.4 R23 -.2249 R13 .9702
 SG1 2799.4 SG2 198.1 THA 168.73

ORBIT DETERMINATION ACCURACY

ST 1677.3 SR 360.4 SS 2633.8
 CRT -.9972 CRS -.9994 CST .9942
 LSA 3139.6 MSA 152.5 SSA 3.6
 EL1 1715.4 EL2 26.5 ALF 167.91

LAUNCH DATE DEC 4 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 403.583

RL 147.43 LAL -1.00 LOL 71.91 VL 27.653 GAL 5.03 AZL 84.71 HCA 172.08 SMA 128.13 ECC .17370 INC 5.2900 V1 30.221
 RP 108.49 LAP .73 LOP 244.03 VP 37.560 GAP -4.74 AZP 95.24 TAL 154.74 TAP 326.82 RCA 105.88 APO 150.39 V2 34.929
 RC 58.051 GL 33.30 GP -16.85 ZAL 54.67 ZAP 39.92 ETS 23.59 ZAE 153.64 ETE 309.87 ZAC 124.14 ETC 176.34 CLP -36.73

PLANETOCENTRIC CONIC

C3 21.394 VHL 4.625 DLA 40.39 RAL 8.61 RAD 6567.9 VEL 11.949 PTH 2.13 VHP 4.335 OPA -7.39 RAP 32.89 ECC 1.3521
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.91 21 38 51 4183.09 -26.76 186.33 242.29 58.54 22 48 34 3583.1 -30.71 178.82
 120.09 4 27 8 2921.98 -26.74 90.23 242.28 58.53 5 15 50 2322.0 -30.70 82.71
 59.91 21 38 51 4183.09 -26.76 186.33 242.29 58.54 22 48 34 3583.1 -30.71 178.82
 120.09 4 27 8 2921.98 -26.74 90.23 242.28 58.53 5 15 50 2322.0 -30.70 82.71
 59.91 21 38 51 4183.09 -26.76 186.33 242.29 58.54 22 48 34 3583.1 -30.71 178.82
 120.09 4 27 8 2921.98 -26.74 90.23 242.28 58.53 5 15 50 2322.0 -30.70 82.71

DIFFERENTIAL CORRECTIONS

TDE-1.2654 TRA-1.3188 TC3 .2417 BAU .1227
 RDE .5169 RRA .3802 RC3 -.3543 FAU .07773
 FDE 5.9252 FRA 4.3322 FC3-3.1455 BSP 9393
 BDE 1.3669 BRA 1.3725 BC3 .4289 FSP -2730

MID-COURSE EXECUTION ACCURACY

SGT 2666.0 SGR 948.5 SG3 914.3
 RRT -.9503 RRF .9972 RTF -.9665
 SGB 2829.7 R23 -.2200 R13 .9746
 SG1 2815.8 SG2 279.5 THA 161.13

ORBIT DETERMINATION ACCURACY

ST 1694.5 SR 666.7 SS 2861.2
 CRT -.9942 CRS -1.0000 CST .9940
 LSA 3387.7 MSA 160.3 SSA 2.2
 EL1 1819.7 EL2 67.0 ALF 158.61

LAUNCH DATE DEC 4 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 410.123

RL 147.43 LAL -1.00 LOL 71.91 VL 27.687 GAL 4.92 AZL 83.41 HCA 175.27 SMA 128.37 ECC .17097 INC 6.5854 V1 30.221
 RP 108.53 LAP .54 LOP 247.21 VP 37.574 GAP -4.25 AZP 96.56 TAL 154.83 TAP 330.10 RCA 106.42 APO 150.31 V2 34.917
 RC 59.985 GL 39.41 GP -28.32 ZAL 58.21 ZAP 47.44 ETS 32.25 ZAE 144.46 ETE 299.47 ZAC 124.66 ETC 184.50 CLP -39.80

PLANETOCENTRIC CONIC

C3 24.840 VHL 4.984 DLA 45.39 RAL 3.75 RAD 6568.0 VEL 12.092 PTH 2.16 VHP 4.428 OPA -17.86 RAP 37.69 ECC 1.4088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.92 20 50 45 4297.00 -28.16 197.51 241.88 52.81 22 2 22 3697.0 -32.79 190.35
 127.08 4 36 25 2880.81 -28.15 87.67 241.87 52.80 5 24 26 2280.8 -32.78 80.51
 52.92 20 50 45 4297.00 -28.16 197.51 241.88 52.81 22 2 22 3697.0 -32.79 190.35
 127.08 4 36 25 2880.81 -28.15 87.67 241.87 52.80 5 24 26 2280.8 -32.78 80.51
 52.92 20 50 45 4297.00 -28.16 197.51 241.88 52.81 22 2 22 3697.0 -32.79 190.35
 127.08 4 36 25 2880.81 -28.15 87.67 241.87 52.80 5 24 26 2280.8 -32.78 80.51

DIFFERENTIAL CORRECTIONS

TDE-1.4663 TRA-1.2049 TC3 .1716 BAU .1655
 RDE 1.1580 RRA .6044 RC3 -.4678 FAU .06917
 FDE 6.8208 FRA 3.7283 FC3-2.4107 BSP 9964
 BDE 1.8684 BRA 1.3480 BC3 .4983 FSP -2600

MID-COURSE EXECUTION ACCURACY

SGT 2600.2 SGR 1723.0 SG3 883.3
 RRT -.9543 RRF .9991 RTF -.9656
 SGB 3119.2 R23 -.1710 R13 .9852
 SG1 3089.0 SG2 433.4 THA 146.96

ORBIT DETERMINATION ACCURACY

ST 1786.6 SR 1364.0 SS 3080.8
 CRT -.9930 CRS -.9999 CST .9941
 LSA 3809.7 MSA 173.9 SSA .9
 EL1 2244.1 EL2 128.3 ALF 142.69

LAUNCH DATE DEC 4 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 416.626

RL 147.43 LAL -.00 LOL 71.91 VL 27.717 GAL 4.82 AZL 76.86 HCA 178.44 SMA 128.58 ECC .16858 INC13.1362 V1 30.221
 RP 108.57 LAP .36 LOP 250.39 VP 37.585 GAP -3.76 AZP 103.13 TAL 154.90 TAP 333.33 RCA 106.90 APO 150.25 V2 34.906
 RC 61.981 GL 56.16 GP -62.05 ZAL 70.01 ZAP 68.19 ETS 54.61 ZAE 112.53 ETE 297.33 ZAC 119.54 ETC 213.41 CLP -37.58

PLANETOCENTRIC CONIC

C3 57.136 VHL 7.559 DLA 56.82 RAL 343.27 RAD 6569.0 VEL 13.360 PTH 2.44 VHP 7.196 OPA -46.10 RAP 60.39 ECC 1.9403
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.44 18 43 16 4612.22 -22.60 223.76 237.49 36.35 20 0 8 4012.2 -28.95 218.77
 141.56 4 0 32 2982.69 -22.59 91.84 237.47 36.35 4 50 14 2382.7 -28.94 86.85
 38.44 18 43 16 4612.22 -22.60 223.76 237.49 36.35 20 0 8 4012.2 -28.95 218.77
 141.56 4 0 32 2982.69 -22.59 91.84 237.47 36.35 4 50 14 2382.7 -28.94 86.85
 38.44 18 43 16 4612.22 -22.60 223.76 237.49 36.35 20 0 8 4012.2 -28.95 218.77
 141.56 4 0 32 2982.69 -22.59 91.84 237.47 36.35 4 50 14 2382.7 -28.94 86.85

DIFFERENTIAL CORRECTIONS

TDE -3.4967 TRA -1.0279 TC3 -.0139 BAU .1573
 ROE 4.0728 RRA .5057 RC3 -.2055 FAU .01306
 FOE 5.3077 FRA .8994 FC3 -.1978 BSP 12460
 BOE 5.3679 BRA 1.1456 BC3 .2060 FSP -1042

MID-COURSE EXECUTION ACCURACY

SGT 3008.8 SGR 3100.9 SG3 364.8
 RRT -.9585 RRF .9967 RTF -.9785
 SGB 4378.4 R23 -.0548 R13 .9985
 SG1 4332.9 SG2 629.7 TMA 133.34

ORBIT DETERMINATION ACCURACY

ST 2684.7 SR 3094.3 SS 2512.3
 CRT -.9958 CRS -.9997 CST .9977
 LSA 4801.9 MSA 188.9 SSA .0
 EL1 4092.4 EL2 186.2 ALF 130.93

LAUNCH DATE DEC 4 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 423.177

RL 147.43 LAL -.00 LOL 71.91 VL 27.743 GAL 4.73 AZL 95.79 HCA 181.66 SMA 128.76 ECC .16640 INC 5.7882 V1 30.221
 RP 108.60 LAP .17 LOP 253.57 VP 37.594 GAP -3.27 AZP 84.21 TAL 155.00 TAP 336.66 RCA 107.33 APO 150.18 V2 34.894
 RC 64.032 GL -36.87 GP 61.95 ZAL 56.83 ZAP 69.75 ETS 320.88 ZAE 119.94 ETE 74.65 ZAC 92.76 ETC 146.83 CLP -42.62

PLANETOCENTRIC CONIC

C3 21.591 VHL 4.647 DLA -24.56 RAL 37.18 RAD 6567.9 VEL 11.957 PTH 2.13 VHP 6.782 OPA 61.82 RAP 343.79 ECC 1.3553
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 12 49 20 1333.92 7.07 350.58 261.88 117.49 13 11 34 733.9 10.70 343.78
 90.00 17 4 36 5775.57 26.92 274.86 268.71 99.13 18 40 51 5175.6 27.91 266.33
 100.00 13 49 19 1140.28 5.14 335.30 260.83 119.49 14 8 19 540.3 9.03 328.67
 100.00 18 47 18 5444.45 29.09 250.85 269.06 97.18 20 18 2 4844.4 29.78 242.11
 110.00 14 16 13 1055.89 .88 326.26 258.18 124.17 14 33 49 455.9 5.35 320.03
 110.00 20 36 53 5101.60 34.09 225.31 269.57 92.62 22 1 55 4501.6 34.08 216.07

DIFFERENTIAL CORRECTIONS

TDE -.4725 TRA -1.5138 TC3 .1634 BAU .3294
 ROE -.1499 RRA -2.6844 RC3 1.1294 FAU .03441
 FOE .2609 FRA 3.2915 FC3 -1.3798 BSP 14033
 BOE .4957 BRA 3.0819 BC3 1.1412 FSP -1296

MID-COURSE EXECUTION ACCURACY

SGT 2138.8 SGR 3792.1 SG3 402.1
 RRT .9538 RRF -.9998 RTF -.9584
 SGB 4353.7 R23 -.0558 R13 -.9984
 SG1 4317.0 SG2 564.3 TMA 61.18

ORBIT DETERMINATION ACCURACY

ST 847.6 SR 1107.8 SS 807.0
 CRT .8307 CRS .9977 CST .8667
 LSA 1560.6 MSA 401.9 SSA 1.2
 EL1 1339.1 EL2 390.3 ALF 54.03

LAUNCH DATE DEC 4 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 429.638

RL 147.43 LAL -.00 LOL 71.91 VL 27.767 GAL 4.67 AZL 89.76 HCA 184.83 SMA 128.92 ECC .16462 INC .2494 V1 30.221
 RP 108.64 LAP -.02 LOP 256.74 VP 37.601 GAP -2.81 AZP 90.24 TAL 155.03 TAP 339.85 RCA 107.70 APO 150.14 V2 34.883
 RC 66.131 GL 1.89 GP 31.90 ZAL 45.39 ZAP 58.56 ETS 340.04 ZAE 149.55 ETE 72.24 ZAC 105.80 ETC 153.92 CLP -52.10

PLANETOCENTRIC CONIC

C3 12.811 VHL 3.579 DLA 12.01 RAL 23.93 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 3.906 OPA 35.86 RAP 8.81 ECC 1.2108
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 19 2495.49 -25.25 60.09 241.73 103.27 7 13 54 1895.5 -23.17 52.03
 90.00 21 35 53 4375.14 5.66 181.78 237.79 62.21 22 48 48 3775.1 1.90 175.12
 100.00 7 59 47 2213.41 -26.29 39.05 241.44 104.77 8 36 40 1613.4 -24.00 31.00
 100.00 22 51 6 4132.45 6.61 163.42 237.27 60.78 23 59 58 3532.4 2.66 156.86
 110.00 9 21 51 1956.60 -29.04 18.61 240.51 108.88 9 54 28 1356.6 -26.19 10.59
 110.00 23 45 31 3962.02 9.07 148.99 235.77 56.90 24 51 33 3362.0 4.64 142.69

DIFFERENTIAL CORRECTIONS

TDE -.4248 TRA -.9953 TC3 .1725 BAU .2264
 ROE -.5165 RRA -1.3034 RC3 1.3106 FAU .10219
 FOE 2.8426 FRA 6.7167 FC3 -6.9054 BSP 9924
 BOE .6688 BRA 1.6400 BC3 1.3219 FSP -3435

MID-COURSE EXECUTION ACCURACY

SGT 1769.5 SGR 2472.7 SG3 1113.1
 RRT .9491 RRF -.9998 RTF -.9480
 SGB 3040.6 R23 -.1096 R13 -.9937
 SG1 3005.9 SG2 458.3 TMA 54.88

ORBIT DETERMINATION ACCURACY

ST 837.4 SR 1046.0 SS 1897.2
 CRT .9991 CRS .9995 CST .9998
 LSA 2322.4 MSA 30.9 SSA 16.0
 EL1 1339.6 EL2 27.5 ALF 51.33

LAUNCH DATE DEC 4 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 436.090

RL 147.43 LAL -.00 LOL 71.91 VL 27.787 GAL 4.62 AZL 88.50 HCA 188.00 SMA 129.06 ECC .16312 INC 1.4985 V1 30.221
 RP 108.67 LAP -.21 LOP 259.91 VP 37.606 GAP -2.36 AZP 91.48 TAL 155.04 TAP 343.05 RCA 108.01 APO 150.11 V2 34.873
 RC 68.274 GL 11.53 GP 21.36 ZAL 46.61 ZAP 59.66 ETS 348.89 ZAE 160.01 ETE 70.74 ZAC 109.00 ETC 157.69 CLP -57.15

PLANETOCENTRIC CONIC

C3 13.139 VHL 3.625 DLA 20.91 RAL 20.07 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 3.427 OPA 25.74 RAP 12.78 ECC 1.2162
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 35 2835.34 -28.28 84.41 241.72 91.52 5 36 50 2235.3 -27.77 75.78
 90.00 22 47 47 4046.17 -4.91 163.38 236.04 62.08 23 55 13 3446.2 -8.61 156.65
 100.00 6 24 54 2527.99 -29.72 61.73 241.65 93.37 7 7 2 1928.0 -28.93 53.01
 100.00 23 55 9 3828.75 -3.65 146.71 235.35 60.31 24 58 58 3228.8 -7.57 140.12
 110.00 8 2 44 2221.89 -33.31 38.05 241.22 98.15 8 39 46 1621.9 -31.83 29.14
 110.00 0 37 44 3707.62 -.58 135.61 233.43 55.82 1 39 32 3107.6 -5.06 129.39

DIFFERENTIAL CORRECTIONS

TDE -.3878 TRA -.7968 TC3 .0341 BAU .1611
 ROE -.4709 RRA -.8834 RC3 .9167 FAU .12870
 FOE 4.7246 FRA 7.9781 FC3 -8.4802 BSP 7798
 BOE .6100 BRA 1.1897 BC3 .9173 FSP -4400

MID-COURSE EXECUTION ACCURACY

SGT 1481.3 SGR 1797.2 SG3 1434.9
 RRT .9346 RRF -.9992 RTF -.9321
 SGB 2329.0 R23 -.1496 R13 -.9879
 SG1 2292.0 SG2 413.2 TMA 50.88

ORBIT DETERMINATION ACCURACY

ST 734.4 SR 869.2 SS 2516.3
 CRT .9989 CRS .9990 CST .9961
 LSA 2760.7 MSA 69.7 SSA 8.7
 EL1 1137.6 EL2 26.1 ALF 49.81

LAUNCH DATE DEC 4 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 442.522

RL 147.43 LAL -.00 LOL 71.91 VL 27.803 GAL 4.58 AZL 87.96 MCA 191.18 SMA 129.18 ECC .16189 INC 2.0420 V1 30.1221
 RP 108.70 LAP -.40 LOP 263.08 VP 37.609 GAP -1.91 AZP 92.00 TAL 155.03 TAP 346.21 RCA 108.26 APO 150.09 V2 34.862
 RC 70.456 GL 15.63 GP 16.29 ZAL 47.62 ZAP 63.43 ETS 353.57 ZAE 165.44 ETE 75.26 ZAC 109.34 ETC 160.02 CLP -62.23

PLANETOCENTRIC CONIC

C3 13.452 VML 3.668 DLA 24.65 RAL 18.26 RAD 6567.5 VEL 11.612 PTH 2.03 VMP 3.198 DPA 20.40 RAP 13.43 ECC 1.2214
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 49 31 3028.08 -27.82 98.47 241.53 84.50 4 39 59 2428.1 -28.29 89.83
 90.00 23 33 28 3863.63 -10.60 152.99 236.34 63.59 24 37 51 3263.6 -14.06 146.03
 100.00 5 32 31 2696.03 -29.74 74.20 241.70 86.81 6 17 27 2096.0 -29.86 65.40
 100.00 0 37 5 3670.91 -8.90 137.93 235.44 61.34 1 38 16 3070.9 -12.65 131.16
 110.00 7 22 29 2351.95 -34.12 48.11 241.74 92.26 8 1 41 1752.0 -33.43 38.94
 110.00 1 3 36 3587.76 -5.15 129.34 233.15 56.16 2 3 24 2987.8 -9.56 123.03

DIFFERENTIAL CORRECTIONS

TDE -.2942 TRA -.6103 TC3 -.1216 BAU .1313
 RDE -.4021 RRA -.6890 RC3 .7199 FAU .14498
 FDE 5.9979 FRA 8.7485 FC3-9.3306 BSP 6292
 BDE .4983 BRA .9204 BC3 .7301 FSP -5037

MID-COURSE EXECUTION ACCURACY

SGT 1148.7 SGR 1440.8 SG3 1641.0
 RRT .8966 RRF -.9979 RTF -.8924
 SGB 1842.7 R23 -.1785 R13 -.9818
 SG1 1797.0 SG2 408.0 THA 52.15

ORBIT DETERMINATION ACCURACY

ST 557.0 SR 721.9 SS 2873.6
 CRT .9960 CRS .9978 CST .9882
 LSA 3013.3 MSA 93.6 SSA 8.0
 EL1 911.0 EL2 39.6 ALF 52.38

LAUNCH DATE DEC 4 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 448.932

RL 147.43 LAL -.00 LOL 71.91 VL 27.817 GAL 4.55 AZL 87.65 MCA 194.35 SMA 129.27 ECC .16093 INC 2.3481 V1 30.221
 RP 108.73 LAP -.58 LOP 266.25 VP 37.611 GAP -1.47 AZP 92.27 TAL 154.99 TAP 349.35 RCA 108.47 APO 150.08 V2 34.853
 RC 72.672 GL 17.90 GP 13.32 ZAL 48.26 ZAP 68.16 ETS 356.40 ZAE 168.68 ETE 87.61 ZAC 108.50 ETC 161.63 CLP -67.52

PLANETOCENTRIC CONIC

C3 13.665 VML 3.697 DLA 26.73 RAL 17.24 RAD 6567.5 VEL 11.621 PTH 2.04 VMP 3.046 DPA 16.84 RAP 12.81 ECC 1.2249
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 29 3177.24 -26.39 109.14 241.04 79.34 3 55 26 2577.2 -27.59 100.68
 90.00 0 16 17 3721.33 -14.77 144.62 237.12 65.56 1 18 18 3121.3 -17.94 137.38
 100.00 4 55 44 2812.17 -28.99 82.75 241.51 82.38 5 42 36 2212.2 -29.74 74.03
 100.00 1 5 43 3561.63 -12.40 131.71 235.93 62.58 2 5 5 2961.6 -15.97 124.74
 110.00 6 57 4 2432.48 -34.16 54.40 241.99 88.54 7 37 37 1832.5 -33.98 45.16
 110.00 1 20 52 3514.09 -7.93 125.45 233.27 56.64 2 19 26 2914.1 -12.26 119.03

DIFFERENTIAL CORRECTIONS

TDE -.1626 TRA -.4157 TC3 -.2959 BAU .1240
 RDE -.3403 RRA -.5749 RC3 .6107 FAU .15824
 FDE 6.9387 FRA 9.3239 FC-10.0250 BSP 4999
 BDE .3772 BRA .7094 BC3 .6786 FSP -5587

MID-COURSE EXECUTION ACCURACY

SGT 794.8 SGR 1215.5 SG3 1796.6
 RRT .7803 RRF -.9955 RTF -.7721
 SGB 1452.3 R23 -.1879 R13 -.9776
 SG1 1385.3 SG2 436.2 THA 59.65

ORBIT DETERMINATION ACCURACY

ST 332.3 SR 606.7 SS 3106.4
 CRT .9805 CRS .9958 CST .9588
 LSA 3180.6 MSA 107.5 SSA 8.2
 EL1 689.3 EL2 57.5 ALF 61.55

LAUNCH DATE DEC 4 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 455.321

RL 147.43 LAL -.00 LOL 71.91 VL 27.829 GAL 4.54 AZL 87.46 MCA 197.52 SMA 129.35 ECC .16022 INC 2.5445 V1 30.221
 RP 108.76 LAP -.77 LOP 269.42 VP 37.611 GAP -1.04 AZP 92.43 TAL 154.92 TAP 352.45 RCA 108.63 APO 150.08 V2 34.844
 RC 74.919 GL 19.34 GP 11.34 ZAL 48.66 ZAP 73.37 ETS 358.28 ZAE 170.02 ETE 107.95 ZAC 107.01 ETC 162.84 CLP -73.03

PLANETOCENTRIC CONIC

C3 13.829 VML 3.719 DLA 28.06 RAL 16.62 RAD 6567.5 VEL 11.628 PTH 2.04 VMP 2.940 DPA 14.08 RAP 11.54 ECC 1.2276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 10 11 3343.82 -23.78 120.64 240.12 74.15 3 5 55 2743.8 -25.72 112.51
 90.00 1 3 37 3559.98 -19.05 134.72 238.41 68.65 2 2 57 2960.0 -21.79 127.11
 100.00 4 25 52 2906.41 -27.95 89.56 241.22 78.94 5 14 18 2306.4 -29.19 80.98
 100.00 1 30 37 3472.61 -15.13 126.51 236.60 63.91 2 28 30 2872.6 -18.51 119.35
 110.00 6 39 12 2489.09 -33.97 58.81 242.16 85.93 7 20 41 1889.1 -34.16 49.57
 110.00 1 33 46 3462.71 -9.84 122.70 233.54 57.10 2 31 29 2862.7 -14.11 116.19

DIFFERENTIAL CORRECTIONS

TDE -.0039 TRA -.2104 TC3 -.4925 BAU .1348
 RDE -.2871 RRA -.4987 RC3 .5374 FAU .16833
 FDE 7.6766 FRA 9.7854 FC-10.5377 BSP 3814
 BDE .2871 BRA .5413 BC3 .7289 FSP -6022

MID-COURSE EXECUTION ACCURACY

SGT 518.8 SGR 1055.2 SG3 1918.8
 RRT .3218 RRF -.9917 RTF -.3019
 SGB 1175.8 R23 -.1074 R13 -.9860
 SG1 1071.8 SG2 483.6 THA 78.67

ORBIT DETERMINATION ACCURACY

ST 110.9 SR 513.8 SS 3274.4
 CRT .5496 CRS .9922 CST .4431
 LSA 3314.2 MSA 117.3 SSA 8.6
 EL1 517.5 EL2 92.0 ALF 83.01

LAUNCH DATE DEC 4 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 461.688

RL 147.43 LAL -.00 LOL 71.91 VL 27.837 GAL 4.54 AZL 87.32 MCA 200.70 SMA 129.41 ECC .15976 INC 2.6822 V1 30.221
 RP 108.78 LAP -.95 LOP 272.59 VP 37.609 GAP -.62 AZP 92.51 TAL 154.82 TAP 355.51 RCA 108.74 APO 150.09 V2 34.835
 RC 77.194 GL 20.33 GP 9.89 ZAL 48.90 ZAP 78.87 ETS 359.61 ZAE 169.31 ETE 130.05 ZAC 105.14 ETC 163.79 CLP -78.70

PLANETOCENTRIC CONIC

C3 13.978 VML 3.739 DLA 28.99 RAL 16.25 RAD 6567.6 VEL 11.635 PTH 2.04 VMP 2.866 DPA 11.73 RAP 9.87 ECC 1.2300
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.49 0 41 34 3628.41 -22.03 140.91 239.36 70.66 1 42 3 3028.4 -24.47 133.03
 96.51 2 29 15 3280.09 -22.02 115.37 239.36 70.65 3 23 55 2680.1 -24.46 107.49
 100.00 3 58 13 2994.46 -26.64 95.78 240.88 75.92 4 48 8 2394.5 -28.32 87.38
 100.00 1 55 17 3389.28 -17.56 121.51 237.44 65.41 2 51 46 2789.3 -20.73 114.15
 110.00 6 25 53 2532.09 -33.71 62.14 242.33 83.98 7 8 5 1932.1 -34.18 52.93
 110.00 1 44 7 3424.41 -11.25 120.62 233.90 57.51 2 41 12 2824.4 -15.46 114.05

DIFFERENTIAL CORRECTIONS

TDE .1757 TRA .0050 TC3 -.7064 BAU .1600
 RDE -.2386 RRA -.4413 RC3 .4834 FAU .17578
 FDE 8.2170 FRA 10.1076 FC-10.8866 BSP 2972
 BDE .2963 BRA .4413 BC3 .8560 FSP -6368

MID-COURSE EXECUTION ACCURACY

SGT 592.9 SGR 928.5 SG3 2004.9
 RRT -.5379 RRF -.9858 RTF .5701
 SGB 1101.7 R23 .1592 R13 -.9740
 SG1 998.9 SG2 464.6 THA 114.62

ORBIT DETERMINATION ACCURACY

ST 269.7 SR 433.1 SS 3385.3
 CRT -.8493 CRS .9862 CST -.9244
 LSA 3421.2 MSA 125.0 SSA 9.1
 EL1 494.8 EL2 124.6 ALF 119.96

LAUNCH DATE DEC 4 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 468.034

RL 147.43 LAL -.00 LOL 71.91 VL 27.844 GAL 4.56 AZL 87.22 MCA 203.86 SMA 129.46 ECC .15955 INC 2.7848 V1 30.221
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.607 GAP -.20 AZP 92.55 TAL 154.68 TAP 358.54 RCA 108.80 APO 150.12 V2 34.827
 RC 79.493 GL 21.02 GP 8.77 ZAL 49.01 ZAP 84.53 ETS .59 ZAE 166.99 ETE 146.56 ZAC 103.02 ETC 164.53 CLP -84.47

PLANETOCENTRIC CONIC

C3 14.133 VHL 3.759 DLA 29.68 RAL 16.05 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 2.823 DPA 9.64 RAP 7.98 ECC 1.2326
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.71 0 18 50 3701.31 -22.48 146.47 239.53 70.09 1 20 32 3101.3 -24.99 138.58
 99.29 2 50 25 3212.02 -22.46 110.51 239.52 70.08 3 43 57 2612.0 -24.98 102.63
 100.00 3 25 52 3098.74 -24.71 102.93 240.35 72.63 4 17 30 2498.7 -26.86 94.78
 100.00 2 26 5 3289.83 -20.26 115.37 238.60 67.54 3 20 55 2689.8 -23.13 107.74
 110.00 6 15 39 2566.48 -33.43 64.79 242.55 82.43 6 58 25 1966.5 -34.12 55.62
 110.00 1 52 47 3394.85 -12.32 119.01 234.34 57.86 2 49 22 2794.9 -16.48 112.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .3694 TRA .2273 TC3 -.9342 BAU .1950 SGT 984.5 SGR 822.9 SG3 2054.3 ST 575.9 SR 361.5 SS 3450.8
 RDE -.1938 RRA -.3954 RC3 .4385 FAU .17955 RRT -.8325 RRF -.9770 RTF .8700 CRT -.9194 CRS .9757 CST -.9830
 FDE 8.5738 FRA10.2957 FC-10.9989 BSP 2918 SGB 1283.1 R23 .2411 R13 -.9523 LSA 3514.7 MSA 131.4 SSA 9.5
 BDE .4172 BRA .4561 BC3 1.0319 FSP -6576 SG1 1230.1 SG2 364.8 THA 141.11 EL1 668.9 EL2 122.4 ALF 148.85

LAUNCH DATE DEC 4 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 474.358

RL 147.43 LAL -.00 LOL 71.91 VL 27.848 GAL 4.59 AZL 87.14 MCA 207.03 SMA 129.49 ECC .15957 INC 2.8645 V1 30.221
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.603 GAP .21 AZP 92.55 TAL 154.50 TAP 1.53 RCA 108.83 APO 150.15 V2 34.820
 RC 81.813 GL 21.52 GP 7.84 ZAL 49.02 ZAP 90.24 ETS 1.33 ZAE 163.79 ETE 156.96 ZAC 100.81 ETC 165.10 CLP -90.25

PLANETOCENTRIC CONIC

C3 14.304 VHL 3.782 DLA 30.20 RAL 15.99 RAD 6567.6 VEL 11.649 PTH 2.04 VHP 2.807 DPA 7.71 RAP 6.00 ECC 1.2354
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.03 0 5 49 3744.80 -22.79 149.83 239.80 69.63 1 8 14 3144.8 -25.36 141.94
 100.97 3 2 59 3173.86 -22.78 107.79 239.80 69.61 3 55 53 2573.9 -25.35 99.91
 79.03 0 5 49 3744.80 -22.79 149.83 239.80 69.63 1 8 14 3144.8 -25.36 141.94
 100.97 3 2 59 3173.86 -22.78 107.79 239.80 69.61 3 55 53 2573.9 -25.35 99.91
 110.00 6 7 42 2594.92 -33.16 66.96 242.86 81.17 6 50 57 1994.9 -34.02 57.83
 110.00 2 0 17 3371.74 -13.16 117.74 234.85 58.16 2 56 28 2771.7 -17.27 111.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .5715 TRA .4533 TC3 -1.1641 BAU .2355 SGT 1468.4 SGR 730.8 SG3 2061.9 ST 898.4 SR 295.6 SS 3463.2
 RDE -.1509 RRA -.3560 RC3 .4018 FAU .18099 RRT -.8959 RRF -.9640 RTF .9441 CRT -.9142 CRS .9562 CST -.9926
 FDE 8.7174 FRA10.3081 FC-10.9540 BSP 3782 SGB 1640.2 R23 .1850 R13 -.9633 LSA 3587.4 MSA 137.1 SSA 9.8
 BDE .5911 BRA .5764 BC3 1.2314 FSP -6706 SG1 1613.4 SG2 295.5 THA 155.08 EL1 938.8 EL2 114.7 ALF 163.00

LAUNCH DATE DEC 4 1968

FLIGHT TIME 178.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 480.660

RL 147.43 LAL -.00 LOL 71.91 VL 27.850 GAL 4.63 AZL 87.07 MCA 210.20 SMA 129.51 ECC .15982 INC 2.9285 V1 30.221
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.598 GAP .62 AZP 92.53 TAL 154.29 TAP 4.49 RCA 108.81 APO 150.20 V2 34.813
 RC 84.153 GL 21.87 GP 7.05 ZAL 48.94 ZAP 95.91 ETS 1.88 ZAE 160.21 ETE 163.39 ZAC 98.60 ETC 165.54 CLP -95.96

PLANETOCENTRIC CONIC

C3 14.501 VHL 3.808 DLA 30.61 RAL 16.05 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 2.818 DPA 5.95 RAP 4.02 ECC 1.2386
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.87 23 53 32 3775.11 -23.01 152.18 240.19 69.24 24 56 27 3175.1 -25.63 144.30
 102.13 3 11 49 3149.60 -23.00 106.07 240.19 69.23 4 4 18 2549.6 -25.62 98.19
 77.87 23 53 32 3775.11 -23.01 152.18 240.19 69.24 24 56 27 3175.1 -25.63 144.30
 102.13 3 11 49 3149.60 -23.00 106.07 240.19 69.23 4 4 18 2549.6 -25.62 98.19
 110.00 6 1 35 2618.98 -32.89 68.79 243.25 80.12 6 45 14 2019.0 -33.91 59.70
 110.00 2 6 52 3353.73 -13.80 116.74 235.43 58.41 3 2 46 2753.7 -17.88 110.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7756 TRA .6789 TC3 -1.3912 BAU .2790 SGT 1973.1 SGR 650.7 SG3 2032.1 ST 1220.6 SR 237.0 SS 3435.9
 RDE -.1104 RRA -.3219 RC3 .3691 FAU .17911 RRT -.9033 RRF -.9454 RTF .9692 CRT -.8788 CRS .9187 CST -.9958
 FDE 8.6815 FRA10.1721 FC-10.6929 BSP 5126 SGB 2077.6 R23 .1247 R13 -.9749 LSA 3651.2 MSA 142.2 SSA 10.1
 BDE .7835 BRA .7514 BC3 1.4393 FSP -6710 SG1 2060.3 SG2 267.4 THA 163.12 EL1 1238.3 EL2 111.4 ALF 170.24

LAUNCH DATE DEC 4 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 486.940

RL 147.43 LAL -.00 LOL 71.91 VL 27.851 GAL 4.69 AZL 87.02 MCA 213.37 SMA 129.51 ECC .16030 INC 2.9814 V1 30.221
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.593 GAP 1.02 AZP 92.49 TAL 154.03 TAP 7.40 RCA 108.75 APO 150.27 V2 34.807
 RC 86.508 GL 22.10 GP 6.37 ZAL 48.78 ZAP 101.44 ETS 2.31 ZAE 156.52 ETE 167.50 ZAC 96.49 ETC 165.85 CLP -101.51

PLANETOCENTRIC CONIC

C3 14.729 VHL 3.838 DLA 30.92 RAL 16.21 RAD 6567.6 VEL 11.667 PTH 2.05 VHP 2.853 DPA 4.34 RAP 2.14 ECC 1.2424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.02 23 48 2 3797.99 -23.15 153.96 240.68 68.91 24 51 20 3198.0 -25.81 146.08
 102.98 3 18 35 3133.66 -23.14 104.93 240.68 68.89 4 10 49 2533.7 -25.80 97.06
 77.02 23 48 2 3797.99 -23.15 153.96 240.68 68.91 24 51 20 3198.0 -25.81 146.08
 102.98 3 18 35 3133.66 -23.14 104.93 240.68 68.89 4 10 49 2533.7 -25.80 97.06
 110.00 5 57 0 2639.65 -32.64 70.35 243.74 79.23 6 40 59 2039.6 -33.78 61.30
 110.00 2 12 44 3340.00 -14.29 115.98 236.08 58.61 3 8 24 2740.0 -18.34 109.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9763 TRA .9006 TC3 -1.6079 BAU .3236 SGT 2470.6 SGR 581.8 SG3 1969.4 ST 1532.0 SR 187.1 SS 3374.3
 RDE -.0723 RRA -.2923 RC3 .3398 FAU .17424 RRT -.8881 RRF -.9191 RTF .9800 CRT -.8002 CRS .8430 CST -.9971
 FDE 8.4868 FRA 9.9070 FC-10.2412 BSP 6642 SGB 2538.2 R23 .0846 R13 -.9821 LSA 3707.6 MSA 147.0 SSA 10.3
 BDE .9790 BRA .9468 BC3 1.6434 FSP -6601 SG1 2524.7 SG2 261.7 THA 168.06 EL1 1539.3 EL2 111.7 ALF 174.39

LAUNCH DATE DEC 4 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

RL 147.43 LAL -1.00 LOL 71.91 VL 27.849 GAL 4.76 AZL 86.97 HCA 216.53 SMA 129.50 ECC .16100 INC 3.0261 V1 30.221
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.587 GAP 1.42 AZP 92.43 TAL 153.74 TAP 10.27 RCA 108.65 APO 150.35 V2 34.802
 RC 88.877 GL 22.23 GP 5.76 ZAL 48.55 ZAP 106.76 ETS 2.63 ZAE 152.90 ETE 170.24 ZAC 94.57 ETC 166.07 CLP-106.85

PLANETOCENTRIC CONIC

C3 14.993 VHL 3.872 DLA 31.17 RAL 16.47 RAD 6567.6 VEL 11.678 PTH 2.05 VHP 2.912 OPA 2.89 RAP .42 ECC 1.2467
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.39 23 44 34 3816.07 -23.23 155.35 241.28 68.61 24 48 10 3216.1 -25.93 147.49
 103.61 3 24 4 3123.51 -23.22 104.20 241.28 68.60 4 16 8 2523.5 -25.92 96.34
 76.39 23 44 34 3816.07 -23.23 155.35 241.28 68.61 24 48 10 3216.1 -25.93 147.49
 103.61 3 24 4 3123.51 -23.22 104.20 241.28 68.60 4 16 8 2523.5 -25.92 96.34
 110.00 5 53 44 2657.55 -32.40 71.69 244.35 78.47 6 38 1 2057.6 -33.65 62.68
 110.00 2 18 0 3330.03 -14.64 115.42 236.80 58.76 3 13 30 2730.0 -18.67 108.62

DIFFERENTIAL CORRECTIONS

TOE 1.1697 TRA 1.1163 TC3-1.8073 BAU .3677
 ROE -.0368 RRA -.2667 RC3 .3136 FAU .16682
 FDE 8.1693 FRA 9.5423 FC3-9.6328 BSP 8183
 BOE 1.1702 BRA 1.1477 BC3 .8343 FSP -6392

MID-COURSE EXECUTION ACCURACY

SGT 2946.4 SGR 524.1 SG3 1881.3
 RRT -.8577 RRF -.8834 RTF .9854
 SGB 2992.6 R23 .0607 R13 -.9864
 SG1 2980.7 SG2 266.4 THA 171.25

ORBIT DETERMINATION ACCURACY

ST 1825.6 SR 148.9 SS 3286.6
 CRT -.6425 CRS .6913 CST -.9978
 LSA 3759.5 MSA 151.3 SSA 10.5
 EL1 1828.1 EL2 113.9 ALF 176.99

LAUNCH DATE DEC 4 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

RL 147.43 LAL -1.00 LOL 71.91 VL 27.846 GAL 4.84 AZL 86.94 HCA 219.69 SMA 129.47 ECC .16193 INC 3.0647 V1 30.221
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.580 GAP 1.82 AZP 92.36 TAL 153.41 TAP 13.10 RCA 108.51 APO 150.44 V2 34.797
 RC 91.256 GL 22.29 GP 5.23 ZAL 48.25 ZAP 111.82 ETS 2.88 ZAE 149.43 ETE 172.13 ZAC 92.87 ETC 166.21 CLP-111.92

PLANETOCENTRIC CONIC

C3 15.297 VHL 3.911 DLA 31.36 RAL 16.80 RAD 6567.6 VEL 11.691 PTH 2.06 VHP 2.991 OPA 1.62 RAP 358.91 ECC 1.2517
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.92 23 42 38 3830.88 -23.25 156.48 241.99 68.34 24 46 29 3230.9 -25.99 148.62
 104.08 3 28 41 3117.70 -23.24 103.77 241.98 68.33 4 20 38 2517.7 -25.98 95.92
 75.92 23 42 38 3830.88 -23.25 156.48 241.99 68.34 24 46 29 3230.9 -25.99 148.62
 104.08 3 28 41 3117.70 -23.24 103.77 241.98 68.33 4 20 38 2517.7 -25.98 95.92
 110.00 5 51 40 2673.14 -32.19 72.86 245.05 77.81 6 36 13 2073.1 -33.53 63.88
 110.00 2 22 45 3323.44 -14.87 115.05 237.59 58.86 3 18 9 2723.4 -18.89 108.24

DIFFERENTIAL CORRECTIONS

TOE 1.3525 TRA 1.3242 TC3-1.9855 BAU .4104
 ROE -.0038 RRA -.2446 RC3 .2904 FAU .15767
 FDE 7.7626 FRA 9.1063 FC3-8.9236 BSP 9687
 BOE 1.3525 BRA 1.3466 BC3 2.0067 FSP -6115

MID-COURSE EXECUTION ACCURACY

SGT 3390.9 SGR 477.3 SG3 1775.1
 RRT -.8139 RRF -.8368 RTF .9884
 SGB 3424.4 R23 .0464 R13 -.9889
 SG1 3413.3 SG2 275.5 THA 173.42

ORBIT DETERMINATION ACCURACY

ST 2095.8 SR 126.2 SS 3179.0
 CRT -.3672 CRS .4217 CST -.9982
 LSA 3806.6 MSA 155.4 SSA 10.7
 EL1 2096.3 EL2 117.4 ALF 178.73

LAUNCH DATE DEC 4 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

RL 147.43 LAL -1.00 LOL 71.91 VL 27.841 GAL 4.94 AZL 86.90 HCA 222.86 SMA 129.44 ECC .16307 INC 3.0983 V1 30.221
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.573 GAP 2.21 AZP 92.27 TAL 153.04 TAP 15.90 RCA 108.33 APO 150.55 V2 34.793
 RC 93.644 GL 22.27 GP 4.75 ZAL 47.89 ZAP 116.59 ETS 3.07 ZAE 146.18 ETE 173.46 ZAC 91.44 ETC 166.29 CLP-116.69

PLANETOCENTRIC CONIC

C3 15.645 VHL 3.955 DLA 31.50 RAL 17.21 RAD 6567.6 VEL 11.706 PTH 2.06 VHP 3.090 OPA .53 RAP 357.65 ECC 1.2575
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.58 23 41 54 3843.43 -23.22 157.42 242.79 68.09 24 45 57 3243.4 -25.99 149.57
 104.42 3 32 42 3115.29 -23.21 103.58 242.79 68.08 4 24 38 2515.3 -25.98 95.74
 75.58 23 41 54 3843.43 -23.22 157.42 242.79 68.09 24 45 57 3243.4 -25.99 149.57
 104.42 3 32 42 3115.29 -23.21 103.58 242.79 68.08 4 24 38 2515.3 -25.98 95.74
 110.00 5 50 41 2686.73 -31.99 73.87 245.87 77.25 6 35 27 2086.7 -33.41 64.93
 110.00 2 27 2 3319.98 -15.00 114.86 238.46 58.92 3 22 22 2720.0 -19.00 108.03

DIFFERENTIAL CORRECTIONS

TOE 1.5256 TRA 1.5268 TC3-2.1342 BAU .4499
 ROE .0265 RRA -.2261 RC3 .2693 FAU .14660
 FDE 7.3161 FRA 8.6471 FC3-8.1124 BSP 11065
 BOE 1.5258 BRA 1.5434 BC3 2.1511 FSP -5751

MID-COURSE EXECUTION ACCURACY

SGT 3803.0 SGR 441.0 SG3 1660.4
 RRT -.7582 RRF -.7794 RTF .9901
 SGB 3828.5 R23 .0375 R13 -.9904
 SG1 3817.8 SG2 286.4 THA 174.95

ORBIT DETERMINATION ACCURACY

ST 2343.5 SR 121.6 SS 3064.4
 CRT -.0184 CRS .0736 CST -.9984
 LSA 3856.4 MSA 159.4 SSA 11.3
 EL1 2343.5 EL2 121.6 ALF 179.94

LAUNCH DATE DEC 4 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

RL 147.43 LAL -1.00 LOL 71.91 VL 27.835 GAL 5.06 AZL 86.87 HCA 226.02 SMA 129.40 ECC .16443 INC 3.1282 V1 30.221
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.565 GAP 2.61 AZP 92.17 TAL 152.63 TAP 18.65 RCA 108.12 APO 150.67 V2 34.789
 RC 96.038 GL 22.20 GP 4.32 ZAL 47.48 ZAP 121.05 ETS 3.22 ZAE 143.17 ETE 174.42 ZAC 90.29 ETC 166.32 CLP-121.14

PLANETOCENTRIC CONIC

C3 16.040 VHL 4.005 DLA 31.60 RAL 17.70 RAD 6567.6 VEL 11.723 PTH 2.07 VHP 3.206 OPA -.38 RAP 356.64 ECC 1.2640
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.34 23 42 10 3854.27 -23.15 158.20 243.70 67.86 24 46 25 3254.3 -25.95 150.38
 104.66 3 36 17 3115.77 -23.14 103.58 243.69 67.85 4 28 13 2515.8 -25.94 95.76
 75.34 23 42 10 3854.27 -23.15 158.20 243.70 67.86 24 46 25 3254.3 -25.95 150.38
 104.66 3 36 17 3115.77 -23.14 103.58 243.69 67.85 4 28 13 2515.8 -25.94 95.76
 110.00 5 50 42 2698.56 -31.81 74.74 246.80 76.76 6 35 40 2098.6 -33.30 65.83
 110.00 2 30 52 3319.47 -15.01 114.83 239.39 58.92 3 26 12 2719.5 -19.02 108.00

DIFFERENTIAL CORRECTIONS

TOE 1.6844 TRA 1.7200 TC3-2.2604 BAU .4877
 ROE .0548 RRA -.2102 RC3 .2513 FAU .13566
 FDE 6.8300 FRA 8.1574 FC3-7.3220 BSP 12389
 BOE 1.6853 BRA 1.7328 BC3 2.2744 FSP -5398

MID-COURSE EXECUTION ACCURACY

SGT 4175.1 SGR 413.9 SG3 1539.8
 RRT -.6919 RRF -.7120 RTF .9912
 SGB 4195.6 R23 .0315 R13 -.9913
 SG1 4185.0 SG2 298.1 THA 176.06

ORBIT DETERMINATION ACCURACY

ST 2561.4 SR 131.9 SS 2936.5
 CRT .2864 CRS -.2356 CST -.9986
 LSA 3895.4 MSA 163.2 SSA 11.0
 EL1 2561.7 EL2 126.4 ALF .85

LAUNCH DATE DEC 4 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 518.011

RL 147.43 LAL -.00 LOL 71.91 VL 27.827 GAL 5.19 AZL 86.84 MCA 229.18 SMA 129.34 ECC .16602 INC 3.1550 V1 30.221
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.557 GAP 3.00 AZP 92.06 TAL 152.19 TAP 21.37 RCA 107.87 APO 150.82 V2 34.787
 RC 98.436 GL 22.06 GP 3.95 ZAL 47.01 ZAP 125.19 ETS 3.34 ZAE 140.42 ETE 175.13 ZAC 89.43 ETC 166.34 CLP-125.29

PLANETOCENTRIC CONIC

C3 16.487 VHL 4.060 DLA 31.67 RAL 18.25 RAD 6567.7 VEL 11.742 PTH 2.07 VHP 3.338 DPA -1.13 RAP 355.90 ECC 1.2713
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.19 23 43 20 3863.80 -23.03 158.87 244.70 67.64 24 47 44 3263.8 -25.86 151.07
 104.81 3 39 32 3118.78 -23.02 103.76 244.69 67.63 4 31 30 2518.8 -25.85 95.95
 75.19 23 43 20 3863.80 -23.03 158.87 244.70 67.64 24 47 44 3263.8 -25.86 151.07
 104.81 3 39 32 3118.78 -23.02 103.76 244.69 67.63 4 31 30 2518.8 -25.85 95.95
 110.00 5 51 39 2708.85 -31.64 75.50 247.84 76.34 6 36 48 2108.8 -33.20 66.62
 110.00 2 34 19 3321.73 -14.94 114.95 240.39 58.89 3 29 40 2721.7 -18.95 108.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.8317 TRA 1.9077 TC3-2.3590 BAU .5226 SGT 4511.5 SGR 394.9 SG3 1420.4 ST 2753.9 SR 150.7 SS 2807.3
 RDE .0811 RRA -.1967 RC3 .2353 FAU .12445 RRT -.6184 RRF -.6376 RTF .9917 CRT .4882 CRS -.4432 CST -.9987
 FDE 6.3453 FRA 7.6758 FC3-6.5347 BSP 13589 SGB 4528.8 R23 .0272 R13 -.9919 LSA 3931.9 MSA 166.9 SSA 11.3
 BOE 1.8335 BRA 1.9178 BC3 2.3707 FSP -5022 SG1 4518.2 SG2 309.9 THA 176.89 EL1 2754.8 EL2 131.4 ALF 1.53

LAUNCH DATE DEC 4 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 524.156

RL 147.43 LAL -.00 LOL 71.91 VL 27.818 GAL 5.33 AZL 86.82 MCA 232.34 SMA 129.28 ECC .16784 INC 3.1794 V1 30.221
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.548 GAP 3.39 AZP 91.94 TAL 151.71 TAP 24.05 RCA 107.58 APO 150.98 V2 34.785
 RC 100.837 GL 21.88 GP 3.61 ZAL 46.48 ZAP 129.04 ETS 3.45 ZAE 137.93 ETE 175.65 ZAC 88.85 ETC 166.33 CLP-129.14

PLANETOCENTRIC CONIC

C3 16.991 VHL 4.122 DLA 31.70 RAL 18.86 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 3.484 DPA -1.71 RAP 355.41 ECC 1.2796
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.12 23 45 16 3872.32 -22.88 159.45 245.79 67.43 24 49 48 3272.3 -25.73 151.66
 104.88 3 42 29 3124.09 -22.86 104.09 245.79 67.42 4 34 33 2524.1 -25.72 96.31
 75.12 23 45 16 3872.32 -22.88 159.45 245.79 67.43 24 49 48 3272.3 -25.73 151.66
 104.88 3 42 29 3124.09 -22.86 104.09 245.79 67.42 4 34 33 2524.1 -25.72 96.31
 110.00 5 53 29 2717.76 -31.50 76.15 248.99 75.98 6 38 46 2117.8 -33.10 67.30
 110.00 2 37 23 3326.64 -14.76 115.23 241.45 58.81 3 32 49 2726.6 -18.78 108.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.9675 TRA 2.0913 TC3-2.4315 BAU .5546 SGT 4813.6 SGR 382.6 SG3 1305.5 ST 2921.1 SR 172.9 SS 2678.6
 RDE .1058 RRA -.1853 RC3 .2208 FAU .11344 RRT -.5415 RRF -.5597 RTF .9920 CRT .6111 CRS -.5709 CST -.9987
 FDE 5.8738 FRA 7.2150 FC3-5.7798 BSP 14688 SGB 4828.8 R23 .0239 R13 -.9921 LSA 3963.4 MSA 170.6 SSA 11.6
 BOE 1.9703 BRA 2.0995 BC3 2.4415 FSP -4651 SG1 4818.1 SG2 321.4 THA 177.52 EL1 2923.1 EL2 136.8 ALF 2.08

LAUNCH DATE DEC 4 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 530.279

RL 147.43 LAL -.00 LOL 71.91 VL 27.808 GAL 5.49 AZL 86.80 MCA 235.50 SMA 129.21 ECC .16989 INC 3.2018 V1 30.221
 RP 108.95 LAP -2.64 LOP 307.37 VP 37.540 GAP 3.79 AZP 91.81 TAL 151.19 TAP 26.69 RCA 107.26 APO 151.16 V2 34.784
 RC 103.240 GL 21.65 GP 3.32 ZAL 45.91 ZAP 132.61 ETS 3.55 ZAE 135.69 ETE 176.06 ZAC 88.54 ETC 166.32 CLP-132.70

PLANETOCENTRIC CONIC

C3 17.557 VHL 4.190 DLA 31.70 RAL 19.53 RAD 6567.7 VEL 11.787 PTH 2.08 VHP 3.644 DPA -2.14 RAP 355.17 ECC 1.2889
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.11 23 47 54 3880.00 -22.68 159.94 246.98 67.23 24 52 34 3280.0 -25.58 152.18
 104.89 3 45 11 3131.55 -22.67 104.56 246.97 67.22 4 37 23 2531.5 -25.55 96.81
 75.11 23 47 54 3880.00 -22.68 159.94 246.98 67.23 24 52 34 3280.0 -25.56 152.18
 104.89 3 45 11 3131.55 -22.67 104.56 246.97 67.22 4 37 23 2531.5 -25.55 96.81
 110.00 5 56 6 2725.48 -31.37 76.72 250.25 75.66 6 41 32 2125.5 -33.02 67.88
 110.00 2 40 6 3334.07 -14.50 115.65 242.58 58.70 3 35 40 2734.1 -18.54 108.86

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.0958 TRA 2.2746 TC3-2.4740 BAU .5827 SGT 5086.8 SGR 375.5 SG3 1197.8 ST 3069.1 SR 195.8 SS 2556.9
 RDE .1290 RRA -.1757 RC3 .2073 FAU .10246 RRT -.4642 RRF -.4811 RTF .9921 CRT .6863 CRS -.6499 CST -.9988
 FDE 5.4353 FRA 6.7880 FC3-5.0525 BSP 15630 SGB 5100.6 R23 .0210 R13 -.9921 LSA 3995.6 MSA 174.2 SSA 11.8
 BOE 2.0997 BRA 2.2813 BC3 2.4826 FSP -4273 SG1 5089.8 SG2 332.4 THA 178.03 EL1 3072.0 EL2 142.2 ALF 2.51

LAUNCH DATE DEC 4 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 536.376

RL 147.43 LAL -.00 LOL 71.91 VL 27.797 GAL 5.67 AZL 86.78 MCA 238.66 SMA 129.13 ECC .17217 INC 3.2225 V1 30.221
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.531 GAP 4.19 AZP 91.68 TAL 150.64 TAP 29.30 RCA 106.90 APO 151.36 V2 34.783
 RC 105.643 GL 21.38 GP 3.05 ZAL 45.30 ZAP 135.91 ETS 3.64 ZAE 133.67 ETE 176.37 ZAC 88.47 ETC 166.32 CLP-135.99

PLANETOCENTRIC CONIC

C3 18.190 VHL 4.265 DLA 31.68 RAL 20.25 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 3.815 DPA -2.43 RAP 355.15 ECC 1.2994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.17 23 51 11 3887.00 -22.44 160.37 248.25 67.04 24 55 58 3287.0 -25.36 152.63
 104.83 3 47 40 3141.05 -22.43 105.18 248.25 67.02 4 40 1 2541.0 -25.35 97.44
 75.17 23 51 11 3887.00 -22.44 160.37 248.25 67.04 24 55 58 3287.0 -25.36 152.63
 104.83 3 47 40 3141.05 -22.43 105.18 248.25 67.02 4 40 1 2541.0 -25.35 97.44
 110.00 5 59 28 2732.15 -31.26 77.21 251.61 75.40 6 45 1 2132.2 -32.94 68.39
 110.00 2 42 29 3343.89 -14.15 116.19 243.77 58.55 3 38 13 2743.9 -18.21 109.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.2123 TRA 2.4545 TC3-2.4989 BAU .6095 SGT 5328.1 SGR 372.4 SG3 1096.6 ST 3191.8 SR 218.3 SS 2435.1
 RDE .1514 RRA -.1671 RC3 .1951 FAU .09261 RRT -.3892 RRF -.4048 RTF .9920 CRT .7351 CRS -.7013 CST -.9988
 FDE 5.0162 FRA 6.3837 FC3-4.4077 BSP 16333 SGB 5341.1 R23 .0185 R13 -.9921 LSA 4016.6 MSA 177.8 SSA 12.0
 BOE 2.2174 BRA 2.4602 BC3 2.5065 FSP -3937 SG1 5330.1 SG2 342.9 THA 178.44 EL1 3195.9 EL2 147.8 ALF 2.88

LAUNCH DATE DEC 4 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 147.43 LAL -.00 LOL 71.91 VL 27.785 GAL 5.87 AZL 86.76 HCA 241.83 SMA 129.05 ECC .17471 INC 3.2420 V1 30.221
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.522 GAP 4.59 AZP 91.53 TAL 150.06 TAP 31.88 RCA 106.50 APO 151.59 V2 34.783
 RC 108.045 GL 21.07 GP 2.82 ZAL 44.64 ZAP 138.97 ETS 3.74 ZAE 131.86 ETE 176.61 ZAC 88.63 ETC 166.31 CLP-139.05

DISTANCE 542.448

PLANETOCENTRIC CONIC
 C3 18.897 VHL 4.347 DLA 31.63 RAL 21.02 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 3.999 DPA -2.60 RAP 355.34 ECC 1.3110
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.29 23 55 4 3893.40 -22.17 160.73 249.61 66.85 24 59 58 3293.4 -25.11 153.02
 104.71 3 49 56 3152.54 -22.16 105.92 249.61 66.84 4 42 29 2552.5 -25.10 98.22
 75.29 23 55 4 3893.40 -22.17 160.73 249.61 66.85 24 59 58 3293.4 -25.11 153.02
 104.71 3 49 56 3152.54 -22.16 105.92 249.61 66.84 4 42 29 2552.5 -25.10 98.22
 110.00 6 3 31 2737.95 -31.16 77.63 253.07 75.17 6 49 9 2138.0 -32.88 68.83
 110.00 2 44 35 3355.98 -13.72 116.87 245.02 58.38 3 40 31 2756.0 -17.80 110.13

DIFFERENTIAL CORRECTIONS
 TDE 2.3204 TRA 2.6347 TC3-2.5031 BAU .6341 SGT 5542.8 SGR 372.1 SG3 1003.4 ST 3294.7 SR 239.9 SS 2318.1
 RDE .1731 RRA -.1595 RC3 .1835 FAU .08349 RRT -.3181 RRF -.3323 RTF .9919 CRT .7678 CRS -.7359 CST -.9988
 FDE 4.6283 FRA 6.0122 FC3-3.8251 BSP 17354 SGB 5555.2 R23 .0163 R13 -.9919 LSA 4031.5 MSA 181.5 SSA 12.2
 BDE 2.3269 BRA 2.6395 BC3 2.5098 FSP -3624 SG1 5544.0 SG2 352.7 THA 178.77 EL1 3299.8 EL2 153.5 ALF 3.21

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 4 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC
 RL 147.43 LAL -.00 LOL 71.91 VL 27.772 GAL 6.08 AZL 86.74 HCA 244.99 SMA 128.95 ECC .17750 INC 3.2603 V1 30.221
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.514 GAP 5.00 AZP 91.38 TAL 149.45 TAP 34.43 RCA 106.07 APO 151.84 V2 34.784
 RC 110.446 GL 20.73 GP 2.62 ZAL 43.95 ZAP 141.81 ETS 3.84 ZAE 130.25 ETE 176.81 ZAC 89.00 ETC 166.31 CLP-141.88

DISTANCE 548.494

PLANETOCENTRIC CONIC
 C3 19.686 VHL 4.437 DLA 31.55 RAL 21.84 RAD 6567.8 VEL 11.877 PTH 2.11 VHP 4.193 DPA -2.66 RAP 355.72 ECC 1.3240
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.46 0 3 27 3899.26 -21.86 161.03 251.06 66.66 1 8 27 3299.3 -24.83 153.35
 104.54 3 51 58 3166.00 -21.85 106.80 251.05 66.65 4 44 44 2566.0 -24.82 99.12
 75.46 0 3 27 3899.26 -21.86 161.03 251.06 66.66 1 8 27 3299.3 -24.83 153.35
 104.54 3 51 58 3166.00 -21.85 106.80 251.05 66.65 4 44 44 2566.0 -24.82 99.12
 110.00 6 8 11 2743.03 -31.07 78.00 254.63 74.96 6 53 54 2143.0 -32.82 69.21
 110.00 2 46 25 3370.24 -13.21 117.66 246.33 58.18 3 42 35 2770.2 -17.32 110.96

DIFFERENTIAL CORRECTIONS
 TDE 2.4224 TRA 2.8182 TC3-2.4868 BAU .6560 SGT 5735.4 SGR 373.7 SG3 918.5 ST 3381.1 SR 260.3 SS 2208.0
 RDE .1943 RRA -.1524 RC3 .1723 FAU .07498 RRT -.2515 RRF -.2641 RTF .9916 CRT .7904 CRS -.7600 CST -.9988
 FDE 4.2751 FRA 5.6758 FC3-3.2977 BSP 18091 SGB 5747.5 R23 .0142 R13 -.9916 LSA 4042.3 MSA 185.1 SSA 12.4
 BDE 2.4302 BRA 2.8223 BC3 2.4928 FSP -3331 SG1 5736.2 SG2 361.6 THA 179.06 EL1 3387.4 EL2 159.1 ALF 3.49

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 4 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC
 RL 147.43 LAL -.00 LOL 71.91 VL 27.758 GAL 6.31 AZL 86.72 HCA 248.15 SMA 128.86 ECC .18056 INC 3.2776 V1 30.221
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.505 GAP 5.42 AZP 91.22 TAL 148.80 TAP 36.95 RCA 105.59 APO 152.12 V2 34.786
 RC 112.844 GL 20.36 GP 2.43 ZAL 43.23 ZAP 144.45 ETS 3.95 ZAE 128.81 ETE 176.97 ZAC 89.55 ETC 166.32 CLP-144.52

DISTANCE 554.511

PLANETOCENTRIC CONIC
 C3 20.564 VHL 4.535 DLA 31.46 RAL 22.69 RAD 6567.8 VEL 11.914 PTH 2.12 VHP 4.398 DPA -2.62 RAP 356.27 ECC 1.3384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.70 0 8 28 3904.63 -21.52 161.27 252.58 66.49 1 13 32 3304.6 -24.51 153.63
 104.30 3 53 46 3181.45 -21.51 107.81 252.57 66.47 4 46 47 2581.4 -24.50 100.16
 75.70 0 8 28 3904.63 -21.52 161.27 252.58 66.49 1 13 32 3304.6 -24.51 153.63
 104.30 3 53 46 3181.45 -21.51 107.81 252.57 66.47 4 46 47 2581.4 -24.50 100.16
 110.00 6 13 25 2747.53 -30.99 78.32 256.28 74.79 6 59 12 2147.5 -32.76 69.55
 110.00 2 47 59 3386.54 -12.62 118.55 247.69 57.97 3 44 26 2786.5 -16.77 111.89

DIFFERENTIAL CORRECTIONS
 TDE 2.5188 TRA 3.0055 TC3-2.4531 BAU .6759 SGT 5907.2 SGR 376.6 SG3 841.3 ST 3452.0 SR 279.4 SS 2103.8
 RDE .2151 RRA -.1457 RC3 .1612 FAU .06720 RRT -.1894 RRF -.2004 RTF .9913 CRT .8067 CRS -.7774 CST -.9988
 FDE 3.9532 FRA 5.3705 FC3-2.8291 BSP 18755 SGB 5919.2 R23 .0121 R13 -.9913 LSA 4047.8 MSA 188.8 SSA 12.5
 BDE 2.5280 BRA 3.0091 BC3 2.4584 FSP -3062 SG1 5907.6 SG2 369.8 THA 179.31 EL1 3459.4 EL2 164.7 ALF 3.74

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 4 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC
 RL 147.43 LAL -.00 LOL 71.91 VL 27.743 GAL 6.56 AZL 86.71 HCA 251.31 SMA 128.75 ECC .18391 INC 3.2943 V1 30.221
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.496 GAP 5.84 AZP 91.06 TAL 148.14 TAP 39.45 RCA 105.08 APO 152.43 V2 34.789
 RC 115.239 GL 19.95 GP 2.27 ZAL 42.47 ZAP 146.91 ETS 4.07 ZAE 127.52 ETE 177.11 ZAC 90.27 ETC 166.33 CLP-146.98

DISTANCE 560.500

PLANETOCENTRIC CONIC
 C3 21.543 VHL 4.641 DLA 31.34 RAL 23.58 RAD 6567.9 VEL 11.955 PTH 2.13 VHP 4.614 DPA -2.48 RAP 356.98 ECC 1.3545
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.98 0 14 0 3909.50 -21.14 161.46 254.18 66.31 1 19 10 3309.5 -24.16 153.85
 104.02 3 55 18 3198.91 -21.12 108.95 254.17 66.30 4 48 37 2598.9 -24.15 101.34
 75.98 0 14 0 3909.50 -21.14 161.46 254.18 66.31 1 19 10 3309.5 -24.16 153.85
 104.02 3 55 18 3198.91 -21.12 108.95 254.17 66.30 4 48 37 2598.9 -24.15 101.34
 110.00 6 19 8 2751.62 -30.91 78.62 258.03 74.62 7 5 0 2151.6 -32.71 69.86
 110.00 2 49 21 3404.79 -11.96 119.55 249.10 57.74 3 46 5 2804.8 -16.14 112.93

DIFFERENTIAL CORRECTIONS
 TDE 2.6135 TRA 3.2018 TC3-2.3975 BAU .6919 SGT 6064.2 SGR 380.2 SG3 771.9 ST 3512.8 SR 297.2 SS 2008.7
 RDE .2357 RRA -.1392 RC3 .1502 FAU .05975 RRT -.1311 RRF -.1403 RTF .9908 CRT .8187 CRS -.7903 CST -.9988
 FDE 3.6670 FRA 5.1009 FC3-2.4010 BSP 19281 SGB 6076.1 R23 .0099 R13 -.9908 LSA 4052.9 MSA 192.3 SSA 12.7
 BDE 2.6241 BRA 3.2048 BC3 2.4022 FSP -2802 SG1 6064.4 SG2 376.9 THA 179.53 EL1 3521.2 EL2 170.3 ALF 3.97

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 4 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 566.457

RL 147.43 LAL -0.00 LOL 71.91 VL 27.727 GAL 6.84 AZL 86.69 MCA 254.47 SMA 128.65 ECC .18755 INC 3.3103 V1 30.221
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.487 GAP 6.27 AZP 90.89 TAL 147.44 TAP 41.92 RCA 104.52 APO 152.77 V2 34.792
 RC 117.630 GL 19.52 GP 2.13 ZAL 41.68 ZAP 149.22 ETS 4.20 ZAE 126.36 ETE 177.22 ZAC 91.13 ETC 166.35 CLP-149.29

PLANETOCENTRIC CONIC

C3 22.633 VHL 4.757 DLA 31.20 RAL 24.49 RAD 6567.9 VEL 12.001 PTH 2.14 VHP 4.841 DPA -2.26 RAP 357.82 ECC 1.3725
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.33 0 20 5 3913.81 -20.72 161.59 255.85 66.14 1 25 19 3313.8 -23.77 154.01
 103.67 3 56 31 3218.50 -20.71 110.23 255.84 66.13 4 50 10 2618.5 -23.76 102.66
 76.33 0 20 5 3913.81 -20.72 161.59 255.85 66.14 1 25 19 3313.8 -23.77 154.01
 103.67 3 56 31 3218.50 -20.71 110.23 255.84 66.13 4 50 10 2618.5 -23.76 102.66
 110.00 6 25 17 2755.43 -30.84 78.90 259.87 74.48 7 11 13 2155.4 -32.66 70.15
 110.00 2 50 29 3424.88 -11.23 120.65 250.57 57.50 3 47 34 2824.9 -15.44 114.07

DIFFERENTIAL CORRECTIONS

TOE 2.7009 TRA 3.4014 TC3-2.3346 BAU .7077
 RDE .2564 RRA -.1324 RC3 .1395 FAU .05331
 FDE 3.4014 FRA 4.8522 FC3-2.0392 BSP 19831
 BOE 2.7131 BRA 3.4040 BC3 2.3388 FSP -2580

MID-COURSE EXECUTION ACCURACY

SGT 6200.9 SGR 384.3 SG3 708.4
 RRT -.0769 RRF -.0845 RTF .9904
 SGB 6212.8 R23 .0081 R13 -.9904
 SG1 6200.9 SG2 383.2 THA 179.73

ORBIT DETERMINATION ACCURACY

ST 3556.6 SR 313.8 SS 1916.1
 CRT .8276 CRS -.8000 CST -.9988
 LSA 4047.4 MSA 195.9 SSA 12.7
 EL1 3566.1 EL2 175.6 ALF 4.19

LAUNCH DATE DEC 4 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 572.380

RL 147.43 LAL -0.00 LOL 71.91 VL 27.711 GAL 7.13 AZL 86.67 MCA 257.63 SMA 128.53 ECC .19152 INC 3.3258 V1 30.221
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.479 GAP 6.72 AZP 90.71 TAL 146.73 TAP 44.36 RCA 103.92 APO 153.15 V2 34.796
 RC 120.015 GL 19.07 GP 2.00 ZAL 40.88 ZAP 151.39 ETS 4.35 ZAE 125.32 ETE 177.33 ZAC 92.13 ETC 166.37 CLP-151.46

PLANETOCENTRIC CONIC

C3 23.848 VHL 4.883 DLA 31.04 RAL 25.43 RAD 6568.0 VEL 12.051 PTH 2.15 VHP 5.079 DPA -1.98 RAP 358.78 ECC 1.3925
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.73 0 26 41 3917.59 -20.27 161.66 257.59 65.98 1 31 58 3317.6 -23.34 154.12
 103.27 3 57 26 3240.22 -20.26 111.65 257.58 65.97 4 51 26 2640.2 -23.33 104.11
 76.73 0 26 41 3917.59 -20.27 161.66 257.59 65.98 1 31 58 3317.6 -23.34 154.12
 103.27 3 57 26 3240.22 -20.26 111.65 257.58 65.97 4 51 26 2640.2 -23.33 104.11
 110.00 6 31 50 2759.09 -30.78 79.16 261.78 74.33 7 17 49 2159.1 -32.62 70.42
 110.00 2 51 27 3446.73 -10.43 121.83 252.09 57.26 3 48 54 2846.7 -14.67 115.30

DIFFERENTIAL CORRECTIONS

TOE 2.7853 TRA 3.6097 TC3-2.2592 BAU .7215
 RDE .2770 RRA -.1253 RC3 .1288 FAU .04741
 FDE 3.1615 FRA 4.6292 FC3-1.7212 BSP 20328
 BOE 2.7990 BRA 3.6119 BC3 2.2629 FSP -2377

MID-COURSE EXECUTION ACCURACY

SGT 6322.9 SGR 388.5 SG3 651.0
 RRT -.0259 RRF -.0320 RTF .9900
 SGB 6334.8 R23 .0062 R13 -.9900
 SG1 6322.9 SG2 388.4 THA 179.91

ORBIT DETERMINATION ACCURACY

ST 3589.2 SR 329.1 SS 1829.5
 CRT .8344 CRS -.8073 CST -.9988
 LSA 4037.0 MSA 199.3 SSA 12.8
 EL1 3599.7 EL2 180.9 ALF 4.39

LAUNCH DATE DEC 4 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 578.268

RL 147.43 LAL -0.00 LOL 71.91 VL 27.694 GAL 7.45 AZL 86.66 MCA 260.80 SMA 128.42 ECC .19583 INC 3.3410 V1 30.221
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.471 GAP 7.17 AZP 90.53 TAL 146.00 TAP 46.79 RCA 103.27 APO 153.57 V2 34.800
 RC 122.394 GL 18.59 GP 1.88 ZAL 40.05 ZAP 153.44 ETS 4.52 ZAE 124.39 ETE 177.42 ZAC 93.24 ETC 166.39 CLP-153.50

PLANETOCENTRIC CONIC

C3 25.203 VHL 5.020 DLA 30.86 RAL 26.39 RAD 6568.0 VEL 12.107 PTH 2.17 VHP 5.329 DPA -1.62 RAP 359.85 ECC 1.4148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.19 0 33 48 3920.76 -19.79 161.67 259.40 65.82 1 39 9 3320.8 -22.88 154.17
 102.81 3 57 58 3264.21 -19.77 113.23 259.39 65.81 4 52 22 2664.2 -22.87 105.72
 77.19 0 33 48 3920.76 -19.79 161.67 259.40 65.82 1 39 9 3320.8 -22.88 154.17
 102.81 3 57 58 3264.21 -19.77 113.23 259.39 65.81 4 52 22 2664.2 -22.87 105.72
 110.00 6 38 42 2762.72 -30.71 79.42 263.78 74.19 7 24 44 2162.7 -32.57 70.70
 110.00 2 52 15 3470.24 -9.56 123.10 253.68 57.02 3 50 5 2870.2 -13.84 116.61

DIFFERENTIAL CORRECTIONS

TOE 2.8677 TRA 3.8278 TC3-2.1721 BAU .7329
 RDE .2979 RRA -.1177 RC3 .1183 FAU .04200
 FDE 2.9454 FRA 4.4294 FC3-1.4428 BSP 20770
 BOE 2.8832 BRA 3.8297 BC3 2.1753 FSP -2191

MID-COURSE EXECUTION ACCURACY

SGT 6431.8 SGR 392.6 SG3 599.1
 RRT .0226 RRF .0180 RTF .9896
 SGB 6443.8 R23 -.0045 R13 .9896
 SG1 6431.8 SG2 392.5 THA .08

ORBIT DETERMINATION ACCURACY

ST 3612.1 SR 343.2 SS 1748.7
 CRT .8395 CRS -.8130 CST -.9989
 LSA 4022.7 MSA 202.6 SSA 12.8
 EL1 3623.6 EL2 185.9 ALF 4.57

LAUNCH DATE DEC 4 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 584.115

RL 147.43 LAL -0.00 LOL 71.91 VL 27.677 GAL 7.79 AZL 86.64 MCA 263.96 SMA 128.30 ECC .20051 INC 3.3559 V1 30.221
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.463 GAP 7.64 AZP 90.35 TAL 145.25 TAP 49.21 RCA 102.57 APO 154.02 V2 34.805
 RC 124.766 GL 18.09 GP 1.78 ZAL 39.20 ZAP 155.37 ETS 4.70 ZAE 123.55 ETE 177.51 ZAC 94.46 ETC 166.41 CLP-155.43

PLANETOCENTRIC CONIC

C3 26.715 VHL 5.169 DLA 30.66 RAL 27.37 RAD 6568.1 VEL 12.169 PTH 2.18 VHP 5.592 DPA -1.21 RAP 360.02 ECC 1.4397
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.72 0 41 31 3923.07 -19.27 161.59 261.27 65.67 1 46 54 3323.1 -22.39 154.13
 102.28 3 58 2 3290.72 -19.25 114.97 261.26 65.66 4 52 53 2690.7 -22.37 107.50
 77.72 0 41 31 3923.07 -19.27 161.59 261.27 65.67 1 46 54 3323.1 -22.39 154.13
 102.28 3 58 2 3290.72 -19.25 114.97 261.26 65.66 4 52 53 2690.7 -22.37 107.50
 110.00 6 45 50 2766.44 -30.64 79.69 265.86 74.05 7 31 57 2166.4 -32.52 70.98
 110.00 2 52 53 3495.35 -8.63 124.45 255.26 56.79 3 51 9 2895.4 -12.94 118.00

DIFFERENTIAL CORRECTIONS

TOE 2.9481 TRA 4.0569 TC3-2.0763 BAU .7426
 RDE .3188 RRA -.1095 RC3 .1079 FAU .03708
 FDE 2.7495 FRA 4.2503 FC3-1.2016 BSP 21181
 BOE 2.9652 BRA 4.0583 BC3 2.0791 FSP -2022

MID-COURSE EXECUTION ACCURACY

SGT 6528.3 SGR 396.6 SG3 552.1
 RRT .0688 RRF .0655 RTF .9891
 SGB 6540.4 R23 -.0028 R13 .9891
 SG1 6528.4 SG2 395.6 THA .24

ORBIT DETERMINATION ACCURACY

ST 3625.4 SR 356.0 SS 1673.0
 CRT .8434 CRS -.8174 CST -.9989
 LSA 4003.3 MSA 205.8 SSA 12.8
 EL1 3637.9 EL2 190.6 ALF 4.75

LAUNCH DATE DEC 4 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 589.920

RL 147.43 LAL -0.00 LOL 71.91 VL 27.659 GAL 8.16 AZL 86.63 HCA 267.13 SMA 128.17 ECC .20559 INC 3.3706 V1 30.221
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.455 GAP 8.13 AZP 90.17 TAL 144.48 TAP 51.61 RCA 101.82 APO 154.53 V2 34.811
 RC 127.128 GL 17.58 GP 1.68 ZAL 38.35 ZAP 157.21 ETS 4.91 ZAE 122.79 ETE 177.60 ZAC 95.77 ETC 166.42 CLP-157.26

PLANETOCENTRIC CONIC

C3 28.406 VHL 5.330 DLA 30.45 RAL 28.36 RAD 6568.1 VEL 12.239 PTH 2.20 VHP 5.868 DPA -.75 RAP 2.27 ECC 1.4675
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.32 0 49 49 3924.52 -18.71 161.44 263.19 65.53 1 55 14 3324.5 -21.85 154.01
 101.68 3 57 36 3319.84 -18.70 116.88 263.19 65.52 4 52 56 2719.8 -21.84 109.46
 78.32 0 49 49 3924.52 -18.71 161.44 263.19 65.53 1 55 14 3324.5 -21.85 154.01
 101.68 3 57 36 3319.84 -18.70 116.88 263.19 65.52 4 52 56 2719.8 -21.84 109.46
 110.00 6 53 13 2770.36 -30.57 79.97 268.01 73.89 7 39 24 2170.4 -32.47 71.27
 110.00 2 53 23 3521.99 -7.63 125.87 256.92 56.58 3 52 5 2922.0 -11.97 119.46

DIFFERENTIAL CORRECTIONS

TDE 3.0315 TRA 4.3019 TC3-1.9675 BAU .7481
 RDE .3401 RRA -.1004 RC3 .0978 FAU .03237
 FDE 2.5770 FRA 4.0937 FC3 -.9864 BSP 21463
 BOE 3.0505 BRA 4.3030 BC3 1.9699 FSP -1859

MID-COURSE EXECUTION ACCURACY

SGT 6617.8 SGR 400.2 SC3 510.0
 RRT .1138 RRF .1118 RTF .9886
 SGB 6629.9 R23 -.0011 R13 .9886
 SG1 6618.0 SG2 397.6 THA .40

ORBIT DETERMINATION ACCURACY

ST 3635.2 SR 367.5 SS 1604.9
 CRT .8464 CRS -.8210 CST -.9989
 LSA 3985.2 MSA 208.7 SSA 12.8
 EL1 3648.5 EL2 195.0 ALF 4.90

LAUNCH DATE DEC 4 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 595.676

RL 147.43 LAL -0.00 LOL 71.91 VL 27.640 GAL 8.56 AZL 86.61 HCA 270.29 SMA 128.05 ECC .21110 INC 3.3853 V1 30.221
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.447 GAP 8.64 AZP 89.98 TAL 143.71 TAP 54.00 RCA 101.02 APO 155.08 V2 34.818
 RC 129.481 GL 17.05 GP 1.60 ZAL 37.48 ZAP 158.96 ETS 5.14 ZAE 122.10 ETE 177.68 ZAC 97.16 ETC 166.43 CLP-159.02

PLANETOCENTRIC CONIC

C3 30.300 VHL 5.505 DLA 30.22 RAL 29.35 RAD 6568.2 VEL 12.316 PTH 2.22 VHP 6.158 DPA -.24 RAP 3.59 ECC 1.4987
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.99 0 58 49 3924.66 -18.12 161.16 265.18 65.40 2 4 14 3324.7 -21.29 153.78
 101.01 3 56 32 3352.01 -18.11 119.00 265.17 65.39 4 52 24 2752.0 -21.27 111.61
 78.99 0 58 49 3924.66 -18.12 161.16 265.18 65.40 2 4 14 3324.7 -21.29 153.78
 101.01 3 56 32 3352.01 -18.11 119.00 265.17 65.39 4 52 24 2752.0 -21.27 111.61
 110.00 7 0 47 2774.56 -30.49 80.27 270.22 73.73 7 47 2 2174.6 -32.41 71.58
 110.00 2 53 44 3550.11 -6.57 127.36 258.62 56.38 3 52 55 2950.1 -10.95 121.00

DIFFERENTIAL CORRECTIONS

TDE 3.1104 TRA 4.5565 TC3-1.8579 BAU .7534
 RDE .3615 RRA -.0903 RC3 .0880 FAU .02828
 FDE 2.4164 FRA 3.9497 FC3 -.8080 BSP 21812
 BOE 3.1313 BRA 4.5574 BC3 1.8600 FSP -1721

MID-COURSE EXECUTION ACCURACY

SGT 6692.4 SGR 403.5 SC3 471.3
 RRT .1567 RRF .1557 RTF .9882
 SGB 6704.5 R23 .0004 R13 .9882
 SG1 6692.7 SG2 398.5 THA .54

ORBIT DETERMINATION ACCURACY

ST 3632.7 SR 377.7 SS 1538.8
 CRT .8486 CRS -.8237 CST -.9989
 LSA 3957.5 MSA 211.4 SSA 12.7
 EL1 3646.8 EL2 199.1 ALF 5.06

LAUNCH DATE DEC 4 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 601.379

RL 147.43 LAL -0.00 LOL 71.91 VL 27.621 GAL 8.99 AZL 86.60 HCA 273.46 SMA 127.92 ECC .21708 INC 3.4000 V1 30.221
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.440 GAP 9.17 AZP 89.79 TAL 142.93 TAP 56.39 RCA 100.15 APO 155.69 V2 34.825
 RC 131.823 GL 16.51 GP 1.52 ZAL 36.61 ZAP 160.64 ETS 5.41 ZAE 121.47 ETE 177.76 ZAC 98.62 ETC 166.43 CLP-160.69

PLANETOCENTRIC CONIC

C3 32.426 VHL 5.694 DLA 29.97 RAL 30.35 RAD 6568.3 VEL 12.402 PTH 2.24 VHP 6.465 DPA .31 RAP 4.98 ECC 1.5336
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.76 1 8 35 3923.28 -17.50 160.76 267.22 65.28 2 13 58 3323.3 -20.69 153.41
 100.24 3 54 43 3387.47 -17.48 121.34 267.21 65.27 4 51 11 2787.5 -20.67 114.00
 79.76 1 8 35 3923.28 -17.50 160.76 267.22 65.28 2 13 58 3323.3 -20.69 153.41
 100.24 3 54 43 3387.47 -17.48 121.34 267.21 65.27 4 51 11 2787.5 -20.67 114.00
 110.00 7 8 30 2779.11 -30.40 80.60 272.50 73.56 7 54 50 2179.1 -32.35 71.92
 110.00 2 53 58 3579.64 -5.46 128.91 260.35 56.20 3 53 38 2979.6 -9.86 122.59

DIFFERENTIAL CORRECTIONS

TDE 3.1902 TRA 4.8272 TC3-1.7423 BAU .7560
 RDE .3833 RRA -.0791 RC3 .0785 FAU .02449
 FDE 2.2719 FRA 3.8218 FC3 -.6540 BSP 22116
 BOE 3.2132 BRA 4.8278 BC3 1.7440 FSP -1593

MID-COURSE EXECUTION ACCURACY

SGT 6758.2 SGR 406.4 SC3 436.2
 RRT .1985 RRF .1984 RTF .9879
 SGB 6770.4 R23 .0017 R13 .9879
 SG1 6758.7 SG2 398.3 THA .69

ORBIT DETERMINATION ACCURACY

ST 3624.4 SR 386.6 SS 1477.7
 CRT .8502 CRS -.8259 CST -.9990
 LSA 3927.3 MSA 213.8 SSA 12.6
 EL1 3639.3 EL2 202.7 ALF 5.20

LAUNCH DATE DEC 4 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 607.021

RL 147.43 LAL -0.00 LOL 71.91 VL 27.602 GAL 9.46 AZL 86.59 HCA 276.63 SMA 127.79 ECC .22358 INC 3.4148 V1 30.221
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.433 GAP 9.72 AZP 89.61 TAL 142.14 TAP 58.77 RCA 99.22 APO 156.36 V2 34.833
 RC 134.153 GL 15.95 GP 1.46 ZAL 35.74 ZAP 162.25 ETS 5.70 ZAE 120.88 ETE 177.83 ZAC 100.15 ETC 166.42 CLP-162.31

PLANETOCENTRIC CONIC

C3 34.817 VHL 5.901 DLA 29.70 RAL 31.34 RAD 6568.4 VEL 12.498 PTH 2.26 VHP 6.789 DPA .89 RAP 6.43 ECC 1.5730
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.64 1 19 18 3919.65 -16.85 160.17 269.30 65.17 2 24 37 3319.6 -20.05 152.87
 99.36 3 51 56 3427.00 -16.83 123.96 269.29 65.16 4 49 3 2827.0 -20.04 116.65
 100.00 4 25 23 3320.04 -19.47 117.26 270.53 66.86 5 20 43 2720.0 -22.43 109.71
 100.00 3 28 31 3501.83 -14.24 128.23 268.00 63.44 4 26 53 2901.8 -17.70 121.14
 110.00 7 16 20 2784.10 -30.30 80.95 274.84 73.37 8 2 44 2184.1 -32.28 72.30
 110.00 2 54 4 3610.54 -4.29 130.54 262.13 56.05 3 54 14 3010.5 -8.71 124.25

DIFFERENTIAL CORRECTIONS

TDE 3.2710 TRA 5.1146 TC3-1.6227 BAU .7560
 RDE .4053 RRA -.0667 RC3 .0696 FAU .02101
 FDE 2.1413 FRA 3.7082 FC3 -.5225 BSP 22394
 BOE 3.2960 BRA 5.1150 BC3 1.6242 FSP -1477

MID-COURSE EXECUTION ACCURACY

SGT 6815.1 SGR 408.8 SC3 404.2
 RRT .2392 RRF .2398 RTF .9875
 SGB 6827.3 R23 .0028 R13 .9875
 SG1 6815.8 SG2 396.9 THA .83

ORBIT DETERMINATION ACCURACY

ST 3610.2 SR 394.2 SS 1421.1
 CRT .8513 CRS -.8276 CST -.9990
 LSA 3893.8 MSA 215.6 SSA 12.5
 EL1 3625.8 EL2 205.9 ALF 5.33

LAUNCH DATE DEC 5 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 13 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 16.165 GAL 27.77 AZL 86.88 HCA 37.10 SMA 86.21 ECC .78198 INC 3.1165 V1 30.225
 RP 107.53 LAP 1.88 LOP 109.99 VP 30.482 GAP -49.96 AZP 87.51 TAL 171.20 TAP 208.30 RCA 18.80 APO 153.63 V2 35.243
 RC 84.254 GL 2.51 GP -.24 ZAL 64.02 ZAP 33.92 ETS 178.35 ZAE 133.72 ETE 186.57 ZAC 59.69 ETC 162.02 CLP 33.92

PLANETOCENTRIC CONIC

C3 315.229 VHL 17.755 DLA 5.85 RAL 7.21 RAD 6571.8 VEL 20.893 PTH 3.19 VHP 28.021 DPA -16.73 RAP 327.40 ECC 6.1879
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 10 44 2976.74 -28.10 94.74 273.97 86.35 7 0 21 2376.7 -28.31 86.08
 90.00 19 36 12 5256.35 26.82 237.23 267.91 80.54 21 3 48 4656.3 25.23 228.92
 100.00 7 34 51 2705.44 -29.70 74.90 274.09 86.45 8 19 57 2105.4 -29.88 66.10
 100.00 20 54 46 5002.88 28.40 218.29 267.61 80.25 22 18 9 4402.9 26.76 209.87
 110.00 8 49 26 2472.02 -34.04 57.48 274.39 86.71 9 30 38 1872.0 -34.12 48.24
 110.00 21 56 41 4809.07 32.68 202.69 266.71 79.37 23 16 50 4209.1 30.87 193.94

DIFFERENTIAL CORRECTIONS

TOE -.8651 TRA-2.0840 TC3 -.1115 BAU .4720
 RDE-1.2511 RRA .6312 RC3 -.0104 FAU .01143
 FDE .3777 FRA .7297 FC3 -.0314 BSP 2003
 BOE 1.5211 BRA 2.1775 BC3 .1120 FSP -51

MID-COURSE EXECUTION ACCURACY

SGT 831.7 SGR 454.2 SG3 24.9
 RRT -.0293 RRF .0258 RTF -.6246
 SGB 947.7 R23 .0003 R13 .6246
 SG1 831.9 SG2 453.9 THA 178.70

ORBIT DETERMINATION ACCURACY

ST 345.3 SR 408.4 SS 341.6
 CRT .7111 CRS .7782 CST .9932
 LSA 593.8 MSA 223.5 SSA 14.0
 EL1 496.0 EL2 199.9 ALF 51.67

LAUNCH DATE DEC 5 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 16.941 GAL 26.48 AZL 86.85 HCA 40.35 SMA 87.68 ECC .75537 INC 3.1463 V1 30.225
 RP 107.51 LAP 2.04 LOP 113.23 VP 30.906 GAP -47.72 AZP 87.60 TAL 170.31 TAP 210.65 RCA 21.45 APO 153.91 V2 35.247
 RC 82.065 GL 2.81 GP -.24 ZAL 62.70 ZAP 32.38 ETS 178.41 ZAE 133.72 ETE 186.99 ZAC 61.34 ETC 162.39 CLP 32.38

PLANETOCENTRIC CONIC

C3 288.974 VHL 16.999 DLA 6.65 RAL 8.33 RAD 6571.7 VEL 20.255 PTH 3.15 VHP 26.992 DPA -16.20 RAP 329.09 ECC 5.7558
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 9 5 2991.63 -28.03 95.82 274.70 85.81 6 58 56 2391.6 -28.32 87.17
 90.00 19 46 45 5220.75 26.39 234.71 267.88 79.35 21 13 46 4620.7 24.65 226.47
 100.00 7 33 35 2719.05 -29.64 75.91 274.83 85.92 8 18 54 2119.1 -29.89 67.11
 100.00 21 4 56 4968.56 27.98 215.83 267.54 79.02 22 27 44 4368.6 26.18 207.49
 110.00 8 49 5 2482.80 -34.00 58.32 275.19 86.22 9 30 28 1882.8 -34.15 49.08
 110.00 22 5 56 4777.57 32.26 200.33 266.54 78.03 23 25 33 4177.6 30.27 191.68

DIFFERENTIAL CORRECTIONS

TOE -.8684 TRA-2.1012 TC3 -.1189 BAU .4616
 RDE-1.2122 RRA .6094 RC3 -.0118 FAU .01148
 FDE .3930 FRA .7566 FC3 -.0344 BSP 2153
 BOE 1.4912 BRA 2.1878 BC3 .1195 FSP -56

MID-COURSE EXECUTION ACCURACY

SGT 870.3 SGR 459.7 SG3 26.9
 RRT -.0290 RRF .0256 RTF -.6435
 SGB 984.3 R23 .0003 R13 .6435
 SG1 870.5 SG2 459.4 THA 178.78

ORBIT DETERMINATION ACCURACY

ST 362.7 SR 413.3 SS 357.4
 CRT .7094 CRS .7790 CST .9930
 LSA 614.1 MSA 229.7 SSA 14.2
 EL1 509.2 EL2 207.5 ALF 50.22

LAUNCH DATE DEC 5 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 17.670 GAL 25.27 AZL 86.83 HCA 43.60 SMA 89.16 ECC .72882 INC 3.1723 V1 30.225
 RP 107.50 LAP 2.19 LOP 116.48 VP 31.315 GAP -45.60 AZP 87.70 TAL 169.42 TAP 213.01 RCA 24.18 APO 154.14 V2 35.251
 RC 79.887 GL 3.11 GP -.25 ZAL 61.42 ZAP 30.88 ETS 178.47 ZAE 133.80 ETE 187.43 ZAC 63.01 ETC 162.75 CLP 30.87

PLANETOCENTRIC CONIC

C3 265.052 VHL 16.280 DLA 7.43 RAL 9.39 RAD 6571.5 VEL 19.656 PTH 3.12 VHP 25.998 DPA -15.64 RAP 330.80 ECC 5.3621
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 15 3005.76 -27.96 96.85 275.33 85.30 6 57 21 2405.8 -28.31 88.20
 90.00 19 57 5 5184.79 25.92 232.19 267.80 78.17 21 23 30 4584.8 24.02 224.03
 100.00 7 32 10 2731.90 -29.57 76.86 275.48 85.43 8 17 42 2131.9 -29.89 68.07
 100.00 21 14 52 4933.88 27.50 213.36 267.42 77.80 22 37 6 4333.9 25.54 205.11
 110.00 8 48 34 2492.82 -33.95 59.10 275.88 85.76 9 30 6 1892.8 -34.17 49.86
 110.00 22 14 58 4745.72 31.79 197.97 266.31 76.70 23 34 3 4145.7 29.63 189.42

DIFFERENTIAL CORRECTIONS

TOE -.8749 TRA-2.1215 TC3 -.1269 BAU .4522
 RDE-1.1733 RRA .5871 RC3 -.0134 FAU .01154
 FDE .4090 FRA .7841 FC3 -.0377 BSP 2233
 BOE 1.4636 BRA 2.2012 BC3 .1276 FSP -61

MID-COURSE EXECUTION ACCURACY

SGT 912.4 SGR 464.5 SG3 29.1
 RRT -.0278 RRF .0250 RTF -.6617
 SGB 1023.8 R23 -.0001 R13 .6618
 SG1 912.5 SG2 464.3 THA 178.90

ORBIT DETERMINATION ACCURACY

ST 382.1 SR 417.6 SS 373.8
 CRT .7084 CRS .7799 CST .9928
 LSA 636.0 MSA 235.5 SSA 14.4
 EL1 523.6 EL2 215.1 ALF 48.58

LAUNCH DATE DEC 5 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 18.354 GAL 24.14 AZL 86.80 HCA 46.84 SMA 90.66 ECC .70245 INC 3.1954 V1 30.225
 RP 107.49 LAP 2.33 LOP 119.73 VP 31.709 GAP -43.59 AZP 87.81 TAL 168.54 TAP 215.38 RCA 26.98 APO 154.35 V2 35.254
 RC 77.721 GL 3.43 GP -.26 ZAL 60.20 ZAP 29.39 ETS 178.53 ZAE 133.95 ETE 187.89 ZAC 64.70 ETC 163.09 CLP 29.39

PLANETOCENTRIC CONIC

C3 243.229 VHL 15.596 DLA 8.21 RAL 10.41 RAD 6571.4 VEL 19.093 PTH 3.08 VHP 25.038 DPA -15.06 RAP 332.52 ECC 5.0029
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 5 15 3019.16 -27.88 97.82 275.86 84.82 6 55 35 2419.2 -28.30 89.18
 90.00 20 7 13 5148.42 25.38 229.66 267.65 77.01 21 33 1 4548.4 23.34 221.58
 100.00 7 30 34 2743.99 -29.50 77.75 276.02 84.96 8 16 18 2144.0 -29.89 68.97
 100.00 21 24 35 4898.82 26.97 210.89 267.24 76.60 22 46 14 4298.8 24.86 202.73
 110.00 8 47 53 2502.08 -33.90 59.82 276.46 85.34 9 29 35 1902.1 -34.18 50.59
 110.00 22 23 46 4713.50 31.26 195.60 266.02 75.40 23 42 20 4113.5 28.94 187.17

DIFFERENTIAL CORRECTIONS

TOE -.8891 TRA-2.1491 TC3 -.1364 BAU .4461
 RDE-1.1341 RRA .5646 RC3 -.0150 FAU .01157
 FDE .4262 FRA .8130 FC3 -.0412 BSP 2141
 BOE 1.4411 BRA 2.2220 BC3 .1372 FSP -65

MID-COURSE EXECUTION ACCURACY

SGT 961.2 SGR 468.7 SG3 31.4
 RRT -.0248 RRF .0237 RTF -.6791
 SGB 1069.4 R23 -.0016 R13 .6792
 SG1 961.3 SG2 468.5 THA 179.09

ORBIT DETERMINATION ACCURACY

ST 405.1 SR 421.4 SS 391.3
 CRT .7092 CRS .7810 CST .9928
 LSA 660.7 MSA 240.9 SSA 14.7
 EL1 540.5 EL2 222.7 ALF 46.59

LAUNCH DATE DEC 5 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 18.996 GAL 23.07 AZL 86.78 MCA 50.09 SMA 92.17 ECC .67635 INC 3.2162 VI 30.225
 RP 107.48 LAP 2.47 LOP 122.97 VP 32.088 GAP -41.67 AZP 87.94 TAL 167.67 TAP 217.76 RCA 29.83 APO 154.51 V2 35.256
 RC 75.571 GL 3.76 GP -.27 ZAL 59.03 ZAP 27.92 ETS 178.59 ZAE 134.19 ETE 188.37 ZAC 66.42 ETC 163.42 CLP 27.92

PLANETOCENTRIC CONIC

C3 223.247 VHL 14.941 DLA 8.98 RAL 11.38 RAD 6571.3 VEL 18.562 PTH 3.05 VHP 24.107 DPA -14.46 RAP 334.26 ECC 4.6741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 3 4 3031.77 -27.80 98.74 276.28 84.37 6 53 36 2431.8 -28.29 90.10
 90.00 20 17 7 5111.61 24.80 227.12 267.45 75.87 21 42 18 4511.6 22.61 219.13
 100.00 7 28 47 2755.29 -29.43 78.58 276.46 84.53 8 14 43 2155.3 -29.88 69.81
 100.00 21 34 4 4863.32 26.39 208.41 266.99 75.42 22 55 8 4263.3 24.13 200.34
 110.00 8 47 1 2510.52 -33.85 60.48 276.94 84.95 9 28 51 1910.5 -34.18 51.25
 110.00 22 32 21 4680.86 30.67 193.24 265.67 74.11 23 50 21 4080.9 28.19 184.92

DIFFERENTIAL CORRECTIONS

TOE -.8188 TRA-2.0914 TC3 -.1311 BAU .3945
 ROE-1.0959 RRA .5406 RC3 -.0171 FAU .01207
 FDE .4339 FRA .8326 FC3 -.0468 BSP 4083
 BOE 1.3680 BRA 2.1601 BC3 .1322 FSP -89

MID-COURSE EXECUTION ACCURACY

SGT 954.6 SGR 472.5 SG3 33.7
 RRT -.0410 RRF .0274 RTF -.6989
 SGB 1065.1 R23 .0105 R13 .6989
 SG1 954.8 SG2 472.0 THA 178.46

ORBIT DETERMINATION ACCURACY

ST 397.6 SR 424.9 SS 401.3
 CRT .6904 CRS .7796 CST .9900
 LSA 662.1 MSA 247.0 SSA 14.4
 EL1 535.3 EL2 228.3 ALF 47.75

LAUNCH DATE DEC 5 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 19.599 GAL 22.06 AZL 86.76 MCA 53.34 SMA 93.69 ECC .65072 INC 3.2351 VI 30.225
 RP 107.48 LAP 2.59 LOP 126.22 VP 32.450 GAP -39.85 AZP 88.07 TAL 166.81 TAP 220.15 RCA 32.72 APO 154.65 V2 35.258
 RC 73.439 GL 4.11 GP -.28 ZAL 57.91 ZAP 26.48 ETS 178.64 ZAE 134.51 ETE 188.89 ZAC 68.15 ETC 163.73 CLP 26.47

PLANETOCENTRIC CONIC

C3 205.042 VHL 14.319 DLA 9.73 RAL 12.30 RAD 6571.1 VEL 18.065 PTH 3.01 VHP 23.209 DPA -13.84 RAP 336.00 ECC 4.3745
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 42 3043.79 -27.71 99.61 276.60 83.94 6 51 26 2443.8 -28.26 90.98
 90.00 20 26 51 5074.30 24.15 224.58 267.19 74.75 21 51 26 4474.3 21.82 216.68
 100.00 7 26 50 2765.98 -29.36 79.37 276.80 84.12 8 12 56 2166.0 -29.87 70.60
 100.00 21 43 24 4827.34 25.75 205.93 266.70 74.27 23 3 51 4227.3 23.34 197.96
 110.00 8 45 59 2518.31 -33.81 61.08 277.31 84.60 9 27 57 1918.3 -34.18 51.85
 110.00 22 40 45 4647.77 30.03 190.88 265.27 72.85 23 58 13 4047.8 27.39 182.68

DIFFERENTIAL CORRECTIONS

TOE -.8706 TRA-2.1553 TC3 -.1473 BAU .4071
 ROE-1.0563 RRA .5181 RC3 -.0190 FAU .01194
 FDE .4564 FRA .8669 FC3 -.0504 BSP 3110
 BOE 1.3688 BRA 2.2167 BC3 .1485 FSP -85

MID-COURSE EXECUTION ACCURACY

SGT 1031.9 SGR 475.2 SG3 36.5
 RRT -.0283 RRF .0233 RTF -.7134
 SGB 1136.1 R23 .0023 R13 .7134
 SG1 1032.0 SG2 475.0 THA 179.05

ORBIT DETERMINATION ACCURACY

ST 436.4 SR 427.3 SS 423.1
 CRT .7008 CRS .7821 CST .9914
 LSA 699.1 MSA 251.3 SSA 14.9
 EL1 563.3 EL2 236.2 ALF 44.15

LAUNCH DATE DEC 5 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 20.166 GAL 21.10 AZL 86.75 MCA 56.59 SMA 95.20 ECC .62555 INC 3.2525 VI 30.225
 RP 107.48 LAP 2.71 LOP 129.47 VP 32.797 GAP -38.12 AZP 88.21 TAL 165.96 TAP 222.55 RCA 35.65 APO 154.76 V2 35.259
 RC 71.328 GL 4.46 GP -.28 ZAL 56.85 ZAP 25.05 ETS 178.69 ZAE 134.92 ETE 189.43 ZAC 69.91 ETC 164.03 CLP 25.04

PLANETOCENTRIC CONIC

C3 188.362 VHL 13.724 DLA 10.48 RAL 13.18 RAD 6571.0 VEL 17.598 PTH 2.97 VHP 22.338 DPA -13.20 RAP 337.75 ECC 4.1000
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 58 7 3055.13 -27.63 100.42 276.82 83.53 6 49 2 2455.1 -28.24 91.81
 90.00 20 36 24 5036.45 23.45 222.03 266.87 73.66 22 0 21 4436.5 20.99 214.22
 100.00 7 24 41 2775.96 -29.29 80.10 277.03 83.74 8 10 57 2176.0 -29.85 71.34
 100.00 21 52 32 4790.85 25.05 203.44 266.35 73.13 23 12 23 4190.9 22.50 195.57
 110.00 8 44 46 2525.36 -33.76 61.62 277.58 84.28 9 26 51 1925.4 -34.18 52.41
 110.00 22 48 56 4614.21 29.33 188.51 264.82 71.61 24 5 51 4014.2 26.54 180.44

DIFFERENTIAL CORRECTIONS

TOE -.8806 TRA-2.1763 TC3 -.1562 BAU .3969
 ROE-1.0173 RRA .4948 RC3 -.0211 FAU .01206
 FDE .4746 FRA .8969 FC3 -.0554 BSP 3147
 BOE 1.3455 BRA 2.2319 BC3 .1576 FSP -91

MID-COURSE EXECUTION ACCURACY

SGT 1082.9 SGR 477.3 SG3 39.3
 RRT -.0254 RRF .0215 RTF -.7289
 SGB 1183.4 R23 .0014 R13 .7290
 SG1 1083.0 SG2 477.2 THA 179.21

ORBIT DETERMINATION ACCURACY

ST 460.6 SR 429.3 SS 441.5
 CRT .7013 CRS .7834 CST .9913
 LSA 725.2 MSA 255.5 SSA 15.1
 EL1 581.0 EL2 242.6 ALF 42.14

LAUNCH DATE DEC 5 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 20.698 GAL 20.19 AZL 86.73 MCA 59.83 SMA 96.71 ECC .60095 INC 3.2686 VI 30.225
 RP 107.48 LAP 2.83 LOP 132.72 VP 33.126 GAP -36.46 AZP 88.36 TAL 165.14 TAP 224.97 RCA 38.59 APO 154.83 V2 35.259
 RC 69.241 GL 4.83 GP -.30 ZAL 55.83 ZAP 23.63 ETS 178.73 ZAE 135.43 ETE 190.01 ZAC 71.68 ETC 164.31 CLP 23.63

PLANETOCENTRIC CONIC

C3 173.088 VHL 13.156 DLA 11.23 RAL 14.00 RAD 6570.9 VEL 17.158 PTH 2.94 VHP 21.495 DPA -12.55 RAP 339.51 ECC 3.8486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 19 3065.84 -27.54 101.20 276.94 83.16 6 46 25 2465.8 -28.21 92.59
 90.00 20 45 47 4998.02 22.69 219.47 266.51 72.59 22 9 5 4398.0 20.09 211.75
 100.00 7 22 19 2785.29 -29.22 80.79 277.16 83.39 8 8 44 2185.3 -29.83 72.03
 100.00 22 1 29 4753.81 24.30 200.95 265.95 72.03 23 20 43 4153.8 21.61 193.18
 110.00 8 43 21 2531.72 -33.71 62.11 277.74 83.99 9 25 32 1931.7 -34.18 52.90
 110.00 22 56 56 4580.15 28.58 186.15 264.32 70.39 24 13 17 3980.1 25.64 178.20

DIFFERENTIAL CORRECTIONS

TOE -.8862 TRA-2.1920 TC3 -.1642 BAU .3839
 ROE -.9784 RRA .4714 RC3 -.0235 FAU .01222
 FDE .4930 FRA .9271 FC3 -.0611 BSP 3296
 BOE 1.3201 BRA 2.2421 BC3 .1659 FSP -100

MID-COURSE EXECUTION ACCURACY

SGT 1132.6 SGR 478.8 SG3 42.5
 RRT -.0231 RRF .0197 RTF -.7440
 SGB 1229.7 R23 .0012 R13 .7440
 SG1 1132.7 SG2 478.6 THA 179.32

ORBIT DETERMINATION ACCURACY

ST 484.1 SR 430.7 SS 460.0
 CRT .7009 CRS .7846 CST .9911
 LSA 751.0 MSA 259.4 SSA 15.3
 EL1 598.4 EL2 248.5 ALF 40.25

LAUNCH DATE DEC 5 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 177.545

RL 147.41 LAL -0.00 LOL 72.93 VL 21.198 GAL 19.32 AZL 86.72 MCA 63.08 SMA 98.21 ECC .57697 INC 3.2837 VI 30.225
 RP 107.48 LAP 2.93 LOP 135.97 VP 33.440 GAP -34.87 AZP 88.51 TAL 164.33 TAP 227.41 RCA 41.55 APO 154.87 V2 35.258
 RC 67.184 GL 5.21 GP -.31 ZAL 54.87 ZAP 22.23 ETS 178.77 ZAE 136.03 ETE 190.62 ZAC 73.47 ETC 164.57 CLP 22.23

PLANETOCENTRIC CONIC

C3 159.097 VHL 12.613 DLA 11.96 RAL 14.78 RAD 6570.7 VEL 16.746 PTH 2.90 VHP 20.677 OPA -11.88 RAP 341.28 ECC 3.6183
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 52 18 3075.99 -27.46 101.93 276.95 82.80 6 43 34 2476.0 -28.17 93.33
 90.00 20 55 1 4958.98 21.87 216.90 266.09 71.55 22 17 40 4359.0 19.15 209.28
 100.00 7 19 44 2794.02 -29.15 81.43 277.19 83.06 8 6 18 2194.0 -29.80 72.68
 100.00 22 10 16 4716.19 23.48 198.45 265.49 70.95 23 28 53 4116.2 20.67 190.79
 110.00 8 41 44 2537.41 -33.67 62.55 277.80 83.74 9 24 1 1937.4 -34.17 53.35
 110.00 23 4 45 4545.56 27.77 183.79 263.77 69.21 24 20 31 3945.6 24.68 175.97

DIFFERENTIAL CORRECTIONS

TOE -.8919 TRA-2.2062 TC3 -.1722 BAU .3704
 ROE -.9398 RRA .4481 RC3 -.0261 FAU .01240
 FOE .5121 FRA .9581 FC3 -.0675 BSP 3454
 BOE 1.2956 BRA 2.2512 BC3 .1741 FSP -109

MID-COURSE EXECUTION ACCURACY

SGT 1184.1 SGR 479.4 SG3 45.8
 RRT -.0204 RRF .0176 RTF -.7584
 SGB 1277.5 R23 .0009 R13 .7584
 SG1 1184.2 SG2 479.3 THA 179.43

ORBIT DETERMINATION ACCURACY

ST 508.7 SR 431.4 SS 479.2
 CRT .7008 CRS .7860 CST .9908
 LSA 778.0 MSA 262.7 SSA 15.4
 EL1 616.8 EL2 253.8 ALF 38.36

LAUNCH DATE DEC 5 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 183.844

RL 147.41 LAL -0.00 LOL 72.93 VL 21.667 GAL 18.49 AZL 86.70 MCA 66.33 SMA 99.69 ECC .55365 INC 3.2979 VI 30.225
 RP 107.48 LAP 3.02 LOP 139.22 VP 33.738 GAP -33.35 AZP 88.67 TAL 163.55 TAP 229.88 RCA 44.50 APO 154.89 V2 35.257
 RC 65.159 GL 5.61 GP -.32 ZAL 53.97 ZAP 20.85 ETS 178.79 ZAE 136.74 ETE 191.28 ZAC 75.27 ETC 164.82 CLP 20.84

PLANETOCENTRIC CONIC

C3 146.276 VHL 12.094 DLA 12.69 RAL 15.51 RAD 6570.6 VEL 16.359 PTH 2.86 VHP 19.884 OPA -11.20 RAP 343.04 ECC 3.4073
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 1 3085.63 -27.38 102.62 276.87 82.46 6 40 27 2485.6 -28.14 94.04
 90.00 21 4 6 4919.29 20.99 214.32 265.62 70.55 22 26 6 4319.3 18.15 206.80
 100.00 7 16 55 2802.19 -29.08 82.02 277.12 82.75 8 3 37 2202.2 -29.78 73.29
 100.00 22 18 54 4677.97 22.61 195.95 264.99 69.91 23 36 52 4078.0 19.67 188.39
 110.00 8 39 54 2542.49 -33.63 62.95 277.76 83.51 9 22 17 1942.5 -34.17 53.74
 110.00 23 12 24 4510.43 26.89 181.43 263.18 68.06 24 27 34 3910.4 23.68 173.74

DIFFERENTIAL CORRECTIONS

TOE -.8956 TRA-2.2169 TC3 -.1794 BAU .3554
 ROE -.9014 RRA .4248 RC3 -.0289 FAU .01263
 FOE .5318 FRA .9898 FC3 -.0747 BSP 3670
 BOE 1.2707 BRA 2.2572 BC3 .1817 FSP -119

MID-COURSE EXECUTION ACCURACY

SGT 1235.8 SGR 479.3 SG3 49.4
 RRT -.0178 RRF .0152 RTF -.7722
 SGB 1325.5 R23 .0010 R13 .7722
 SG1 1235.8 SG2 479.3 THA 179.53

ORBIT DETERMINATION ACCURACY

ST 533.4 SR 431.5 SS 498.8
 CRT .7005 CRS .7875 CST .9905
 LSA 805.4 MSA 265.5 SSA 15.6
 EL1 635.5 EL2 258.4 ALF 36.52

LAUNCH DATE DEC 5 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 190.212

RL 147.41 LAL -0.00 LOL 72.93 VL 22.108 GAL 17.69 AZL 86.69 MCA 69.58 SMA 101.16 ECC .53103 INC 3.3115 VI 30.225
 RP 107.49 LAP 3.10 LOP 142.47 VP 34.021 GAP -31.90 AZP 88.84 TAL 162.79 TAP 232.36 RCA 47.44 APO 154.88 V2 35.254
 RC 63.173 GL 6.02 GP -.33 ZAL 53.11 ZAP 19.47 ETS 178.80 ZAE 137.55 ETE 191.99 ZAC 77.08 ETC 165.06 CLP 19.47

PLANETOCENTRIC CONIC

C3 134.527 VHL 11.599 DLA 13.41 RAL 16.19 RAD 6570.4 VEL 15.996 PTH 2.82 VHP 19.115 OPA -10.51 RAP 344.81 ECC 3.2140
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 45 29 3094.83 -27.29 103.28 276.68 82.14 6 37 4 2494.8 -28.10 94.71
 90.00 21 13 4 4878.92 20.06 211.73 265.10 69.58 22 34 23 4278.9 17.10 204.30
 100.00 7 13 51 2809.87 -29.01 82.58 276.94 82.46 8 0 41 2209.9 -29.75 73.86
 100.00 22 27 23 1639.11 21.68 193.44 264.45 68.90 23 44 42 4039.1 18.62 185.98
 110.00 8 37 52 2547.00 -33.60 63.29 277.61 83.30 9 20 19 1947.0 -34.16 54.09
 110.00 23 19 52 4474.74 25.96 179.07 262.55 66.94 24 34 27 3874.7 22.62 171.51

DIFFERENTIAL CORRECTIONS

TOE -.8994 TRA-2.2261 TC3 -.1863 BAU .3400
 ROE -.8634 RRA .4016 RC3 -.0318 FAU .01288
 FOE .5525 FRA 1.0224 FC3 -.0829 BSP 3890
 BOE 1.2467 BRA 2.2620 BC3 .1890 FSP -130

MID-COURSE EXECUTION ACCURACY

SGT 1289.3 SGR 478.5 SG3 53.3
 RRT -.0149 RRF .0125 RTF -.7854
 SGB 1375.2 R23 .0010 R13 .7854
 SG1 1289.3 SG2 478.4 THA 179.63

ORBIT DETERMINATION ACCURACY

ST 559.1 SR 430.9 SS 519.1
 CRT .7006 CRS .7891 CST .9903
 LSA 834.1 MSA 267.7 SSA 15.7
 EL1 655.3 EL2 262.3 ALF 34.70

LAUNCH DATE DEC 5 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 196.641

RL 147.41 LAL -0.00 LOL 72.93 VL 22.522 GAL 16.93 AZL 86.68 MCA 72.82 SMA 102.61 ECC .50915 INC 3.3245 VI 30.225
 RP 107.50 LAP 3.18 LOP 145.72 VP 34.288 GAP -30.50 AZP 89.02 TAL 162.05 TAP 234.87 RCA 50.36 APO 154.85 V2 35.251
 RC 61.231 GL 6.45 GP -.35 ZAL 52.31 ZAP 18.10 ETS 178.79 ZAE 138.47 ETE 192.75 ZAC 78.91 ETC 165.28 CLP 18.10

PLANETOCENTRIC CONIC

C3 123.759 VHL 11.125 DLA 14.13 RAL 16.82 RAD 6570.3 VEL 15.655 PTH 2.78 VHP 18.370 OPA -9.80 RAP 346.58 ECC 3.0368
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 41 41 3103.65 -27.21 103.91 276.39 81.83 6 33 25 2503.6 -28.06 95.35
 90.00 21 21 54 4837.83 19.08 209.12 264.55 68.65 22 42 32 4237.8 15.99 201.79
 100.00 7 10 32 2817.12 -28.95 83.11 276.67 82.19 7 57 29 2217.1 -29.72 74.40
 100.00 22 35 44 4599.59 20.69 190.92 263.86 67.93 23 52 24 3999.6 17.51 183.56
 110.00 8 35 35 2550.98 -33.57 63.60 277.37 83.13 9 18 6 1951.0 -34.15 54.41
 110.00 23 27 10 4436.50 24.98 176.71 261.87 65.87 24 41 9 3838.5 21.50 169.29

DIFFERENTIAL CORRECTIONS

TOE -.9062 TRA-2.2364 TC3 -.1937 BAU .3257
 ROE -.8257 RRA .3787 RC3 -.0350 FAU .01316
 FOE .5747 FRA 1.0564 FC3 -.0920 BSP 4050
 BOE 1.2260 BRA 2.2682 BC3 .1969 FSP -142

MID-COURSE EXECUTION ACCURACY

SGT 1347.0 SGR 476.8 SG3 57.6
 RRT -.0107 RRF .0092 RTF -.7978
 SGB 1428.9 R23 .0005 R13 .7978
 SG1 1347.0 SG2 476.8 THA 179.75

ORBIT DETERMINATION ACCURACY

ST 587.3 SR 429.5 SS 540.5
 CRT .7017 CR5 .7910 CST .9901
 LSA 865.4 MSA 269.2 SSA 15.8
 EL1 677.6 EL2 265.3 ALF 32.81

LAUNCH DATE DEC 5 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 203.127

RL 147.41 LAL -0.00 LOL 72.93 VL 22.910 GAL 16.20 AZL 86.66 MCA 76.07 SMA 104.03 ECC .44802 INC 3.3370 V1 30.225
 RP 107.51 LAP 3.24 LOP 148.98 VP 34.541 GAP -29.15 AZP 89.20 TAL 161.34 TAP 237.41 RCA 53.26 APO 154.79 V2 35.248
 RC 59.338 GL 6.89 GP -.36 ZAL 51.56 ZAP 16.74 ETS 178.75 ZAE 139.51 ETE 193.58 ZAC 80.74 ETC 165.48 CLP 16.74

PLANETOCENTRIC CONIC

C3 113.890 VHL 10.672 DLA 14.84 RAL 17.40 RAD 6570.2 VEL 15.337 PTH 2.75 VHP 17.647 DPA -9.08 RAP 348.35 ECC 2.8743
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 35 3112.18 -27.12 104.52 276.01 81.54 6 29 27 2512.2 -28.02 95.97
 90.00 21 30 38 4796.02 18.00 206.51 263.95 67.77 22 50 34 4196.0 14.83 199.27
 100.00 7 6 56 2824.01 -28.88 83.62 276.30 81.94 7 54 0 2224.0 -29.70 74.91
 100.00 22 43 58 4559.41 19.64 188.39 263.23 67.00 23 59 58 3959.4 16.36 181.14
 110.00 8 33 4 2554.50 -33.54 63.87 277.02 82.97 9 15 39 1954.5 -34.15 54.68
 110.00 23 34 19 4401.69 23.93 174.37 261.16 64.83 24 47 41 3801.7 20.34 167.06

DIFFERENTIAL CORRECTIONS

TDE -.9108 TRA-2.2425 TC3 -.1999 BAU .3099
 RDE -.7885 RRA .3561 RC3 -.0384 FAU .01348
 FDE .5979 FRA 1.0913 FC3 -.1024 BSP 4272
 BOE 1.2047 BRA 2.2706 BC3 .2035 FSP -155

MID-COURSE EXECUTION ACCURACY

SGT 1404.4 SGR 474.4 SG3 62.2
 RRT -.0066 RRF .0056 RTF -.8097
 SGB 1482.4 R23 .0005 R13 .8097
 SG1 1404.4 SG2 474.4 THA 179.86

ORBIT DETERMINATION ACCURACY

ST 615.5 SR 427.5 SS 562.6
 CRT .7026 CRS .7930 CST .9899
 LSA 897.2 MSA 270.1 SSA 15.9
 EL1 700.1 EL2 267.5 ALF 31.03

LAUNCH DATE DEC 5 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 209.664

RL 147.41 LAL -0.00 LOL 72.93 VL 23.275 GAL 15.49 AZL 86.65 MCA 79.32 SMA 105.42 ECC .46765 INC 3.3492 V1 30.225
 RP 107.52 LAP 3.29 LOP 152.23 VP 34.779 GAP -27.86 AZP 89.38 TAL 160.66 TAP 239.97 RCA 56.12 APO 154.71 V2 35.243
 RC 57.501 GL 7.35 GP -.38 ZAL 50.86 ZAP 15.39 ETS 178.69 ZAE 140.67 ETE 194.49 ZAC 82.57 ETC 165.67 CLP 15.38

PLANETOCENTRIC CONIC

C3 104.846 VHL 10.239 DLA 15.55 RAL 17.93 RAD 6570.0 VEL 15.039 PTH 2.71 VHP 16.946 DPA -8.36 RAP 350.12 ECC 2.7255
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 10 3120.50 -27.04 105.12 275.53 81.25 6 25 11 2520.5 -27.97 96.58
 90.00 21 39 18 4753.45 16.89 203.88 263.32 66.93 22 58 31 4153.4 13.62 196.73
 100.00 7 3 3 2830.63 -28.82 84.10 275.84 81.69 7 50 14 2230.6 -29.67 75.40
 100.00 22 52 5 4518.56 18.53 185.87 262.56 66.12 24 7 24 3918.6 15.15 178.71
 110.00 8 30 19 2557.63 -33.51 64.11 276.58 82.83 9 12 56 1957.6 -34.14 54.92
 110.00 23 41 20 4364.32 22.83 172.02 260.42 63.84 24 54 4 3764.3 19.13 164.85

DIFFERENTIAL CORRECTIONS

TDE -.9157 TRA-2.2467 TC3 -.2055 BAU .2939
 RDE -.7518 RRA .3339 RC3 -.0419 FAU .01383
 FDE .6226 FRA 1.1276 FC3 -.1142 BSP 4498
 BOE 1.1848 BRA 2.2713 BC3 .2097 FSP -169

MID-COURSE EXECUTION ACCURACY

SGT 1463.7 SGR 471.1 SG3 67.2
 RRT -.0020 RRF .0015 RTF -.8210
 SGB 1537.6 R23 .0003 R13 .8210
 SG1 1463.7 SG2 471.1 THA 179.96

ORBIT DETERMINATION ACCURACY

ST 645.0 SR 424.7 SS 585.7
 CRT .7039 CRS .7953 CST .9897
 LSA 930.6 MSA 270.3 SSA 16.0
 EL1 724.0 EL2 268.7 ALF 29.29

LAUNCH DATE DEC 5 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 216.247

RL 147.41 LAL -0.00 LOL 72.93 VL 23.617 GAL 14.82 AZL 86.64 MCA 82.56 SMA 106.78 ECC .44806 INC 3.3612 V1 30.225
 RP 107.54 LAP 3.33 LOP 155.48 VP 35.004 GAP -26.62 AZP 89.56 TAL 160.00 TAP 242.56 RCA 58.93 APO 154.62 V2 35.238
 RC 55.726 GL 7.83 GP -.40 ZAL 50.22 ZAP 14.04 ETS 178.59 ZAE 141.95 ETE 195.49 ZAC 84.41 ETC 165.85 CLP 14.03

PLANETOCENTRIC CONIC

C3 96.559 VHL 9.826 DLA 16.26 RAL 18.41 RAD 6569.9 VEL 14.762 PTH 2.67 VHP 16.266 DPA -7.63 RAP 351.88 ECC 2.5891
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 25 3128.73 -26.95 105.70 274.96 80.97 6 20 34 2528.7 -27.92 97.17
 90.00 21 47 53 4710.10 15.71 201.25 262.65 66.13 23 6 23 4110.1 12.35 194.18
 100.00 6 58 52 2837.05 -28.75 84.56 275.28 81.45 7 46 9 2237.1 -29.64 75.87
 100.00 23 0 7 4477.01 17.37 183.33 261.87 65.28 24 14 44 3877.0 13.89 176.26
 110.00 8 27 17 2560.42 -33.49 64.33 276.05 82.70 9 9 57 1960.4 -34.13 55.14
 110.00 23 48 11 4326.41 21.67 169.69 259.65 62.89 25 0 18 3726.4 17.86 162.63

DIFFERENTIAL CORRECTIONS

TDE -.9205 TRA-2.2485 TC3 -.2101 BAU .2775
 RDE -.7157 RRA .3121 RC3 -.0457 FAU .01423
 FDE .6488 FRA 1.1653 FC3 -.1276 BSP 4737
 BOE 1.1660 BRA 2.2701 BC3 .2150 FSP -185

MID-COURSE EXECUTION ACCURACY

SGT 1524.3 SGR 467.0 SG3 72.6
 RRT .0031 RRF -.0030 RTF -.8318
 SGB 1594.3 R23 -.0002 R13 -.8318
 SG1 1524.3 SG2 467.0 THA .06

ORBIT DETERMINATION ACCURACY

ST 675.3 SR 421.2 SS 609.8
 CRT .7057 CRS .7977 CST .9895
 LSA 965.5 MSA 269.8 SSA 16.1
 EL1 749.0 EL2 269.0 ALF 27.61

LAUNCH DATE DEC 5 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 222.871

RL 147.41 LAL -0.00 LOL 72.93 VL 23.937 GAL 14.18 AZL 86.63 MCA 85.80 SMA 108.10 ECC .42926 INC 3.3729 V1 30.225
 RP 107.56 LAP 3.36 LOP 158.72 VP 35.215 GAP -25.42 AZP 89.75 TAL 159.38 TAP 245.19 RCA 61.70 APO 154.51 V2 35.232
 RC 54.021 GL 8.32 GP -.42 ZAL 49.64 ZAP 12.69 ETS 178.43 ZAE 143.37 ETE 196.59 ZAC 86.25 ETC 166.01 CLP 12.68

PLANETOCENTRIC CONIC

C3 88.971 VHL 9.432 DLA 16.96 RAL 18.84 RAD 6569.7 VEL 14.502 PTH 2.63 VHP 15.607 DPA -6.89 RAP 353.64 ECC 2.4642
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 23 19 3136.98 -26.86 106.29 274.31 80.69 6 15 36 2537.0 -27.88 97.77
 90.00 21 56 25 4665.97 14.48 198.59 261.95 65.40 23 14 11 4066.0 11.04 191.60
 100.00 6 54 22 2843.40 -28.69 85.02 274.64 81.22 7 41 45 2243.4 -29.60 76.34
 100.00 23 8 4 4434.78 16.15 180.79 261.14 64.50 24 21 58 3834.8 12.59 173.81
 110.00 8 23 59 2562.98 -33.47 64.52 275.43 82.59 9 6 42 1963.0 -34.13 55.34
 110.00 23 54 55 4287.97 20.46 167.36 258.85 62.00 25 6 23 3688.0 16.56 160.42

DIFFERENTIAL CORRECTIONS

TDE -.9285 TRA-2.2511 TC3 -.2150 BAU .2624
 RDE -.6802 RRA .2908 RC3 -.0497 FAU .01466
 FDE .6775 FRA 1.2052 FC3 -.1426 BSP 4912
 BOE 1.1510 BRA 2.2698 BC3 .2206 FSP -202

MID-COURSE EXECUTION ACCURACY

SGT 1589.4 SGR 462.2 SG3 78.6
 RRT .0096 RRF -.0083 RTF -.8418
 SGB 1655.3 R23 .0005 R13 -.8418
 SG1 1589.4 SG2 462.1 THA .17

ORBIT DETERMINATION ACCURACY

ST 708.6 SR 416.9 SS 635.5
 CRT .7085 CRS .8005 CST .9895
 LSA 1003.7 MSA 268.5 SSA 16.2
 EL1 777.2 EL2 268.3 ALF 25.94

LAUNCH DATE DEC 5 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 17 1969

Heliocentric Conic
 RL 147.41 LAL -0.00 LOL 72.93 VL 24.238 GAL 13.56 AZL 86.62 HCA 89.05 SMA 109.39 ECC .41123 INC 3.3845 V1 30.225
 RP 107.58 LAP 3.38 LOP 161.97 VP 35.413 GAP -24.26 AZP 89.94 TAL 158.79 TAP 247.84 RCA 64.41 APO 154.38 V2 35.226
 RC 52.393 GL 8.84 GP -.44 ZAL 49.10 ZAP 11.34 ETS 178.19 ZAE 144.91 ETE 197.83 ZAC 88.09 ETC 166.16 CLP 11.33

Distance 229.531

Planeto-centric Conic
 C3 82.022 VHL 9.057 DLA 17.66 RAL 19.22 RAD 6569.6 VEL 14.261 PTH 2.60 VHP 14.967 DPA -6.15 RAP 355.39 ECC 2.3499
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 17 50 3145.38 -26.77 106.89 273.57 80.40 6 10 16 2545.4 -27.82 98.38
 90.00 22 4 55 4621.02 13.19 195.92 261.23 64.71 23 21 56 4021.0 9.67 189.01
 100.00 6 49 31 2849.77 -28.62 85.49 273.91 80.98 7 37 0 2249.8 -29.57 76.81
 100.00 23 15 56 4391.87 14.88 178.24 260.39 63.77 24 29 8 3791.9 11.23 171.34
 110.00 8 20 24 2565.37 -33.44 64.71 274.73 82.48 9 3 10 1965.4 -34.12 55.53
 110.00 0 5 28 4249.02 19.20 165.05 258.03 61.16 1 16 17 3649.0 15.20 158.21

Differential Corrections
 TOE -.9343 TRA-2.2491 TC3 -.2178 BAU .2460 SGT 1653.7 SGR 456.4 SG3 85.1 ST 741.7 SR 411.9 SS 662.2
 RDE -.6454 RRA .2700 RC3 -.0538 FAU .01515 RRT .0160 RRF -.0139 RTF -.8514 CRT .7113 CRS .8035 CST .9894
 FDE .7078 FRA 1.2466 FC3 -.1599 BSP 5150 SGB 1715.5 R23 .0008 R13 -.8514 LSA 1042.6 MSA 266.6 SSA 16.3
 BOE 1.1355 BRA 2.2652 BC3 .2243 FSP -221 SG1 1653.7 SG2 456.4 THA .27 EL1 805.4 EL2 266.6 ALF 24.40

Orbit Determination Accuracy

LAUNCH DATE DEC 5 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 19 1969

Heliocentric Conic
 RL 147.41 LAL -0.00 LOL 72.93 VL 24.519 GAL 12.97 AZL 86.60 HCA 92.29 SMA 110.64 ECC .39399 INC 3.3961 V1 30.225
 RP 107.60 LAP 3.39 LOP 165.22 VP 35.599 GAP -23.15 AZP 90.14 TAL 158.24 TAP 250.53 RCA 67.05 APO 154.23 V2 35.219
 RC 50.852 GL 9.36 GP -.47 ZAL 48.63 ZAP 9.99 ETS 177.85 ZAE 146.59 ETE 199.23 ZAC 89.93 ETC 166.29 CLP 9.98

Distance 236.223

Planeto-centric Conic
 C3 75.662 VHL 8.698 DLA 18.37 RAL 19.55 RAD 6569.5 VEL 14.036 PTH 2.56 VHP 14.347 DPA -5.41 RAP 357.14 ECC 2.2452
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 57 3154.06 -26.67 107.50 272.74 80.11 -6 4 31 2554.1 -27.76 99.01
 90.00 22 13 26 4575.25 11.84 193.24 260.48 64.09 23 29 41 3975.2 8.26 186.39
 100.00 6 44 18 2856.28 -28.55 85.96 273.10 80.75 7 31 54 2256.3 -29.53 77.29
 100.00 23 23 46 4348.26 13.55 175.68 259.61 63.10 24 36 15 3748.3 9.83 168.86
 110.00 8 16 32 2567.70 -33.42 64.88 273.94 82.38 8 59 19 1967.7 -34.12 55.71
 110.00 0 11 58 4209.60 17.89 162.74 257.19 60.37 1 22 7 3609.6 13.81 156.00

Differential Corrections
 TOE -.9406 TRA-2.2448 TC3 -.2192 BAU .2294 SGT 1719.5 SGR 449.9 SG3 92.1 ST 776.2 SR 406.1 SS 690.4
 RDE -.6114 RRA .2498 RC3 -.0580 FAU .01570 RRT .0231 RRF -.0202 RTF -.8606 CRT .7146 CRS .8067 CST .9893
 FDE .7406 FRA 1.2901 FC3 -.1796 BSP 5390 SGB 1777.4 R23 .0011 R13 -.8606 LSA 1083.5 MSA 264.0 SSA 16.4
 BOE 1.1218 BRA 2.2586 BC3 .2268 FSP -241 SG1 1719.5 SG2 449.8 THA .37 EL1 835.2 EL2 264.0 ALF 22.92

Orbit Determination Accuracy

LAUNCH DATE DEC 5 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 21 1969

Heliocentric Conic
 RL 147.41 LAL -0.00 LOL 72.93 VL 24.783 GAL 12.41 AZL 86.59 HCA 95.53 SMA 111.85 ECC .37751 INC 3.4078 V1 30.225
 RP 107.62 LAP 3.39 LOP 168.46 VP 35.774 GAP -22.08 AZP 90.33 TAL 157.72 TAP 253.25 RCA 69.63 APO 154.08 V2 35.211
 RC 49.405 GL 9.91 GP -.50 ZAL 48.21 ZAP 8.63 ETS 177.34 ZAE 148.41 ETE 200.83 ZAC 91.76 ETC 166.41 CLP 8.62

Distance 242.941

Planeto-centric Conic
 C3 69.844 VHL 8.357 DLA 19.07 RAL 19.83 RAD 6569.3 VEL 13.827 PTH 2.53 VHP 13.747 DPA -4.67 RAP 358.87 ECC 2.1495
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 37 3163.18 -26.56 108.15 271.84 79.81 5 58 20 2563.2 -27.70 99.67
 90.00 22 21 58 4528.61 10.44 190.53 259.71 63.53 23 37 26 3928.6 6.80 183.74
 100.00 6 38 41 2863.06 -28.48 86.45 272.21 80.50 7 26 25 2263.1 -29.49 77.79
 100.00 23 31 35 4303.97 12.17 173.12 258.82 62.49 24 43 19 3704.0 8.39 166.37
 110.00 8 12 20 2570.06 -33.40 65.06 273.08 82.27 8 55 10 1970.1 -34.11 55.89
 110.00 0 18 21 4169.73 16.53 160.45 256.33 59.65 1 27 51 3569.7 12.38 153.80

Differential Corrections
 TOE -.9470 TRA-2.2380 TC3 -.2190 BAU .2126 SGT 1786.3 SGR 442.5 SG3 99.9 ST 811.7 SR 399.5 SS 720.2
 RDE -.5781 RRA .2303 RC3 -.0624 FAU .01631 RRT .0308 RRF -.0270 RTF -.8692 CRT .7184 CRS .8102 CST .9893
 FDE .7761 FRA 1.3358 FC3 -.2021 BSP 5639 SGB 1840.3 R23 .0015 R13 -.8692 LSA 1126.4 MSA 260.7 SSA 16.4
 BOE 1.1095 BRA 2.2498 BC3 .2277 FSP -264 SG1 1786.3 SG2 442.3 THA .47 EL1 866.4 EL2 260.4 ALF 21.51

Orbit Determination Accuracy

LAUNCH DATE DEC 5 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 23 1969

Heliocentric Conic
 RL 147.41 LAL -0.00 LOL 72.93 VL 25.029 GAL 11.86 AZL 86.58 HCA 98.77 SMA 113.02 ECC .36180 INC 3.4196 V1 30.225
 RP 107.65 LAP 3.38 LOP 171.71 VP 35.937 GAP -21.04 AZP 90.52 TAL 157.24 TAP 256.00 RCA 72.13 APO 153.91 V2 35.202
 RC 48.064 GL 10.48 GP -.53 ZAL 47.85 ZAP 7.27 ETS 176.58 ZAE 150.34 ETE 202.67 ZAC 93.58 ETC 166.52 CLP 7.25

Distance 249.682

Planeto-centric Conic
 C3 64.525 VHL 8.033 DLA 19.76 RAL 20.05 RAD 6569.2 VEL 13.634 PTH 2.49 VHP 13.164 DPA -3.93 RAP 360.60 ECC 2.0619
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 49 3172.91 -26.44 108.84 270.86 79.48 5 51 42 2572.9 -27.63 100.37
 90.00 22 30 33 4481.10 8.98 187.79 258.94 63.03 23 45 14 3881.1 5.29 181.06
 100.00 6 32 41 2870.25 -28.39 86.97 271.25 80.24 7 20 31 2270.3 -29.45 78.32
 100.00 23 39 22 4259.00 10.74 170.54 258.01 61.94 24 50 21 3659.0 6.91 163.85
 110.00 8 7 50 2572.55 -33.38 65.26 272.15 82.16 8 50 42 1972.6 -34.10 56.09
 110.00 0 24 38 4129.45 15.13 158.17 255.45 58.98 1 33 28 3529.5 10.91 151.61

Differential Corrections
 TOE -.9541 TRA-2.2293 TC3 -.2172 BAU .1960 SGT 1854.6 SGR 434.4 SG3 108.3 ST 848.6 SR 392.1 SS 751.8
 RDE -.5456 RRA .2114 RC3 -.0668 FAU .01698 RRT .0392 RRF -.0344 RTF -.8774 CRT .7227 CRS .8140 CST .9893
 FDE .8148 FRA 1.3844 FC3 -.2278 BSP 5881 SGB 1904.8 R23 .0020 R13 -.8774 LSA 1171.8 MSA 256.8 SSA 16.5
 BOE 1.0991 BRA 2.2393 BC3 .2272 FSP -289 SG1 1854.7 SG2 434.0 THA .56 EL1 899.2 EL2 255.8 ALF 20.17

Orbit Determination Accuracy

LAUNCH DATE DEC 5 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 256.442

RL 147.41 LAL -.00 LOL 72.93 VL 25.260 GAL 11.35 AZL 86.57 MCA 102.00 SMA 114.15 ECC .34683 INC 3.4316 VI 30.225
 RP 107.68 LAP 3.36 LOP 174.95 VP 36.089 GAP -20.04 AZP 90.71 TAL 156.79 TAP 258.79 RCA 74.56 APO 153.74 V2 35.194
 RC 46.839 GL 11.06 GP -.57 ZAL 47.54 ZAP 5.90 ETS 175.36 ZAE 152.40 ETE 204.84 ZAC 95.39 ETC 166.61 CLP 5.88

PLANETOCENTRIC CONIC

C3 59.666 VHL 7.724 DLA 20.46 RAL 20.22 RAD 6569.1 VEL 13.454 PTH 2.46 VHP 12.600 DPA -3.20 RAP 2.31 ECC 1.9819
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 51 30 3183.46 -26.31 109.58 269.82 79.13 5 44 34 2583.5 -27.54 101.13
 90.00 22 39 14 4432.65 7.48 185.03 258.15 62.61 23 53 6 3832.6 3.75 178.34
 100.00 6 26 14 2878.01 -28.30 87.52 270.23 79.96 7 14 12 2278.0 -29.40 78.89
 100.00 23 47 11 4213.32 9.27 167.95 257.19 61.45 24 57 25 3613.3 5.38 161.32
 110.00 8 2 59 2575.29 -33.35 65.47 271.16 82.04 8 45 55 1975.3 -34.09 56.30
 110.00 0 30 51 4088.81 13.69 155.90 254.57 58.37 1 39 0 3488.8 9.41 149.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9620 TRA-2.2182 TC3 -.2136 BAU .1796
 RDE -.5140 RRA .1933 RC3 -.0714 FAU .01772
 FDE .8570 FRA 1.4359 FC3 -.2572 BSP 6128
 BDE 1.0907 BRA 2.2266 BC3 .2252 FSP -317

SGT 1924.1 SGR 425.4 SG3 117.7
 RRT .0485 RRF -.0425 RTF -.8851
 SGB 1970.6 R23 .0026 R13 -.8851
 SG1 1924.2 SG2 424.8 THA .65

ST 887.1 SR 384.0 SS 785.4
 CRT .7277 CRS .8181 CST .9893
 LSA 1219.6 MSA 252.1 SSA 16.5
 EL1 933.7 EL2 250.2 ALF 18.90

LAUNCH DATE DEC 5 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 263.217

RL 147.41 LAL -.00 LOL 72.93 VL 25.475 GAL 10.85 AZL 86.56 MCA 105.24 SMA 115.23 ECC .33261 INC 3.4438 VI 30.225
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.231 GAP -19.08 AZP 90.91 TAL 156.38 TAP 261.62 RCA 76.91 APO 153.56 V2 35.184
 RC 45.742 GL 11.67 GP -.61 ZAL 47.29 ZAP 4.53 ETS 173.27 ZAE 154.56 ETE 207.42 ZAC 97.19 ETC 166.69 CLP 4.49

PLANETOCENTRIC CONIC

C3 55.228 VHL 7.432 DLA 21.16 RAL 20.34 RAD 6569.0 VEL 13.289 PTH 2.43 VHP 12.053 DPA -2.47 RAP 4.01 ECC 1.9089
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 38 3195.02 -26.16 110.39 268.70 78.75 5 36 53 2595.0 -27.45 101.96
 90.00 22 48 3 4383.20 5.92 182.23 257.35 62.26 24 1 6 3783.2 2.16 175.57
 100.00 6 19 19 2886.50 -28.20 88.14 269.14 79.63 7 7 25 2286.5 -29.34 79.52
 100.00 23 55 3 4166.95 7.75 165.35 256.36 61.04 25 4 30 3566.9 3.83 158.75
 110.00 7 57 48 2578.37 -33.32 65.70 270.11 81.90 8 40 46 1978.4 -34.08 56.54
 110.00 0 36 59 4047.84 12.22 153.64 253.68 57.82 1 44 27 3447.8 7.88 147.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9701 TRA-2.2046 TC3 -.2074 BAU .1630
 RDE -.4833 RRA .1760 RC3 -.0759 FAU .01855
 FDE .9033 FRA 1.4907 FC3 -.2908 BSP 6379
 BDE 1.0838 BRA 2.2116 BC3 .2208 FSP -347

SGT 1994.1 SGR 415.6 SG3 127.9
 RRT .0582 RRF -.0511 RTF -.8924
 SGB 2036.9 R23 .0032 R13 -.8924
 SG1 1994.2 SG2 414.8 THA .73

ST 926.5 SR 375.2 SS 821.2
 CRT .7331 CRS .8224 CST .9894
 LSA 1269.7 MSA 247.0 SSA 16.5
 EL1 969.4 EL2 243.9 ALF 17.69

LAUNCH DATE DEC 5 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 270.002

RL 147.41 LAL -.00 LOL 72.93 VL 25.676 GAL 10.38 AZL 86.54 MCA 108.47 SMA 116.27 ECC .31911 INC 3.4565 VI 30.225
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.363 GAP -18.14 AZP 91.10 TAL 156.01 TAP 264.48 RCA 79.17 APO 153.37 V2 35.174
 RC 44.782 GL 12.29 GP -.65 ZAL 47.09 ZAP 3.15 ETS 169.14 ZAE 156.80 ETE 210.54 ZAC 98.97 ETC 166.76 CLP 3.08

PLANETOCENTRIC CONIC

C3 51.179 VHL 7.154 DLA 21.86 RAL 20.41 RAD 6568.9 VEL 13.135 PTH 2.40 VHP 11.523 DPA -1.76 RAP 5.69 ECC 1.8423
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 35 9 3207.86 -25.98 111.29 267.53 78.33 5 28 36 2607.9 -27.33 102.89
 90.00 22 57 4 4332.65 4.31 179.39 256.56 61.99 24 9 17 3732.7 .53 172.75
 100.00 6 11 53 2895.90 -28.08 88.81 267.99 79.31 7 0 9 2295.9 -29.27 80.21
 100.00 0 6 56 4119.84 6.19 162.72 255.53 60.70 1 15 36 3519.8 2.23 156.16
 110.00 7 52 15 2581.92 -33.29 65.97 269.00 81.75 8 35 17 1981.9 -34.07 56.82
 110.00 0 43 4 4006.59 10.71 151.39 252.79 57.34 1 49 51 3406.6 6.33 145.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9790 TRA-2.1887 TC3 -.1991 BAU .1469
 RDE -.4534 RRA .1595 RC3 -.0804 FAU .01947
 FDE .9542 FRA 1.5493 FC3 -.3294 BSP 6627
 BDE 1.0789 BRA 2.1945 BC3 .2147 FSP -381

SGT 2064.7 SGR 405.0 SG3 139.1
 RRT .0689 RRF -.0604 RTF -.8992
 SGB 2104.1 R23 .0040 R13 -.8992
 SG1 2064.9 SG2 404.0 THA .80

ST 967.4 SR 365.5 SS 859.4
 CRT .7392 CRS .8270 CST .9896
 LSA 1322.8 MSA 241.2 SSA 16.5
 EL1 1006.8 EL2 236.5 ALF 16.54

LAUNCH DATE DEC 5 1968

FLIGHT TIME 116.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 276.796

RL 147.41 LAL -.00 LOL 72.93 VL 25.863 GAL 9.93 AZL 86.53 MCA 111.70 SMA 117.26 ECC .30631 INC 3.4676 VI 30.225
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.485 GAP -17.24 AZP 91.28 TAL 155.68 TAP 267.38 RCA 81.34 APO 153.18 V2 35.164
 RC 43.971 GL 12.93 GP -.70 ZAL 46.96 ZAP 1.80 ETS 158.18 ZAE 159.08 ETE 214.39 ZAC 100.73 ETC 166.81 CLP 1.65

PLANETOCENTRIC CONIC

C3 47.488 VHL 6.891 DLA 22.56 RAL 20.42 RAD 6568.8 VEL 12.994 PTH 2.37 VHP 11.010 DPA -1.06 RAP 7.36 ECC 1.7815
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 58 3222.27 -25.78 112.30 266.30 77.86 5 19 40 2622.3 -27.20 103.92
 90.00 23 6 21 4280.87 2.65 176.49 255.78 61.80 24 17 42 3680.9 -1.14 169.86
 100.00 6 3 56 2906.42 -27.95 89.56 266.79 78.94 6 52 22 2306.4 -29.19 80.98
 100.00 0 15 1 4071.96 4.58 160.07 254.70 60.43 1 22 53 3472.0 .61 153.53
 110.00 7 46 20 2586.05 -33.25 66.29 267.85 81.56 8 29 26 1986.0 -34.06 57.14
 110.00 0 49 6 3965.10 9.18 149.16 251.89 56.93 1 55 11 3365.1 4.76 142.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9884 TRA-2.1704 TC3 -.1882 BAU .1310
 RDE -.4245 RRA .1438 RC3 -.0847 FAU .02049
 FDE 1.0103 FRA 1.6121 FC3 -.3736 BSP 6873
 BDE 1.0757 BRA 2.1752 BC3 .2064 FSP -418

SGT 2135.6 SGR 393.6 SG3 151.6
 RRT .0801 RRF -.0701 RTF -.9056
 SGB 2171.6 R23 .0050 R13 -.9056
 SG1 2135.9 SG2 392.3 THA .88

ST 1009.5 SR 355.1 SS 900.2
 CRT .7457 CRS .8318 CST .9897
 LSA 1378.4 MSA 234.9 SSA 16.5
 EL1 1045.4 EL2 228.4 ALF 15.45

LAUNCH DATE DEC 5 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC
 RL 147.41 LAL -.00 LOL 72.93 VL 26.038 GAL 9.50 AZL 86.52 HCA 114.93 SMA 118.21 ECC .29420 INC 3.4833 V1 30.225
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.599 GAP -16.37 AZP 91.47 TAL 155.39 TAP 270.32 RCA 83.43 APO 152.99 V2 35.153
 RC 43.319 GL 13.59 GP -.76 ZAL 46.87 ZAP .78 ETS 106.12 ZAE 161.35 ETE 219.22 ZAC 102.47 ETC 166.85 CLP .20

DISTANCE 283.594

PLANETOCENTRIC CONIC
 C3 44.126 VHL 6.643 DLA 23.25 RAL 20.38 RAD 6568.7 VEL 12.864 PTH 2.34 VHP 10.514 DPA -.37 RAP 9.00 ECC 1.7262
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 16 1 3238.62 -25.54 113.44 265.01 77.34 5 10 0 2638.6 -27.03 105.09
 90.00 23 16 0 4227.65 .93 173.52 255.00 61.70 24 26 28 3627.7 -2.86 166.89
 100.00 5 55 22 2918.27 -27.79 90.41 265.54 78.52 6 44 0 2318.3 -29.09 81.85
 100.00 0 23 16 4023.23 2.94 157.38 253.88 60.24 1 30 19 3423.2 -1.04 150.86
 110.00 7 40 1 2590.88 -33.20 66.66 266.66 81.35 8 23 12 1990.9 -34.04 57.52
 110.00 0 55 7 3923.39 7.62 146.93 250.99 56.58 2 0 30 3323.4 3.17 140.67

DIFFERENTIAL CORRECTIONS
 TDE -.9955 TRA-2.1725 TC3 -.1726 BAU .1146 SGT 2224.7 SGR 381.3 SG3 165.3 ST 1054.3 SR 343.8 SS 943.9
 RDE -.3963 RRA .1285 RC3 -.0889 FAU .02163 RRT .0880 RRF -.0815 RTF -.9119 CRT .7488 CRS .8371 CST .9890
 FDE 1.0725 FRA 1.6798 FC3 -.4243 BSP 7182 SGB 2257.2 R23 .0012 R13 -.9119 LSA 1437.8 MSA 230.9 S3A 16.3
 BDE 1.0715 BRA 2.1763 BC3 .1942 FSP -459 SG1 2225.0 SG2 379.7 THA .89 EL1 1086.7 EL2 221.1 ALF 14.33

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 5 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC
 RL 147.41 LAL -.00 LOL 72.93 VL 26.201 GAL 9.09 AZL 86.50 HCA 118.16 SMA 119.11 ECC .28277 INC 3.4978 V1 30.225
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.704 GAP -15.52 AZP 91.65 TAL 155.13 TAP 273.29 RCA 85.43 APO 152.79 V2 35.141
 RC 42.834 GL 14.26 GP -.82 ZAL 46.84 ZAP 1.52 ETS 34.10 ZAE 163.54 ETE 225.37 ZAC 104.17 ETC 166.88 CLP -1.28

DISTANCE 290.593

PLANETOCENTRIC CONIC
 C3 41.065 VHL 6.408 DLA 23.95 RAL 20.29 RAD 6568.6 VEL 12.745 PTH 2.32 VHP 10.033 DPA .29 RAP 10.62 ECC 1.6758
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 5 10 3257.34 -25.26 114.74 263.66 76.75 4 59 27 2657.3 -26.83 106.42
 90.00 23 26 8 4172.69 -.84 170.46 254.25 61.69 24 35 41 3572.7 -4.62 163.81
 100.00 5 46 9 2931.73 -27.60 91.36 264.25 78.05 6 35 1 2331.7 -28.97 82.83
 100.00 0 31 46 3973.54 1.26 154.66 253.08 60.13 1 37 59 3373.5 -2.72 148.13
 110.00 7 33 18 2596.52 -33.14 67.09 265.43 81.10 8 16 34 1996.5 -34.02 57.96
 110.00 1 1 7 3881.51 6.05 144.71 250.11 56.29 2 5 48 3281.5 1.58 138.48

DIFFERENTIAL CORRECTIONS
 TDE-1.0059 TRA-2.1241 TC3 -.1540 BAU .0987 SGT 2272.9 SGR 368.6 SG3 180.4 ST 1094.3 SR 331.8 SS 990.1
 RDE -.3691 RRA .1153 RC3 -.0929 FAU .02293 RRT .1026 RRF -.0902 RTF -.9178 CRT .7595 CRS .8420 CST .9901
 FDE 1.1405 FRA 1.7519 FC3 -.4835 BSP 7433 SGB 2302.8 R23 .0065 R13 -.9178 LSA 1496.2 MSA 221.4 S3A 16.3
 BDE 1.0715 BRA 2.1272 BC3 .1799 FSP -507 SG1 2273.2 SG2 366.6 THA .98 EL1 1124.0 EL2 210.1 ALF 13.45

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 5 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC
 RL 147.41 LAL -.00 LOL 72.93 VL 26.352 GAL 8.70 AZL 86.49 HCA 121.38 SMA 119.97 ECC .27198 INC 3.5131 V1 30.225
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.801 GAP -14.71 AZP 91.83 TAL 154.92 TAP 276.30 RCA 87.34 APO 152.60 V2 35.129
 RC 42.524 GL 14.95 GP -.90 ZAL 46.87 ZAP 2.93 ETS 19.23 ZAE 165.54 ETE 233.29 ZAC 105.85 ETC 166.91 CLP -2.79

DISTANCE 297.191

PLANETOCENTRIC CONIC
 C3 38.284 VHL 6.187 DLA 24.64 RAL 20.15 RAD 6568.5 VEL 12.635 PTH 2.29 VHP 9.568 DPA .93 RAP 12.21 ECC 1.6301
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 53 15 3279.08 -24.91 116.23 262.26 76.08 4 47 54 2679.1 -26.58 107.96
 90.00 23 36 56 4115.52 -2.69 167.27 253.52 61.80 24 45 31 3515.5 -6.44 160.59
 100.00 5 36 13 2947.11 -27.38 92.45 262.91 77.52 6 25 20 2347.1 -28.83 83.95
 100.00 0 40 35 3922.73 -.46 151.87 252.29 60.11 1 45 58 3322.7 -4.44 145.33
 110.00 7 26 10 2603.13 -33.07 67.59 264.17 80.81 8 9 33 2003.1 -33.99 56.47
 110.00 1 7 8 3839.47 4.45 142.50 249.23 56.07 2 11 7 3239.5 -.03 136.29

DIFFERENTIAL CORRECTIONS
 TDE-1.0175 TRA-2.0994 TC3 -.1342 BAU .0847 SGT 2343.1 SGR 354.9 SG3 197.3 ST 1140.0 SR 319.0 SS 1040.8
 RDE -.3428 RRA .1024 RC3 -.0967 FAU .02433 RRT .1151 RRF -.1007 RTF -.9231 CRT .7673 CRS .8474 CST .9904
 FDE 1.2176 FRA 1.8313 FC3 -.5503 BSP 7663 SGB 2369.9 R23 .0080 R13 -.9231 LSA 1561.5 MSA 214.0 S3A 16.2
 BDE 1.0737 BRA 2.1019 BC3 .1654 FSP -.557 SG1 2343.5 SG2 352.5 THA 1.02 EL1 1166.8 EL2 199.9 ALF 12.49

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 5 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC
 RL 147.41 LAL -.00 LOL 72.93 VL 26.493 GAL 8.33 AZL 86.47 HCA 124.61 SMA 120.78 ECC .26183 INC 3.5295 V1 30.225
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.890 GAP -13.92 AZP 92.01 TAL 154.74 TAP 279.35 RCA 89.16 APO 152.40 V2 35.117
 RC 42.392 GL 15.66 GP -.98 ZAL 46.94 ZAP 4.45 ETS 14.24 ZAE 167.23 ETE 243.40 ZAC 107.49 ETC 166.92 CLP -4.34

DISTANCE 303.986

PLANETOCENTRIC CONIC
 C3 35.758 VHL 5.980 DLA 25.34 RAL 19.96 RAD 6568.4 VEL 12.535 PTH 2.27 VHP 9.119 DPA 1.54 RAP 13.77 ECC 1.5885
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 1 3304.71 -24.48 117.99 260.80 75.30 4 35 5 2704.7 -26.26 109.77
 90.00 23 48 39 4055.40 -4.61 163.90 252.84 62.03 24 56 15 3455.4 -8.32 157.18
 100.00 5 25 26 2964.82 -27.12 93.70 261.53 76.91 6 14 51 2364.8 -28.65 85.23
 100.00 0 49 51 3870.52 -2.23 149.00 251.53 60.18 1 54 21 3270.5 -6.19 142.44
 110.00 7 18 35 2610.83 -32.99 68.17 262.88 80.48 8 2 6 2010.8 -33.95 59.07
 110.00 1 13 11 3797.28 2.85 140.29 248.36 55.92 2 16 29 3197.3 -1.65 134.09

DIFFERENTIAL CORRECTIONS
 TDE-1.0291 TRA-2.0720 TC3 -.1106 BAU .0713 SGT 2411.4 SGR 340.5 SG3 216.1 ST 1186.0 SR 305.3 SS 1095.2
 RDE -.3172 RRA .0906 RC3 -.1002 FAU .02590 RRT .1272 RRF -.1109 RTF -.9282 CRT .7752 CRS .8528 CST .9907
 FDE 1.3035 FRA 1.9174 FC3 -.6271 BSP 7899 SGB 2435.3 R23 .0097 R13 -.9282 LSA 1629.8 MSA 206.5 S3A 16.0
 BDE 1.0769 BRA 2.0739 BC3 .1492 FSP -614 SG1 2411.8 SG2 337.7 THA 1.05 EL1 1210.0 EL2 189.0 ALF 11.57

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 5 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 310.774

RL 147.41 LAL -0.00 LOL 72.93 VL 26.623 GAL 7.98 AZL 86.45 HCA 127.83 SMA 121.55 ECC .25229 INC 3.5473 V1 30.225
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.972 GAP -13.15 AZP 92.18 TAL 154.60 TAP 282.43 RCA 90.88 APO 152.21 V2 35.105
 RC 42.442 GL 16.38 GP -1.08 ZAL 47.07 ZAP 6.03 ETS 11.89 ZAE 168.45 ETE 255.82 ZAC 109.09 ETC 166.93 CLP -5.93

PLANETOCENTRIC CONIC

C3 33.468 VHL 5.785 CLA 26.03 RAL 19.72 RAD 6568.3 VEL 12.443 PTH 2.25 VHP 8.684 DPA 2.12 RAP 15.29 ECC 1.5508
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 25 2 3335.65 -23.93 120.09 259.28 74.39 4 20 37 2735.7 -25.84 111.94
 90.00 0 5 39 3991.04 -6.66 160.27 252.22 62.41 1 12 11 3391.0 -10.30 153.49
 100.00 5 13 40 2985.40 -26.79 95.15 260.11 76.22 6 3 26 2385.4 -28.42 86.72
 100.00 0 59 42 3816.53 -4.06 146.03 250.80 60.36 2 3 19 3216.5 -7.97 139.43
 110.00 7 10 32 2619.77 -32.88 68.85 261.58 80.09 7 54 12 2019.8 -33.90 59.76
 110.00 1 19 20 3754.93 1.23 138.08 247.51 55.84 2 21 55 3154.9 -3.26 131.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.0413 TRA-2.0424 TC3 -.0839 BAU .0595 SGT 2478.0 SGR 325.4 SG3 237.0 ST 1232.7 SR 290.7 SS 1154.0
 RDE -.2923 RRA .0799 RC3 -.1033 FAU .02764 RRT .1388 RRF -.1202 RTF -.9329 CRT .7833 CRS .8582 CST .9911
 FDE 1.4000 FRA 2.0116 FC3 -.7151 BSP 8122 SGB 2499.3 R23 .0116 R13 -.9329 LSA 1701.8 MSA 198.9 SSA 15.7
 BOE 1.0815 BRA 2.0440 BC3 .1331 FSP -677 SG1 2478.4 SG2 322.2 THA 1.06 EL1 1254.0 EL2 177.7 ALF 10.68

LAUNCH DATE DEC 5 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 317.554

RL 147.41 LAL -0.00 LOL 72.93 VL 26.744 GAL 7.65 AZL 86.43 HCA 131.05 SMA 122.27 ECC .24335 INC 3.5666 V1 30.225
 RP 107.99 LAP 2.69 LOP 204.03 VP 37.048 GAP -12.41 AZP 92.34 TAL 154.49 TAP 285.54 RCA 92.52 APO 152.03 V2 35.092
 RC 42.671 GL 17.11 GP -1.19 ZAL 47.24 ZAP 7.67 ETS 10.60 ZAE 169.05 ETE 269.91 ZAC 110.64 ETC 166.94 CLP -7.58

PLANETOCENTRIC CONIC

C3 31.395 VHL 5.603 CLA 26.72 RAL 19.44 RAD 6568.3 VEL 12.360 PTH 2.23 VHP 8.265 DPA 2.66 RAP 16.77 ECC 1.5167
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 7 31 3374.48 -23.19 122.69 257.66 73.28 4 3 46 2774.5 -25.26 114.64
 90.00 0 20 53 3920.01 -8.87 156.23 251.70 63.00 1 26 13 3320.0 -12.43 149.36
 100.00 5 0 42 3009.62 -26.39 96.83 258.64 75.42 5 50 52 2409.6 -28.13 88.46
 100.00 1 10 23 3760.10 -5.95 142.91 250.12 60.65 2 13 3 3160.1 -9.82 136.26
 110.00 7 1 59 2630.11 -32.76 69.63 260.26 79.64 7 45 49 2030.1 -33.84 60.56
 110.00 1 25 35 3712.37 -4.0 135.86 246.68 55.82 2 27 28 3112.4 -4.88 129.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.0540 TRA-2.0108 TC3 -.0547 BAU .0501 SGT 2542.6 SGR 309.4 SG3 260.3 ST 1280.1 SR 275.2 SS 1217.7
 RDE -.2681 RRA .0704 RC3 -.1061 FAU .02958 RRT .1490 RRF -.1279 RTF -.9373 CRT .7913 CRS .8634 CST .9914
 FDE 1.5087 FRA 2.1149 FC3 -.8157 BSP 8323 SGB 2561.4 R23 .0140 R13 -.9373 LSA 1777.7 MSA 191.3 SSA 15.4
 BOE 1.0875 BRA 2.0121 BC3 .1193 FSP -747 SG1 2543.0 SG2 305.9 THA 1.05 EL1 1298.8 EL2 165.9 ALF 9.82

LAUNCH DATE DEC 5 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 324.324

RL 147.41 LAL -0.00 LOL 72.93 VL 26.856 GAL 7.33 AZL 86.41 HCA 134.26 SMA 122.95 ECC .23498 INC 3.5879 V1 30.225
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.116 GAP -11.70 AZP 92.51 TAL 154.43 TAP 288.69 RCA 94.06 APO 151.84 V2 35.080
 RC 43.078 GL 17.87 GP -1.33 ZAL 47.46 ZAP 9.37 ETS 9.85 ZAE 169.00 ETE 284.09 ZAC 112.14 ETC 166.95 CLP -9.28

PLANETOCENTRIC CONIC

C3 29.521 VHL 5.433 CLA 27.41 RAL 19.10 RAD 6568.2 VEL 12.284 PTH 2.21 VHP 7.859 DPA 3.16 RAP 18.22 ECC 1.4858
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 41 3427.07 -22.12 126.18 255.88 71.85 3 42 48 2827.1 -24.39 118.24
 90.00 0 40 4 3836.54 -11.42 151.42 251.35 63.91 1 44 1 3236.5 -14.83 144.41
 100.00 4 46 10 3038.68 -25.87 98.84 257.13 74.48 5 36 48 2438.7 -27.75 90.54
 100.00 1 22 16 3700.16 -7.94 139.57 249.51 61.09 2 23 57 3100.2 -11.73 132.84
 110.00 6 52 54 2642.08 -32.61 70.53 258.94 79.13 7 36 56 2042.1 -33.76 61.49
 110.00 1 32 2 3669.53 -2.04 133.62 245.88 55.87 2 33 11 3069.5 -6.50 127.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.0636 TRA-1.9738 TC3 -.0180 BAU .0433 SGT 2599.2 SGR 292.6 SG3 286.3 ST 1324.0 SR 258.5 SS 1285.4
 RDE -.2442 RRA .0622 RC3 -.1083 FAU .03184 RRT .1551 RRF -.1318 RTF -.9416 CRT .7985 CRS .8682 CST .9917
 FDE 1.6296 FRA 2.2265 FC3 -.9336 BSP 8593 SGB 2615.6 R23 .0163 R13 -.9416 LSA 1854.1 MSA 184.1 SSA 15.0
 BOE 1.0913 BRA 1.9748 BC3 .1098 FSP -829 SG1 2599.6 SG2 289.0 THA 1.01 EL1 1340.2 EL2 153.7 ALF 8.98

LAUNCH DATE DEC 5 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 331.082

RL 147.41 LAL -0.00 LOL 72.93 VL 26.960 GAL 7.04 AZL 86.39 HCA 137.48 SMA 123.59 ECC .22716 INC 3.6117 V1 30.225
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.179 GAP -11.00 AZP 92.66 TAL 154.39 TAP 291.86 RCA 95.51 APO 151.66 V2 35.067
 RC 43.658 GL 18.63 GP -1.48 ZAL 47.72 ZAP 11.14 ETS 9.42 ZAE 168.38 ETE 296.73 ZAC 113.58 ETC 166.97 CLP -11.04

PLANETOCENTRIC CONIC

C3 27.833 VHL 5.276 CLA 28.10 RAL 18.73 RAD 6568.1 VEL 12.215 PTH 2.19 VHP 7.468 DPA 3.61 RAP 19.61 ECC 1.4581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 12 0 3517.66 -20.08 132.04 253.68 69.61 3 10 38 2917.7 -22.68 124.33
 90.00 1 10 45 3716.52 -14.90 144.33 251.45 65.64 2 12 41 3116.5 -18.07 137.08
 100.00 4 29 24 3074.69 -25.19 101.30 255.54 73.36 5 20 39 2474.7 -27.23 93.09
 100.00 1 36 2 3634.72 -10.07 135.88 249.00 61.71 2 36 36 3034.7 -13.77 129.05
 110.00 6 43 12 2655.93 -32.43 71.57 257.60 78.54 7 27 28 2055.9 -33.67 62.56
 110.00 1 38 43 3626.26 -3.69 131.36 245.12 55.99 2 39 10 3026.3 -8.13 125.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.0764 TRA-1.9375 TC3 .0171 BAU .0416 SGT 2656.5 SGR 275.1 SG3 315.5 ST 1370.7 SR 240.6 SS 1360.2
 RDE -.2207 RRA .0553 RC3 -.1104 FAU .03428 RRT .1584 RRF -.1316 RTF -.9454 CRT .8054 CRS .8725 CST .9921
 FDE 1.7683 FRA 2.3512 FC3 -1.0662 BSP 8774 SGB 2670.7 R23 .0200 R13 -.9454 LSA 1937.8 MSA 176.9 SSA 14.5
 BOE 1.0988 BRA 1.9383 BC3 .1117 FSP -917 SG1 2656.9 SG2 271.5 THA .95 EL1 1384.5 EL2 141.2 ALF 8.13

LAUNCH DATE DEC 5 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 337.826

RL 147.41 LAL -0.00 LOL 72.93 VL 27.055 GAL 6.76 AZL 86.36 HCA 140.69 SMA 124.18 ECC .21988 INC 3.6385 V1 30.225
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.236 GAP -10.33 AZP 92.82 TAL 154.38 TAP 295.07 RCA 96.88 APO 151.49 V2 35.053
 RC 44.405 GL 19.41 GP -1.67 ZAL 48.02 ZAP 12.98 ETS 9.20 ZAE 167.38 ETE 306.97 ZAC 114.96 ETC 167.00 CLP -12.88

PLANETOCENTRIC CONIC

C3 26.315 VHL 5.130 DLA 28.79 RAL 18.31 RAD 6568.1 VEL 12.153 PTH 2.18 VHP 7.091 OPA 3.99 RAP 20.94 ECC 1.4331
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.55 0 54 26 3749.67 -18.26 148.28 251.45 67.34 1 56 56 3149.7 -21.17 140.78
 95.45 2 24 58 3456.64 -18.24 126.80 251.44 67.33 3 22 35 2856.6 -21.16 119.30
 100.00 4 9 2 3122.17 -24.23 104.50 253.83 71.94 5 1 4 2522.2 -26.47 96.41
 100.00 1 53 4 3559.38 -12.47 131.58 248.65 62.61 2 52 23 2959.4 -16.04 124.61
 110.00 6 32 49 2671.99 -32.20 72.77 256.27 77.86 7 17 21 2072.0 -33.54 63.80
 110.00 1 45 46 3582.33 -5.36 129.06 244.40 56.19 2 45 28 2982.3 -9.76 122.74

DIFFERENTIAL CORRECTIONS

TDE-1.0856 TRA-1.8952 TC3 .0593 BAU .0446
 RDE -.1971 RRA .0501 RC3 -.1122 FAU .03711
 FDE 1.9238 FRA 2.4865 FC3-1.2209 BSP 9019
 BDE 1.1034 BRA 1.8958 BC3 .1269 FSP -1021

MID-COURSE EXECUTION ACCURACY

SGT 2703.3 SGR 256.5 SG3 348.1
 RRT .1527 RRF -.1227 RTF -.9491
 SGB 2715.5 R23 .0238 R13 -.9491
 SG1 2703.6 SG2 253.5 THA .84

ORBIT DETERMINATION ACCURACY

ST 1412.6 SR 221.0 SS 1439.8
 CRT .8106 CRS .8756 CST .9924
 LSA 2021.9 MSA 170.3 SSA 13.9
 EL1 1424.0 EL2 128.4 ALF 7.29

LAUNCH DATE DEC 5 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 344.555

RL 147.41 LAL -0.00 LOL 72.93 VL 27.143 GAL 6.50 AZL 86.33 HCA 143.90 SMA 124.74 ECC .21311 INC 3.6693 V1 30.225
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.287 GAP -9.67 AZP 92.97 TAL 154.40 TAP 298.30 RCA 98.16 APO 151.32 V2 35.040
 RC 45.309 GL 20.21 GP -1.90 ZAL 48.36 ZAP 14.92 ETS 9.15 ZAE 166.18 ETE 314.81 ZAC 116.26 ETC 167.05 CLP -14.80

PLANETOCENTRIC CONIC

C3 24.956 VHL 4.996 DLA 29.49 RAL 17.85 RAD 6568.0 VEL 12.097 PTH 2.17 VHP 6.728 OPA 4.30 RAP 22.22 ECC 1.4107
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.40 0 27 27 3817.48 -19.02 153.62 250.31 67.03 1 31 5 3217.5 -21.97 146.09
 98.60 2 48 17 3362.65 -19.01 120.21 250.30 67.02 3 44 19 2762.6 -21.96 112.69
 100.00 3 40 26 3195.69 -22.59 109.34 251.81 69.89 4 33 42 2595.7 -25.13 101.46
 100.00 2 17 58 3459.67 -15.51 125.74 248.64 64.12 3 15 38 2859.7 -18.87 118.55
 110.00 6 21 35 2690.75 -31.93 74.17 254.92 77.08 7 6 26 2090.7 -33.37 65.23
 110.00 1 53 19 3537.37 -7.05 126.68 243.73 56.47 2 52 16 2937.4 -11.41 120.30

DIFFERENTIAL CORRECTIONS

TDE-1.0938 TRA-1.8500 TC3 .1039 BAU .0514
 RDE -.1733 RRA .0466 RC3 -.1139 FAU .04030
 FDE 2.1007 FRA 2.6360 FC3-1.3980 BSP 9243
 BDE 1.1075 BRA 1.8506 BC3 .1542 FSP -1137

MID-COURSE EXECUTION ACCURACY

SGT 2743.4 SGR 237.1 SG3 384.6
 RRT .1349 RRF -.1009 RTF -.9525
 SGB 2753.7 R23 .0288 R13 -.9525
 SG1 2743.6 SG2 234.9 THA .67

ORBIT DETERMINATION ACCURACY

ST 1452.1 SR 199.6 SS 1526.1
 CRT .8136 CRS .8768 CST .9928
 LSA 2109.6 MSA 164.2 SSA 13.1
 EL1 1461.2 EL2 115.4 ALF 6.42

LAUNCH DATE DEC 5 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 351.268

RL 147.41 LAL -0.00 LOL 72.93 VL 27.224 GAL 6.26 AZL 86.29 HCA 147.10 SMA 125.26 ECC .20684 INC 3.7051 V1 30.225
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.334 GAP -9.04 AZP 93.11 TAL 154.44 TAP 301.55 RCA 99.35 APO 151.17 V2 35.027
 RC 46.364 GL 21.03 GP -2.18 ZAL 48.74 ZAP 16.95 ETS 9.23 ZAE 164.92 ETE 320.64 ZAC 117.49 ETC 167.13 CLP -16.81

PLANETOCENTRIC CONIC

C3 23.747 VHL 4.873 DLA 30.19 RAL 17.35 RAD 6568.0 VEL 12.047 PTH 2.15 VHP 6.379 OPA 4.52 RAP 23.43 ECC 1.3908
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.06 0 7 31 3862.61 -19.78 157.31 249.19 66.71 1 11 53 3262.6 -22.76 149.76
 100.94 3 4 13 3293.12 -19.77 115.39 249.19 66.70 3 59 7 2693.1 -22.75 107.84
 79.06 0 7 31 3862.61 -19.78 157.31 249.19 66.71 1 11 53 3262.6 -22.76 149.76
 100.94 3 4 13 3293.12 -19.77 115.39 249.19 66.70 3 59 7 2693.1 -22.75 107.84
 110.00 6 9 20 2712.93 -31.58 75.80 253.58 76.17 6 54 32 2112.9 -33.15 66.93
 110.00 2 1 35 3490.79 -8.80 124.20 243.12 56.83 2 59 46 2890.8 -13.10 117.75

DIFFERENTIAL CORRECTIONS

TDE-1.1030 TRA-1.8037 TC3 .1465 BAU .0593
 RDE -.1487 RRA .0453 RC3 -.1160 FAU .04381
 FDE 2.3049 FRA 2.8028 FC3-1.5973 BSP 9404
 BDE 1.1129 BRA 1.8043 BC3 .1869 FSP -1266

MID-COURSE EXECUTION ACCURACY

SGT 2778.9 SGR 217.1 SG3 426.0
 RRT .0984 RRF -.0588 RTF -.9556
 SGB 2787.4 R23 .0360 R13 -.9556
 SG1 2779.0 SG2 216.1 THA .44

ORBIT DETERMINATION ACCURACY

ST 1491.2 SR 175.9 SS 1621.4
 CRT .8127 CRS .8747 CST .9931
 LSA 2204.2 MSA 158.6 SSA 12.3
 EL1 1498.0 EL2 102.0 ALF 5.50

LAUNCH DATE DEC 5 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 357.963

RL 147.41 LAL -0.00 LOL 72.93 VL 27.298 GAL 6.03 AZL 86.25 HCA 150.31 SMA 125.74 ECC .20104 INC 3.7477 V1 30.225
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.375 GAP -8.42 AZP 93.26 TAL 154.51 TAP 304.82 RCA 100.46 APO 151.02 V2 35.013
 RC 47.558 GL 21.88 GP -2.53 ZAL 49.15 ZAP 19.09 ETS 9.44 ZAE 163.71 ETE 324.83 ZAC 118.63 ETC 167.26 CLP -18.93

PLANETOCENTRIC CONIC

C3 22.676 VHL 4.762 DLA 30.91 RAL 16.80 RAD 6567.9 VEL 12.002 PTH 2.14 VHP 6.044 OPA 4.63 RAP 24.56 ECC 1.3732
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.06 23 46 43 3897.95 -20.53 160.31 248.11 66.37 24 51 41 3298.0 -23.55 152.73
 102.94 3 16 45 3235.29 -20.52 111.41 248.10 66.36 4 10 40 2635.3 -23.54 103.83
 77.06 23 46 43 3897.95 -20.53 160.31 248.11 66.37 24 51 41 3298.0 -23.55 152.73
 102.94 3 16 45 3235.29 -20.52 111.41 248.10 66.36 4 10 40 2635.3 -23.54 103.83
 110.00 5 55 39 2739.70 -31.12 77.76 252.21 75.10 6 41 18 2139.7 -32.85 68.96
 110.00 2 10 56 3441.54 -10.62 121.55 242.61 57.32 3 8 17 2841.5 -14.85 115.01

DIFFERENTIAL CORRECTIONS

TDE-1.0958 TRA-1.7391 TC3 .2154 BAU .0745
 RDE -.1225 RRA .0469 RC3 -.1183 FAU .04844
 FDE 2.5238 FRA 2.9715 FC3-1.8493 BSP 9898
 BDE 1.1026 BRA 1.7397 BC3 .2457 FSP -1442

MID-COURSE EXECUTION ACCURACY

SGT 2780.0 SGR 196.8 SG3 470.8
 RRT .0195 RRF .0235 RTF -.9591
 SGB 2787.0 R23 .0423 R13 -.9591
 SG1 2780.0 SG2 196.7 THA .08

ORBIT DETERMINATION ACCURACY

ST 1507.9 SR 148.7 SS 1715.0
 CRT .8019 CRS .8652 CST .9932
 LSA 2283.2 MSA 154.4 SSA 11.1
 EL1 1512.6 EL2 88.6 ALF 4.54

LAUNCH DATE DEC 5 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 364.646

RL 147.41 LAL -.00 LOL 72.93 VL 27.366 GAL 5.83 AZL 86.20 MCA 153.51 SMA 126.18 ECC .19571 INC 3.7995 V1 30.225
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.412 GAP -7.82 AZP 93.40 TAL 154.59 TAP 308.10 RCA 101.49 APO 150.88 V2 35.000
 RC 48.883 GL 22.76 GP -2.98 ZAL 49.60 ZAP 21.36 ETS 9.79 ZAE 162.61 ETE 327.70 ZAC 119.67 ETC 167.45 CLP -21.16

PLANETOCENTRIC CONIC

C3 21.748 VHL 4.664 CLA 31.65 RAL 16.23 RAD 6567.9 VEL 11.964 PTH 2.13 VHP 5.723 DPA 4.60 RAP 25.63 ECC 1.3579
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.23 23 31 34 3928.26 -21.28 162.95 247.08 65.99 24 37 2 3328.3 -24.34 155.34
 104.77 3 27 17 3184.74 -21.26 107.94 247.07 65.98 4 20 22 2584.7 -24.32 100.34
 75.23 23 31 34 3928.26 -21.28 162.95 247.08 65.99 24 37 2 3328.3 -24.34 155.34
 104.77 3 27 17 3184.74 -21.26 107.94 247.07 65.98 4 20 22 2584.7 -24.32 100.34
 110.00 5 39 56 2773.16 -30.51 80.17 250.83 73.79 6 26 9 2173.2 -32.43 71.48
 110.00 2 22 2 3387.83 -12.58 118.62 242.24 57.95 3 18 30 2787.8 -16.72 111.97

DIFFERENTIAL CORRECTIONS

TDE-1.1640 TRA-1.7486 TC3 .1411 BAU .0547
 RDE -.0951 RRA .0505 RC3 -.1247 FAU .04973
 FDE 2.8658 FRA 3.2489 FC3-1.9796 BSP 8489
 BDE 1.1679 BRA 1.7494 BC3 .1883 FSP -1467

MID-COURSE EXECUTION ACCURACY

SGT 2903.8 SGR 180.3 SG3 531.2
 RRT -.0619 RRF .1314 RTF -.9586
 SGB 2909.4 R23 -.0720 R13 .9586
 SG1 2903.9 SG2 179.9 THA 179.78

ORBIT DETERMINATION ACCURACY

ST 1618.2 SR 118.9 SS 1875.1
 CRT .7821 CRS .8435 CST .9942
 LSA 2475.2 MSA 147.9 SSA 10.8
 EL1 1620.9 EL2 74.0 ALF 3.30

LAUNCH DATE DEC 5 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 371.302

RL 147.41 LAL -.00 LOL 72.93 VL 27.428 GAL 5.63 AZL 86.14 MCA 156.71 SMA 126.59 ECC .19080 INC 3.8644 V1 30.225
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.445 GAP -7.24 AZP 93.55 TAL 154.69 TAP 311.39 RCA 102.44 APO 150.74 V2 34.987
 RC 50.327 GL 23.70 GP -3.56 ZAL 50.10 ZAP 23.79 ETS 10.29 ZAE 161.66 ETE 329.38 ZAC 120.62 ETC 167.75 CLP -23.54

PLANETOCENTRIC CONIC

C3 20.947 VHL 4.577 CLA 32.44 RAL 15.58 RAD 6567.9 VEL 11.930 PTH 2.12 VHP 5.417 DPA 4.39 RAP 26.62 ECC 1.3447
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.47 23 17 12 3956.08 -22.03 165.43 246.07 65.56 24 23 8 3356.1 -25.14 157.80
 106.53 3 36 32 3138.84 -22.01 104.81 246.06 65.55 4 28 51 2538.8 -25.12 97.19
 73.47 23 17 12 3956.08 -22.03 165.43 246.07 65.56 24 23 8 3356.1 -25.14 157.80
 106.53 3 36 32 3138.84 -22.01 104.81 246.06 65.55 4 28 51 2538.8 -25.12 97.19
 110.00 5 20 43 2817.34 -29.63 83.31 249.34 72.12 6 7 41 2217.3 -31.79 74.76
 110.00 2 36 7 3325.58 -14.80 115.17 242.06 58.83 3 31 33 2725.6 -18.82 108.36

DIFFERENTIAL CORRECTIONS

TDE-1.1394 TRA-1.6622 TC3 .2302 BAU .0741
 RDE -.0622 RRA .0603 RC3 -.1306 FAU .05602
 FDE 3.1496 FRA 3.4412 FC3-2.3154 BSP 9238
 BDE 1.1411 BRA 1.6633 BC3 .2646 FSP -1712

MID-COURSE EXECUTION ACCURACY

SGT 2856.2 SGR 168.3 SG3 586.6
 RRT -.2799 RRF .3524 RTF -.9621
 SGB 2861.2 R23 -.0857 R13 .9621
 SG1 2856.6 SG2 161.6 THA 179.05

ORBIT DETERMINATION ACCURACY

ST 1606.7 SR 82.4 SS 1979.7
 CRT .6885 CRS .7619 CST .9941
 LSA 2546.8 MSA 146.1 SSA 9.2
 EL1 1607.7 EL2 59.7 ALF 2.03

LAUNCH DATE DEC 5 1968

FLIGHT TIME 146.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 377.940

RL 147.41 LAL -.00 LOL 72.93 VL 27.484 GAL 5.45 AZL 86.05 MCA 159.90 SMA 126.96 ECC .18632 INC 3.9485 V1 30.225
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.474 GAP -6.68 AZP 93.71 TAL 154.79 TAP 314.70 RCA 103.31 APO 150.62 V2 34.974
 RC 51.881 GL 24.73 GP -4.34 ZAL 50.64 ZAP 26.39 ETS 11.01 ZAE 160.85 ETE 329.91 ZAC 121.46 ETC 168.18 CLP -26.06

PLANETOCENTRIC CONIC

C3 20.288 VHL 4.504 CLA 33.30 RAL 14.88 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 5.125 DPA 3.94 RAP 27.55 ECC 1.3339
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.70 23 3 2 3983.53 -22.79 167.92 245.13 65.04 24 9 26 3383.5 -25.96 160.27
 108.30 3 45 4 3096.07 -22.78 101.90 245.12 65.03 4 36 40 2496.1 -25.95 94.26
 71.70 23 3 2 3983.53 -22.79 167.92 245.13 65.04 24 9 26 3383.5 -25.96 160.27
 108.30 3 45 4 3096.07 -22.78 101.90 245.12 65.03 4 36 40 2496.1 -25.95 94.26
 110.00 4 54 24 2883.44 -28.16 87.89 247.60 69.77 5 42 28 2283.4 -30.65 79.58
 110.00 2 56 48 3244.17 -17.61 110.54 242.27 60.22 3 50 52 2644.2 -21.44 103.50

DIFFERENTIAL CORRECTIONS

TDE-1.1387 TRA-1.5970 TC3 .2652 BAU .0816
 RDE -.0232 RRA .0758 RC3 -.1417 FAU .06151
 FDE 3.5172 FRA 3.6841 FC3-2.6248 BSP 9313
 BDE 1.1389 BRA 1.5988 BC3 .3007 FSP -1920

MID-COURSE EXECUTION ACCURACY

SGT 2839.4 SGR 174.6 SG3 652.6
 RRT -.5413 RRF .6196 RTF -.9640
 SGB 2844.8 R23 -.1147 R13 .9642
 SG1 2841.0 SG2 146.7 THA 178.09

ORBIT DETERMINATION ACCURACY

ST 1621.6 SR 45.6 SS 2116.8
 CRT .2354 CRS .3364 CST .9943
 LSA 2663.0 MSA 144.5 SSA 7.9
 EL1 1621.7 EL2 44.4 ALF .38

LAUNCH DATE DEC 5 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 384.558

RL 147.41 LAL -.00 LOL 72.93 VL 27.535 GAL 5.29 AZL 85.94 MCA 163.10 SMA 127.31 ECC .18225 INC 4.0630 V1 30.225
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.500 GAP -6.13 AZP 93.89 TAL 154.91 TAP 318.00 RCA 104.10 APO 150.51 V2 34.961
 RC 53.536 GL 25.90 GP -5.43 ZAL 51.27 ZAP 29.21 ETS 12.03 ZAE 160.15 ETE 329.15 ZAC 122.21 ETC 168.84 CLP -28.75

PLANETOCENTRIC CONIC

C3 19.785 VHL 4.448 CLA 34.28 RAL 14.07 RAD 6567.8 VEL 11.881 PTH 2.11 VHP 4.851 DPA 3.13 RAP 28.44 ECC 1.3256
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.83 22 48 20 4012.74 -23.59 170.60 244.24 64.38 23 55 13 3412.7 -26.84 162.93
 110.17 3 53 21 3054.92 -23.58 99.12 244.24 64.37 4 44 16 2454.9 -26.83 91.45
 69.83 22 48 20 4012.74 -23.59 170.60 244.24 64.38 23 55 13 3412.7 -26.84 162.93
 110.17 3 53 21 3054.92 -23.58 99.12 244.24 64.37 4 44 16 2454.9 -26.83 91.45
 69.83 22 48 20 4012.74 -23.59 170.60 244.24 64.38 23 55 13 3412.7 -26.84 162.93
 110.17 3 53 21 3054.92 -23.58 99.12 244.24 64.37 4 44 16 2454.9 -26.83 91.45

DIFFERENTIAL CORRECTIONS

TDE-1.1358 TRA-1.5259 TC3 .2934 BAU .0884
 RDE .0268 RRA .1007 RC3 -.1601 FAU .06760
 FDE 3.9503 FRA 3.9410 FC3-2.9580 BSP 9343
 BDE 1.1361 BRA 1.5292 BC3 .3342 FSP -2156

MID-COURSE EXECUTION ACCURACY

SGT 2804.7 SGR 214.8 SG3 725.7
 RRT -.7657 RRF .8399 RTF -.9654
 SGB 2812.9 R23 -.1538 R13 .9659
 SG1 2809.5 SG2 137.9 THA 176.64

ORBIT DETERMINATION ACCURACY

ST 1627.8 SR 58.6 SS 2268.3
 CRT -.8832 CRS -.8296 CST .9943
 LSA 2788.8 MSA 144.3 SSA 6.4
 EL1 1628.6 EL2 27.5 ALF 178.18

LAUNCH DATE DEC 5 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 391.156

RL 147.41 LAL -1.00 LOL 72.93 VL 27.581 GAL 5.14 AZL 85.77 MCA 166.29 SMA 127.62 ECC .17856 INC 4.2286 V1 30.225
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.522 GAP -5.60 AZP 94.11 TAL 155.02 TAP 321.31 RCA 104.83 APO 150.40 V2 34.948
 RC 55.282 GL 27.32 GP -7.05 ZAL 52.02 ZAP 32.32 ETS 13.54 ZAE 159.41 ETE 326.71 ZAC 122.88 ETC 169.86 CLP -31.62

PLANETOCENTRIC CONIC

C3 19.483 VHL 4.414 DLA 35.47 RAL 13.10 RAD 6567.8 VEL 11.869 PTH 2.11 VHP 4.596 DPA 1.77 RAP 29.36 ECC 1.3206
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.69 22 32 4 4046.53 -24.46 173.73 243.43 63.48 23 39 30 3446.5 -27.82 166.05
 112.31 4 1 52 3013.82 -24.45 96.35 243.43 63.47 4 52 5 2413.8 -27.81 88.67
 67.69 22 32 4 4046.53 -24.46 173.73 243.43 63.48 23 39 30 3446.5 -27.82 166.05
 112.31 4 1 52 3013.82 -24.45 96.35 243.43 63.47 4 52 5 2413.8 -27.81 88.67
 67.69 22 32 4 4046.53 -24.46 173.73 243.43 63.48 23 39 30 3446.5 -27.82 166.05
 112.31 4 1 52 3013.82 -24.45 96.35 243.43 63.47 4 52 5 2413.8 -27.81 88.67

DIFFERENTIAL CORRECTIONS

TDE -1.1372 TRA -1.4514 TC3 .3015 BAU .0929
 RDE .0973 RRA .1408 RC3 -.1905 FAU .07365
 FDE 4.4809 FRA 4.2100 FC3 -3.2729 BSP 9223
 BDE 1.1414 BRA 1.4582 BC3 .3566 FSP -2395

MID-COURSE EXECUTION ACCURACY

SGT 2757.1 SGR 307.5 SG3 806.8
 RRT -.8849 RRF .9492 RTF -.9663
 SGB 2774.2 R23 -.1973 R13 .9673
 SG1 2770.5 SG2 142.6 THA 174.35

ORBIT DETERMINATION ACCURACY

ST 1631.2 SR 143.2 SS 2444.3
 CRT -.9983 CRS -.9875 CST .9943
 LSA 2938.5 MSA 145.7 SSA 4.9
 EL1 1637.5 EL2 8.4 ALF 174.99

LAUNCH DATE DEC 5 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 397.732

RL 147.41 LAL -1.00 LOL 72.93 VL 27.623 GAL 5.01 AZL 85.51 MCA 169.48 SMA 127.90 ECC .17524 INC 4.4922 V1 30.225
 RP 108.47 LAP .82 LOP 242.44 VP 37.541 GAP -5.07 AZP 94.42 TAL 155.13 TAP 324.61 RCA 105.48 APO 150.31 V2 34.936
 RC 57.109 GL 29.22 GP -9.66 ZAL 53.01 ZAP 35.84 ETS 15.92 ZAE 158.26 ETE 321.89 ZAC 123.53 ETC 171.56 CLP -34.69

PLANETOCENTRIC CONIC

C3 19.493 VHL 4.415 DLA 37.08 RAL 11.80 RAD 6567.8 VEL 11.869 PTH 2.11 VHP 4.369 DPA -.59 RAP 30.49 ECC 1.3208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.00 22 12 19 4089.90 -25.48 177.79 242.72 62.10 23 20 29 3489.9 -29.00 170.12
 115.00 4 11 15 2970.70 -25.47 93.46 242.72 62.09 5 0 45 2370.7 -28.99 85.80
 65.00 22 12 19 4089.90 -25.48 177.79 242.72 62.10 23 20 29 3489.9 -29.00 170.12
 115.00 4 11 15 2970.70 -25.47 93.46 242.72 62.09 5 0 45 2370.7 -28.99 85.80
 65.00 22 12 19 4089.90 -25.48 177.79 242.72 62.10 23 20 29 3489.9 -29.00 170.12
 115.00 4 11 15 2970.70 -25.47 93.46 242.72 62.09 5 0 45 2370.7 -28.99 85.80

DIFFERENTIAL CORRECTIONS

TDE -1.1441 TRA -1.3667 TC3 .2968 BAU .0998
 RDE .2094 RRA .2073 RC3 -.2422 FAU .07969
 FDE 5.1340 FRA 4.4443 FC3 -3.5393 BSP 9097
 BDE 1.1631 BRA 1.3823 BC3 .3831 FSP -2648

MID-COURSE EXECUTION ACCURACY

SGT 2686.0 SGR 483.0 SG3 891.3
 RRT -.9320 RRF .9868 RTF -.9665
 SGB 2729.1 R23 -.2268 R13 .9690
 SG1 2723.6 SG2 172.7 THA 170.45

ORBIT DETERMINATION ACCURACY

ST 1627.6 SR 290.0 SS 2645.3
 CRT -.9977 CRS -.9991 CST .9942
 LSA 3115.9 MSA 149.4 SSA 3.5
 EL1 1653.1 EL2 19.4 ALF 169.92

LAUNCH DATE DEC 5 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 404.287

RL 147.41 LAL -1.00 LOL 72.93 VL 27.660 GAL 4.89 AZL 85.02 MCA 172.67 SMA 128.15 ECC .17227 INC 4.9814 V1 30.225
 RP 108.51 LAP .64 LOP 245.62 VP 37.556 GAP -4.57 AZP 94.94 TAL 155.23 TAP 327.90 RCA 106.07 APO 150.23 V2 34.923
 RC 59.010 GL 32.20 GP -14.47 ZAL 54.58 ZAP 40.21 ETS 20.12 ZAE 155.56 ETE 313.54 ZAC 124.23 ETC 174.80 CLP -37.94

PLANETOCENTRIC CONIC

C3 20.169 VHL 4.491 DLA 39.59 RAL 9.73 RAD 6567.8 VEL 11.897 PTH 2.11 VHP 4.199 DPA -5.05 RAP 32.31 ECC 1.3319
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.09 21 44 48 4153.65 -26.77 183.85 242.16 59.67 22 54 1 3553.6 -30.58 176.25
 118.91 4 22 14 2923.15 -26.76 90.34 242.15 59.66 5 10 57 2323.2 -30.57 82.74
 61.09 21 44 48 4153.65 -26.77 183.85 242.16 59.67 22 54 1 3553.6 -30.58 176.25
 118.91 4 22 14 2923.15 -26.76 90.34 242.15 59.66 5 10 57 2323.2 -30.57 82.74
 61.09 21 44 48 4153.65 -26.77 183.85 242.16 59.67 22 54 1 3553.6 -30.58 176.25
 118.91 4 22 14 2923.15 -26.76 90.34 242.15 59.66 5 10 57 2323.2 -30.57 82.74

DIFFERENTIAL CORRECTIONS

TDE -1.1768 TRA -1.2692 TC3 .2692 BAU .1154
 RDE .4260 RRA .3263 RC3 -.3329 FAU .08386
 FDE 5.9645 FRA 4.5279 FC3 -3.5996 BSP 9056
 BDE 1.2516 BRA 1.3105 BC3 .4281 FSP -2871

MID-COURSE EXECUTION ACCURACY

SGT 2593.8 SGR 822.6 SG3 964.3
 RRT -.9483 RRF .9969 RTF -.9658
 SGB 2721.1 R23 -.2283 R13 .9726
 SG1 2709.6 SG2 249.8 THA 163.11

ORBIT DETERMINATION ACCURACY

ST 1628.4 SR 567.2 SS 2879.2
 CRT -.9941 CRS -1.0000 CST .9939
 LSA 3352.4 MSA 157.0 SSA 2.1
 EL1 1723.4 EL2 58.0 ALF 160.88

LAUNCH DATE DEC 5 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 410.818

RL 147.41 LAL -1.00 LOL 72.93 VL 27.693 GAL 4.79 AZL 83.78 MCA 175.85 SMA 128.38 ECC .16965 INC 6.2148 V1 30.225
 RP 108.55 LAP .45 LOP 248.80 VP 37.570 GAP -4.07 AZP 96.20 TAL 155.32 TAP 331.17 RCA 106.60 APO 150.16 V2 34.911
 RC 60.976 GL 38.30 GP -25.85 ZAL 57.99 ZAP 47.36 ETS 29.04 ZAE 146.87 ETE 301.05 ZAC 124.91 ETC 182.83 CLP -41.17

PLANETOCENTRIC CONIC

C3 23.242 VHL 4.821 DLA 44.63 RAL 5.04 RAD 6567.9 VEL 12.026 PTH 2.15 VHP 4.250 DPA -15.52 RAP 36.83 ECC 1.3825
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.93 20 55 49 4270.70 -28.42 195.30 241.82 54.01 22 7 0 3670.7 -32.90 188.01
 126.07 4 33 48 2874.53 -28.41 87.31 241.81 54.00 5 21 42 2274.5 -32.89 80.02
 53.93 20 55 49 4270.70 -28.42 195.30 241.82 54.01 22 7 0 3670.7 -32.90 188.01
 126.07 4 33 48 2874.53 -28.41 87.31 241.81 54.00 5 21 42 2274.5 -32.89 80.02
 53.93 20 55 49 4270.70 -28.42 195.30 241.82 54.01 22 7 0 3670.7 -32.90 188.01
 126.07 4 33 48 2874.53 -28.41 87.31 241.81 54.00 5 21 42 2274.5 -32.89 80.02

DIFFERENTIAL CORRECTIONS

TDE -1.3398 TRA -1.1489 TC3 .2028 BAU .1623
 RDE 1.0267 RRA .5578 RC3 -.4815 FAU .07774
 FDE 6.9472 FRA 3.9484 FC3 -2.8958 BSP 9710
 BDE 1.6879 BRA 1.2771 BC3 .5224 FSP -2833

MID-COURSE EXECUTION ACCURACY

SGT 2501.1 SGR 1603.8 SG3 944.3
 RRT -.9526 RRF .9992 RTF -.9638
 SGB 2971.1 R23 -.1803 R13 .9835
 SG1 2942.0 SG2 414.7 THA 147.87

ORBIT DETERMINATION ACCURACY

ST 1693.2 SR 1251.8 SS 3117.9
 CRT -.9926 CRS -.9999 CST .9937
 LSA 3758.4 MSA 171.5 SSA .8
 EL1 2102.1 EL2 122.7 ALF 143.58

LAUNCH DATE DEC 5 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 417.311

RL 147.41 LAL -0.00 LOL 72.93 VL 27.722 GAL 4.70 AZL 74.59 HCA 179.02 SMA 128.58 ECC .16737 INC15.4167 V1 30.225
 RP 108.58 LAP .26 LOP 251.98 VP 37.580 GAP -3.59 AZP 105.41 TAL 155.39 TAP 334.40 RCA 107.06 APO 150.10 V2 34.900
 RC 63.000 GL 59.17 GP -68.24 ZAL 72.89 ZAP 72.29 ETS 60.91 ZAE 106.38 ETE 302.71 ZAC 117.86 ETC 222.85 CLP -34.86

PLANETOCENTRIC CONIC

C3 73.149 VHL 8.553 DLA 58.28 RAL 338.04 RAD 6569.4 VEL 13.946 PTH 2.55 VHP 8.416 DPA -50.28 RAP 67.77 ECC 2.203H
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.67 18 13 46 4680.85 -19.66 227.70 235.30 33.93 19 31 47 4080.8 -26.22 223.15
 143.33 3 40 27 3032.71 -19.64 93.49 235.28 33.93 4 30 59 2432.7 -26.21 88.94
 36.67 18 13 46 4680.85 -19.66 227.70 235.30 33.93 19 31 47 4080.8 -26.22 223.15
 143.33 3 40 27 3032.71 -19.64 93.49 235.28 33.93 4 30 59 2432.7 -26.21 88.94
 36.67 18 13 46 4680.85 -19.66 227.70 235.30 33.93 19 31 47 4080.8 -26.22 223.15
 143.33 3 40 27 3032.71 -19.64 93.49 235.28 33.93 4 30 59 2432.7 -26.21 88.94

DIFFERENTIAL CORRECTIONS

TDE -4.5194 TRA -8.848 TC3 -.0036 BAU .1519
 ROE 4.5207 RRA .1560 RC3 -.1552 FAU .00868
 FDE 4.6347 FRA .4164 FC3 -.1027 BSP 15275
 BDE 6.3923 BRA .8492 BC3 .1553 FSP -969

MID-COURSE EXECUTION ACCURACY

SGT 3209.0 SGR 3046.6 SG3 272.6
 RRT -.9593 RRF .9942 RTF -.9842
 SGB 4424.9 R23 -.0426 R13 .9991
 SG1 4379.8 SG2 630.3 THA 136.55

ORBIT DETERMINATION ACCURACY

ST 3044.4 SR 3029.1 SS 2260.6
 CRT -.9964 CRS -.9995 CST .9986
 LSA 4849.7 MSA 184.7 SSA .7
 EL1 4290.7 EL2 183.3 ALF 135.14

LAUNCH DATE DEC 5 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 423.837

RL 147.41 LAL -0.00 LOL 72.93 VL 27.747 GAL 4.62 AZL 91.89 HCA 182.23 SMA 128.75 ECC .16532 INC 1.8814 V1 30.225
 RP 108.62 LAP .07 LOP 255.15 VP 37.589 GAP -3.11 AZP 88.11 TAL 155.48 TAP 337.70 RCA 107.47 APO 150.04 V2 34.889
 RC 65.076 GL -14.30 GP 45.93 ZAL 47.84 ZAP 62.26 ETS 330.14 ZAE 135.70 ETE 74.19 ZAC 100.27 ETC 149.93 CLP -47.99

PLANETOCENTRIC CONIC

C3 13.643 VHL 3.694 DLA -3.04 RAL 29.96 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 4.810 DPA 48.75 RAP .81 ECC 1.2245
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 47 45 2032.64 -14.78 30.28 244.93 114.43 9 21 37 1432.6 -11.36 23.27
 90.00 20 0 40 4865.22 19.73 210.85 246.03 69.27 21 21 45 4265.2 16.73 203.46
 100.00 10 7 40 1774.82 -15.68 10.88 244.49 115.78 10 37 15 1174.8 -12.09 3.94
 100.00 21 23 25 4598.27 20.66 190.83 245.64 67.90 22 40 4 3998.3 17.48 183.48
 110.00 11 12 40 1571.37 -18.08 354.13 243.18 119.52 11 38 51 971.4 -14.02 347.37
 110.00 22 34 55 4374.49 23.13 172.66 244.45 64.10 23 47 50 3774.5 19.46 165.45

DIFFERENTIAL CORRECTIONS

TDE -.4162 TRA -1.1782 TC3 .2171 BAU .2879
 ROE -.4240 RRA -1.8881 RC3 1.5636 FAU .06691
 FDE 1.2050 FRA 5.0467 FC3 -4.2463 BSP 11421
 BDE .5941 BRA 2.2256 BC3 1.5786 FSP -2199

MID-COURSE EXECUTION ACCURACY

SGT 1947.4 SGR 3220.1 SG3 747.2
 RRT -.9533 RRF -.9999 RTF -.9535
 SGB 3763.2 R23 -.0794 R13 -.9968
 SG1 3728.7 SG2 508.0 THA 59.41

ORBIT DETERMINATION ACCURACY

ST 847.6 SR 1099.1 SS 1249.0
 CRT .9747 CRS .9996 CST .9808
 LSA 1860.4 MSA 159.1 SSA 2.8
 EL1 1379.7 EL2 151.1 ALF 52.54

LAUNCH DATE DEC 5 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 430.299

RL 147.41 LAL -0.00 LOL 72.93 VL 27.769 GAL 4.56 AZL 88.78 HCA 185.40 SMA 128.91 ECC .16364 INC 1.2148 V1 30.225
 RP 108.65 LAP -.11 LOP 258.33 VP 37.595 GAP -2.65 AZP 91.21 TAL 155.51 TAP 340.91 RCA 107.81 APO 150.00 V2 34.878
 RC 67.198 GL 9.45 GP 23.54 ZAL 46.86 ZAP 57.34 ETS 346.02 ZAE 157.38 ETE 67.36 ZAC 109.43 ETC 156.27 CLP -53.94

PLANETOCENTRIC CONIC

C3 12.852 VHL 3.585 DLA 19.13 RAL 21.28 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 3.576 DPA 28.36 RAP 13.20 ECC 1.2115
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 45 2755.87 -28.00 78.61 241.88 94.41 5 56 40 2155.9 -27.09 70.06
 90.00 22 28 28 4116.13 -2.67 167.30 236.40 61.80 23 37 4 3516.1 -6.42 160.63
 100.00 6 43 53 2455.52 -29.31 56.38 241.74 96.16 7 24 48 1855.5 -28.15 47.77
 100.00 23 38 1 3891.71 -1.52 150.17 235.76 60.14 24 42 52 3291.7 -5.48 143.62
 110.00 8 17 40 2162.11 -32.64 33.52 241.16 100.76 8 53 42 1562.1 -30.81 24.77
 110.00 0 24 39 3757.89 1.34 138.23 233.97 55.84 1 27 17 3157.9 -3.15 132.03

DIFFERENTIAL CORRECTIONS

TDE -.4318 TRA -.9000 TC3 .1338 BAU .1730
 ROE -.4820 RRA -.9402 RC3 .9981 FAU .11905
 FDE 4.0766 FRA 7.3731 FC3 -8.0195 BSP 8295
 BDE .6471 BRA 1.3015 BC3 1.0070 FSP -3953

MID-COURSE EXECUTION ACCURACY

SGT 1674.3 SGR 1906.6 SG3 1313.4
 RRT .9466 RRF -.9996 RTF -.9444
 SGB 2537.4 R23 -.1471 R13 -.9887
 SG1 2503.9 SG2 411.2 THA 48.92

ORBIT DETERMINATION ACCURACY

ST 827.5 SR 906.4 SS 2322.0
 CRT .9993 CRS .9994 CST .9978
 LSA 2625.8 MSA 55.7 SSA 8.3
 EL1 1227.2 EL2 22.2 ALF 47.61

LAUNCH DATE DEC 5 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 436.744

RL 147.41 LAL -0.00 LOL 72.93 VL 27.788 GAL 4.51 AZL 87.77 HCA 188.58 SMA 129.04 ECC .16223 INC 2.0284 V1 30.225
 RP 108.68 LAP -.30 LOP 261.50 VP 37.599 GAP -2.20 AZP 92.01 TAL 155.52 TAP 344.10 RCA 108.10 APO 149.97 V2 34.867
 RC 69.360 GL 15.59 GP 16.00 ZAL 48.24 ZAP 60.22 ETS 352.62 ZAE 165.05 ETE 66.16 ZAC 111.01 ETC 159.48 CLP -58.89

PLANETOCENTRIC CONIC

C3 13.313 VHL 3.649 DLA 24.74 RAL 18.61 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 3.273 DPA 20.85 RAP 15.19 ECC 1.2191
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 23 3031.23 -27.80 98.70 241.72 84.38 4 35 55 2431.2 -28.29 90.06
 90.00 23 32 27 3855.99 -10.83 152.55 236.60 63.68 24 36 43 3256.0 -14.28 145.57
 100.00 5 28 40 2698.25 -29.73 74.37 241.89 86.73 6 13 38 2098.2 -29.87 65.57
 100.00 0 35 48 3664.21 -9.11 137.55 235.69 61.41 1 36 52 3064.2 -12.86 130.77
 110.00 7 19 3 2352.93 -34.12 48.19 241.94 92.21 7 58 15 1752.9 -33.44 39.01
 110.00 1 1 55 3582.29 -5.36 129.05 233.40 56.19 2 1 37 2982.3 -9.76 122.73

DIFFERENTIAL CORRECTIONS

TDE -.3659 TRA -.7179 TC3 -.0003 BAU .1254
 ROE -.3895 RRA -.6491 RC3 .7047 FAU .14056
 FDE 5.6346 FRA 8.2028 FC3 -9.1403 BSP 6677
 BDE .5344 BRA .9679 BC3 .7047 FSP -4777

MID-COURSE EXECUTION ACCURACY

SGT 1367.8 SGR 1377.8 SG3 1555.0
 RRT .9257 RRF -.9985 RTF -.9216
 SGB 1941.4 R23 -.1981 R13 -.9787
 SG1 1905.0 SG2 374.2 THA 45.22

ORBIT DETERMINATION ACCURACY

ST 684.7 SR 698.4 SS 2776.9
 CRT .9972 CRS .9985 CST .9918
 LSA 2942.7 MSA 90.9 SSA 6.6
 EL1 977.3 EL2 36.7 ALF 45.57

LAUNCH DATE DEC 5 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -0.00 LOL 72.93 VL 27.804 GAL 4.48 AZL 87.60 HCA 191.75 SMA 129.15 ECC .16109 INC 2.4021 V1 30.225
 RP 108.72 LAP -1.49 LOP 264.67 VP 37.602 GAP -1.76 AZP 92.35 TAL 155.50 TAP 347.25 RCA 108.34 APO 149.95 V2 34.858
 RC 71.560 GL 18.38 GP 12.31 ZAL 49.05 ZAP 64.65 ETS 356.00 ZAE 169.32 ETE 73.46 ZAC 110.61 ETC 161.40 CLP -64.01

PLANETOCENTRIC CONIC

C3 13.577 VHL 3.685 DLA 27.28 RAL 17.31 RAD 6567.5 VEL 11.617 PTH 2.04 VHP 3.099 OPA 16.72 RAP 15.03 ECC 1.2234
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 42 53 3228.81 -25.69 112.76 240.93 77.66 3 36 41 2628.8 -27.13 104.39
 90.00 0 28 35 3666.94 -16.27 141.33 237.68 66.50 1 29 42 3066.9 -19.31 133.98
 100.00 4 41 38 2845.99 -28.66 85.21 241.56 81.12 5 29 4 2246.0 -29.59 76.53
 100.00 1 12 31 3525.00 -13.54 129.58 236.34 63.09 2 11 16 2925.0 -17.04 122.54
 110.00 6 47 14 2452.92 -34.11 56.00 242.19 87.59 7 28 7 1852.9 -34.07 46.75
 110.00 1 23 24 3490.83 -8.80 124.20 233.55 56.83 2 21 34 2890.8 -13.10 117.75

DIFFERENTIAL CORRECTIONS

TDE -.2533 TRA -.5377 TC3 -.1640 BAU .1063
 RDE -.3168 RRA -.5134 RC3 .5620 FAU .15445
 FDE 6.7160 FRA 8.8166 FC3-9.8482 BSP 5302
 BOE .4057 BRA .7434 BC3 .5854 FSP -5332

MID-COURSE EXECUTION ACCURACY

SGT 1027.0 SGR 1105.0 SG3 1727.3
 RRT .8715 RRF -.9961 RTF -.8644
 SGB 1508.5 R23 -.2400 R13 -.9668
 SG1 1459.6 SG2 381.3 THA 47.40

ORBIT DETERMINATION ACCURACY

ST 484.6 SR 561.7 SS 3058.6
 CRT .9922 CRS .9965 CST .9788
 LSA 3145.5 MSA 107.0 SSA 7.0
 EL1 740.4 EL2 45.7 ALF 49.24

LAUNCH DATE DEC 5 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -0.00 LOL 72.93 VL 27.817 GAL 4.46 AZL 87.38 HCA 194.93 SMA 129.24 ECC .16022 INC 2.6185 V1 30.225
 RP 108.74 LAP -.67 LOP 267.84 VP 37.603 GAP -1.32 AZP 92.53 TAL 155.45 TAP 350.38 RCA 108.53 APO 149.95 V2 34.848
 RC 73.792 GL 19.99 GP 10.12 ZAL 49.53 ZAP 69.70 ETS 358.03 ZAE 171.76 ETE 92.21 ZAC 109.34 ETC 162.72 CLP -69.37

PLANETOCENTRIC CONIC

C3 13.743 VHL 3.707 DLA 28.75 RAL 16.58 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 2.976 OPA 13.83 RAP 13.97 ECC 1.2262
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.80 0 49 34 3590.52 -21.94 138.09 239.37 70.94 1 49 24 2990.5 -24.34 130.20
 95.20 2 16 3 3310.55 -21.93 117.57 239.36 70.92 3 11 13 2710.6 -24.33 109.69
 100.00 4 3 25 2965.36 -27.11 93.74 241.01 76.89 4 52 50 2365.4 -28.64 85.27
 100.00 1 44 53 3410.95 -16.94 122.82 237.22 65.00 2 41 44 2811.0 -20.17 115.52
 110.00 6 26 27 2517.50 -33.81 61.02 242.27 84.64 7 8 25 1917.5 -34.18 51.79
 110.00 1 38 19 3431.57 -10.99 121.01 233.86 57.43 2 35 31 2831.6 -15.20 114.45

DIFFERENTIAL CORRECTIONS

TDE -.1076 TRA -.3469 TC3 -.3487 BAU .1091
 RDE -.2585 RRA -.4325 RC3 .4809 FAU .16573
 FDE 7.5336 FRA 9.3151 FC-10.4396 BSP 4027
 BOE .2800 BRA .5545 BC3 .5940 FSP -5803

MID-COURSE EXECUTION ACCURACY

SGT 684.5 SGR 931.8 SG3 1863.4
 RRT .6908 RRF -.9919 RTF -.6759
 SGB 1156.2 R23 -.2603 R13 -.9573
 SG1 1073.4 SG2 429.6 THA 57.20

ORBIT DETERMINATION ACCURACY

ST 247.8 SR 460.5 SS 3250.8
 CRT .9495 CRS .9928 CST .9061
 LSA 3290.5 MSA 117.2 SSA 7.5
 EL1 518.4 EL2 69.0 ALF 62.41

LAUNCH DATE DEC 5 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -0.00 LOL 72.93 VL 27.828 GAL 4.45 AZL 87.24 HCA 198.10 SMA 129.31 ECC .15960 INC 2.7604 V1 30.225
 RP 108.77 LAP -.86 LOP 271.00 VP 37.602 GAP -.90 AZP 92.62 TAL 155.37 TAP 353.47 RCA 108.67 APO 149.95 V2 34.839
 RC 76.053 GL 21.02 GP 8.64 ZAL 49.81 ZAP 75.10 ETS 359.37 ZAE 172.03 ETE 119.94 ZAC 107.57 ETC 163.70 CLP -74.93

PLANETOCENTRIC CONIC

C3 13.874 VHL 3.725 DLA 29.72 RAL 16.15 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 2.887 OPA 11.49 RAP 12.41 ECC 1.2283
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.58 0 14 17 3700.47 -22.60 146.45 239.35 70.17 1 15 58 3100.5 -25.10 138.56
 99.42 2 47 53 3204.75 -22.59 110.01 239.35 70.15 3 41 18 2604.7 -25.08 102.12
 100.00 3 19 30 3103.71 -24.61 103.26 240.10 72.48 4 11 13 2503.7 -26.78 95.13
 100.00 2 25 22 3276.73 -20.60 114.54 238.53 67.85 3 19 58 2676.7 -23.43 106.88
 110.00 6 11 33 2564.26 -33.45 64.62 242.33 82.53 6 54 17 1964.3 -34.13 55.44
 110.00 1 49 47 3388.96 -12.54 118.69 234.23 57.94 2 46 16 2789.0 -16.68 112.03

DIFFERENTIAL CORRECTIONS

TDE .0621 TRA -.1450 TC3 -.5541 BAU .1298
 RDE -.2091 RRA -.3769 RC3 .4274 FAU .17472
 FDE 8.1531 FRA 9.7024 FC-10.9022 BSP 2880
 BOE .2181 BRA .4038 BC3 .6998 FSP -6191

MID-COURSE EXECUTION ACCURACY

SGT 495.4 SGR 806.5 SG3 1967.5
 RRT .0233 RRF -.9851 RTF .0121
 SGB 946.5 R23 -.0489 R13 -.9845
 SG1 806.6 SG2 495.2 THA 88.69

ORBIT DETERMINATION ACCURACY

ST 123.3 SR 379.0 SS 3383.0
 CRT -.3297 CRS .9861 CST -.4805
 LSA 3404.1 MSA 124.8 SSA 8.1
 EL1 381.4 EL2 115.7 ALF 96.75

LAUNCH DATE DEC 5 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -0.00 LOL 72.93 VL 27.836 GAL 4.46 AZL 87.14 HCA 201.27 SMA 129.37 ECC .15923 INC 2.8612 V1 30.225
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.601 GAP -.48 AZP 92.67 TAL 155.25 TAP 356.52 RCA 108.77 APO 149.97 V2 34.831
 RC 78.340 GL 21.73 GP 7.54 ZAL 49.95 ZAP 80.72 ETS .31 ZAE 170.15 ETE 142.94 ZAC 105.50 ETC 164.46 CLP -80.64

PLANETOCENTRIC CONIC

C3 14.000 VHL 3.742 DLA 30.40 RAL 15.92 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 2.828 OPA 9.45 RAP 10.55 ECC 1.2304
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.44 23 53 14 3754.07 -23.05 150.62 239.46 69.60 24 55 49 3154.1 -25.62 142.72
 101.56 3 3 9 3155.11 -23.04 106.50 239.45 69.59 3 55 44 2555.1 -25.61 98.60
 78.44 23 53 14 3754.07 -23.05 150.62 239.46 69.60 24 55 49 3154.1 -25.62 142.72
 101.56 3 3 9 3155.11 -23.04 106.50 239.45 69.59 3 55 44 2555.1 -25.61 98.60
 110.00 6 0 20 2600.54 -33.10 67.39 242.45 80.93 6 43 41 2000.5 -34.00 58.27
 110.00 1 59 10 3356.63 -13.70 116.90 234.66 58.37 2 55 6 2756.6 -17.78 110.17

DIFFERENTIAL CORRECTIONS

TDE .2494 TRA .0661 TC3 -.7767 BAU .1625
 RDE -.1649 RRA -.3344 RC3 .3880 FAU .18118
 FDE 8.5773 FRA 9.9544 FC-11.2043 BSP 2258
 BOE .2990 BRA .3408 BC3 .8682 FSP -6500

MID-COURSE EXECUTION ACCURACY

SGT 705.3 SGR 707.4 SG3 2035.8
 RRT -.6711 RRF -.9744 RTF .7199
 SGB 998.9 R23 .3123 R13 -.9273
 SG1 913.1 SG2 405.1 THA 134.87

ORBIT DETERMINATION ACCURACY

ST 383.9 SR 309.1 SS 3462.0
 CRT -.8667 CRS .9735 CST -.9574
 LSA 3494.5 MSA 131.0 SSA 8.6
 EL1 477.0 EL2 124.1 ALF 142.07

LAUNCH DATE DEC 5 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 468.646

RL 147.41 LAL -.00 LOL 72.93 VL 27.841 GAL 4.48 AZL 87.06 MCA 204.44 SMA 129.41 ECC .15909 INC 2.9367 V1 30.225
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.598 GAP -.06 A2P 92.67 TAL 155.10 TAP 359.54 RCA 108.82 APO 150.00 V2 34.824
 RC 80.651 GL 22.22 GP 6.69 ZAL 49.98 ZAP 86.44 ETS 1.00 ZAE 167.02 ETE 156.40 ZAC 103.27 ETC 165.04 CLP -86.42

PLANETOCENTRIC CONIC

C3 14.138 VHL 3.760 DLA 30.91 RAL 15.83 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 2.798 DPA 7.59 RAP 8.53 ECC 1.2327
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.05 23 42 48 3788.25 -23.37 153.31 239.67 69.16 24 45 56 3188.2 -25.99 145.41
 102.95 3 12 56 3125.25 -23.36 104.39 239.67 69.15 4 5 1 2525.2 -25.98 96.49
 77.05 23 42 48 3788.25 -23.37 153.31 239.67 69.16 24 45 56 3188.2 -25.99 145.41
 102.95 3 12 56 3125.25 -23.36 104.39 239.67 69.15 4 5 1 2525.2 -25.98 96.49
 110.00 5 51 44 2629.98 -32.76 69.62 242.64 79.65 6 35 34 2030.0 -33.84 60.55
 110.00 2 7 7 3331.51 -14.59 115.50 235.14 58.74 3 2 38 2731.5 -18.62 108.71

DIFFERENTIAL CORRECTIONS

TDE .4482 TRA .2835 TC3-1.0092 BAU .2023
 RDE -.1244 RRA -.2999 RC3 .3559 FAU .18451
 FDE 8.8102 FRA10.0631 FC-11.2986 BSP 2716
 BOE .4651 BRA .4127 BC3 1.0701 FSP -6696

MID-COURSE EXECUTION ACCURACY

SGT 1138.4 SGR 625.6 SG3 2066.2
 RRT -.8437 RRF -.9586 RTF .9042
 SGB 1298.9 R23 .2546 R13 -.9411
 SG1 1263.2 SG2 302.7 THA 153.49

ORBIT DETERMINATION ACCURACY

ST 699.8 SR 248.1 SS 3494.8
 CRT -.8858 CRS .9490 CST -.9868
 LSA 3570.1 MSA 136.5 SSA 9.1
 EL1 734.4 EL2 109.7 ALF 162.16

LAUNCH DATE DEC 5 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 474.961

RL 147.41 LAL -.00 LOL 72.93 VL 27.845 GAL 4.51 AZL 87.00 MCA 207.60 SMA 129.43 ECC .15919 INC 2.9958 V1 30.225
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.594 GAP .35 A2P 92.66 TAL 154.91 TAP 2.51 RCA 108.83 APO 150.04 V2 34.816
 RC 82.981 GL 22.56 GP 5.98 ZAL 49.92 ZAP 92.17 ETS 1.50 ZAE 163.38 ETE 163.94 ZAC 100.99 ETC 165.49 CLP -92.18

PLANETOCENTRIC CONIC

C3 14.298 VHL 3.781 DLA 31.30 RAL 15.87 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 2.793 DPA 5.87 RAP 6.47 ECC 1.2353
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.07 23 36 2 3812.57 -23.59 155.24 240.00 68.80 24 39 35 3212.6 -26.25 147.34
 103.93 3 20 1 3105.91 -23.57 103.02 240.00 68.79 4 11 47 2505.9 -26.24 95.12
 76.07 23 36 2 3812.57 -23.59 155.24 240.00 68.80 24 39 35 3212.6 -26.25 147.34
 103.93 3 20 1 3105.91 -23.57 103.02 240.00 68.79 4 11 47 2505.9 -26.24 95.12
 110.00 5 45 7 2654.55 -32.45 71.47 242.93 78.60 6 29 22 2054.6 -33.68 62.45
 110.00 2 14 2 3311.92 -15.28 114.40 235.70 59.04 3 9 14 2711.9 -19.27 107.56

DIFFERENTIAL CORRECTIONS

TDE .6525 TRA .5037 TC3-1.2447 BAU .2460
 RDE -.0872 RRA -.2714 RC3 .3274 FAU .18369
 FDE 8.8761 FRA10.0438 FC-11.1222 BSP 3956
 BOE .6583 BRA .5721 BC3 1.2870 FSP -6731

MID-COURSE EXECUTION ACCURACY

SGT 1631.4 SGR 557.1 SG3 2060.8
 RRT -.8732 RRF -.9356 RTF .9541
 SGB 1723.9 R23 .1656 R13 -.9629
 SG1 1704.2 SG2 260.0 THA 162.99

ORBIT DETERMINATION ACCURACY

ST 1024.8 SR 195.9 SS 3492.8
 CRT -.8448 CRS .8998 CST -.9935
 LSA 3642.6 MSA 141.3 SSA 9.5
 EL1 1038.2 EL2 103.5 ALF 170.73

LAUNCH DATE DEC 5 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 481.255

RL 147.41 LAL -.00 LOL 72.93 VL 27.846 GAL 4.56 AZL 86.96 MCA 210.77 SMA 129.44 ECC .15952 INC 3.0436 V1 30.225
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.589 GAP .75 A2P 92.62 TAL 154.68 TAP 5.45 RCA 108.80 APO 150.09 V2 34.810
 RC 85.328 GL 22.78 GP 5.37 ZAL 49.78 ZAP 97.80 ETS 1.87 ZAE 159.58 ETE 168.40 ZAC 98.76 ETC 165.81 CLP -97.84

PLANETOCENTRIC CONIC

C3 14.487 VHL 3.806 DLA 31.60 RAL 16.02 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.814 DPA 4.29 RAP 4.45 ECC 1.2384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.35 23 31 36 3831.20 -23.73 156.71 240.44 68.49 24 35 27 3231.2 -26.43 148.81
 104.65 3 25 35 3093.10 -23.72 102.12 240.43 68.48 4 17 8 2493.1 -26.42 94.22
 75.35 23 31 36 3831.20 -23.73 156.71 240.44 68.49 24 35 27 3231.2 -26.43 148.81
 104.65 3 25 35 3093.10 -23.72 102.12 240.43 68.48 4 17 8 2493.1 -26.42 94.22
 110.00 5 40 9 2675.39 -32.15 73.03 243.33 77.72 6 24 45 2075.4 -33.51 64.06
 110.00 2 20 8 3296.90 -15.80 113.55 236.32 59.29 3 15 5 2696.9 -19.76 106.67

DIFFERENTIAL CORRECTIONS

TDE .8560 TRA .7223 TC3-1.4741 BAU .2915
 RDE -.0522 RRA -.2466 RC3 .3038 FAU .18070
 FDE 8.7499 FRA 9.8663 FC-10.7984 BSP 5474
 BOE .8575 BRA .7632 BC3 1.5051 FSP -6691

MID-COURSE EXECUTION ACCURACY

SGT 2132.9 SGR 499.5 SG3 2017.2
 RRT -.8606 RRF -.9032 RTF .9731
 SGB 2190.6 R23 .1062 R13 -.9758
 SG1 2176.3 SG2 249.3 THA 168.45

ORBIT DETERMINATION ACCURACY

ST 1344.6 SR 152.7 SS 3445.6
 CRT -.7379 CRS .7948 CST -.9960
 LSA 3698.9 MSA 145.9 SSA 9.8
 EL1 1349.4 EL2 102.7 ALF 175.18

LAUNCH DATE DEC 5 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 487.527

RL 147.41 LAL -.00 LOL 72.93 VL 27.846 GAL 4.62 AZL 86.92 MCA 213.93 SMA 129.44 ECC .16007 INC 3.0833 V1 30.225
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.583 GAP 1.15 A2P 92.56 TAL 154.41 TAP 8.35 RCA 108.72 APO 150.16 V2 34.804
 RC 87.691 GL 22.91 GP 4.84 ZAL 49.56 ZAP 103.27 ETS 2.15 ZAE 155.79 ETE 171.19 ZAC 96.67 ETC 166.04 CLP -103.32

PLANETOCENTRIC CONIC

C3 14.711 VHL 3.835 DLA 31.83 RAL 16.25 RAD 6567.6 VEL 11.666 PTH 2.05 VHP 2.858 DPA 2.86 RAP 2.57 ECC 1.2421
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.82 23 28 55 3845.96 -23.80 157.86 240.98 68.22 24 33 1 3246.0 -26.55 149.97
 105.18 3 30 10 3085.13 -23.79 101.54 240.98 68.21 4 21 35 2485.1 -26.54 93.66
 74.82 23 28 55 3845.96 -23.80 157.86 240.98 68.22 24 33 1 3246.0 -26.55 149.97
 105.18 3 30 10 3085.13 -23.79 101.54 240.98 68.21 4 21 35 2485.1 -26.54 93.66
 110.00 5 36 37 2693.24 -31.89 74.35 243.84 76.98 6 21 30 2093.2 -33.35 65.43
 110.00 2 25 34 3285.85 -16.19 112.93 237.01 59.47 3 20 20 2685.9 -20.12 106.01

DIFFERENTIAL CORRECTIONS

TDE 1.0541 TRA .9368 TC3-1.6906 BAU .3371
 RDE -.0197 RRA -.2254 RC3 .2828 FAU .17470
 FDE 8.4845 FRA 9.5752 FC-10.2811 BSP 7051
 BOE 1.0542 BRA .9636 BC3 1.7141 FSP -6539

MID-COURSE EXECUTION ACCURACY

SGT 2621.9 SGR 452.7 SG3 1944.1
 RRT -.8259 RRF -.8594 RTF .9817
 SGB 2660.7 R23 .0728 R13 -.9829
 SG1 2648.7 SG2 252.6 THA 171.81

ORBIT DETERMINATION ACCURACY

ST 1650.8 SR 122.6 SS 3369.3
 CRT -.5200 CRS .5823 CST -.9972
 LSA 3750.9 MSA 150.0 SSA 10.1
 EL1 1652.0 EL2 104.7 ALF 177.78

LAUNCH DATE DEC 5 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 27.844 GAL 4.69 AZL 86.88 MCA 217.10 SMA 129.43 ECC .16084 INC 3.1169 V1 30.225
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.577 GAP 1.55 AZP 92.49 TAL 154.10 TAP 11.20 RCA 108.61 APO 150.24 V2 34.799
 RC 90.065 GL 22.95 GP 4.38 ZAL 49.28 ZAP 108.51 ETS 2.35 ZAE 152.14 ETE 173.03 ZAC 94.78 ETC 166.18 CLP-108.57

PLANETOCENTRIC CONIC

C3 14.972 VHL 3.869 CLA 32.00 RAL 16.58 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 2.924 DPA 1.58 RAP .87 ECC 1.2464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.43 23 27 32 3858.22 -23.83 158.80 241.63 67.98 24 31 51 3258.2 -26.60 150.92
 105.57 3 34 6 3080.73 -23.82 101.22 241.62 67.97 4 25 27 2480.7 -26.59 93.34
 74.43 23 27 32 3858.22 -23.83 158.80 241.63 67.98 24 31 51 3258.2 -26.60 150.92
 105.57 3 34 6 3080.73 -23.82 101.22 241.62 67.97 4 25 27 2480.7 -26.59 93.34
 110.00 5 34 21 2708.55 -31.65 75.48 244.47 76.35 6 19 29 2108.6 -33.20 66.60
 110.00 2 30 24 3278.39 -16.44 112.50 237.76 59.60 3 25 3 2678.4 -20.36 105.56

DIFFERENTIAL CORRECTIONS

TDE 1.2430 TRA 1.1449 TC3-1.8886 BAU .3817
 RDE .0104 RRA -.2073 RC3 .2645 FAU .16647
 FDE 8.1096 FRA 9.1945 FC3-9.6263 BSP 8610
 BDE 1.2430 BRA 1.1635 BC3 1.9070 FSP -6303

MID-COURSE EXECUTION ACCURACY

SGT 3085.5 SGR 416.0 SG3 1847.9
 RRT -.7745 RRF -.8034 RTF .9863
 SGB 3113.4 R23 .0539 R13 -.9868
 SG1 3102.4 SG2 261.8 THA 174.00

ORBIT DETERMINATION ACCURACY

ST 1936.3 SR 109.8 SS 3269.0
 CRT -.1738 CRS .2385 CST -.9978
 LSA 3797.9 MSA 153.9 SSA 10.3
 EL1 1936.4 EL2 108.2 ALF 179.43

LAUNCH DATE DEC 5 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 27.840 GAL 4.78 AZL 86.85 MCA 220.26 SMA 129.40 ECC .16182 INC 3.1460 V1 30.225
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.570 GAP 1.94 AZP 92.40 TAL 153.76 TAP 14.02 RCA 108.46 APO 150.34 V2 34.795
 RC 92.449 GL 22.93 GP 3.97 ZAL 48.94 ZAP 113.47 ETS 2.51 ZAE 148.70 ETE 174.29 ZAC 93.15 ETC 166.27 CLP-113.53

PLANETOCENTRIC CONIC

C3 15.275 VHL 3.908 CLA 32.13 RAL 16.98 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 3.010 DPA .46 RAP 359.40 ECC 1.2514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.15 23 27 14 3868.65 -23.80 159.59 242.38 67.75 24 31 43 3268.7 -26.61 151.72
 105.85 3 37 37 3079.27 -23.79 101.10 242.37 67.74 4 28 56 2479.3 -26.60 93.23
 74.15 23 27 14 3868.65 -23.80 159.59 242.38 67.75 24 31 43 3268.7 -26.61 151.72
 105.85 3 37 37 3079.27 -23.79 101.10 242.37 67.74 4 28 56 2479.3 -26.60 93.23
 110.00 5 33 15 2721.67 -31.43 76.44 245.21 75.82 6 18 37 2121.7 -33.06 67.59
 110.00 2 34 42 3274.25 -16.59 112.27 238.59 59.67 3 29 17 2674.3 -20.49 105.32

DIFFERENTIAL CORRECTIONS

TDE 1.4207 TRA 1.3462 TC3-2.0629 BAU .4243
 RDE .0382 RRA -.1920 RC3 .2484 FAU .15663
 FDE 7.6635 FRA 8.7599 FC3-8.8775 BSP 10095
 BDE 1.4212 BRA 1.3598 BC3 2.0778 FSP -5999

MID-COURSE EXECUTION ACCURACY

SGT 3517.0 SGR 389.1 SG3 1737.3
 RRT -.7097 RRF -.7362 RTF .9884
 SGB 3538.4 R23 .0428 R13 -.9891
 SG1 3527.9 SG2 273.2 THA 175.48

ORBIT DETERMINATION ACCURACY

ST 2197.6 SR 114.5 SS 3153.0
 CRT .1855 CRS -.1257 CST -.9981
 LSA 3841.7 MSA 157.7 SSA 10.5
 EL1 2197.7 EL2 112.6 ALF .56

LAUNCH DATE DEC 5 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 27.834 GAL 4.89 AZL 86.83 MCA 223.43 SMA 129.36 ECC .16303 INC 3.1714 V1 30.225
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.563 GAP 2.33 AZP 92.30 TAL 153.37 TAP 16.79 RCA 108.27 APO 150.45 V2 34.791
 RC 94.840 GL 22.84 GP 3.61 ZAL 48.53 ZAP 118.13 ETS 2.62 ZAE 145.49 ETE 175.17 ZAC 91.79 ETC 166.31 CLP-118.19

PLANETOCENTRIC CONIC

C3 15.623 VHL 3.953 CLA 32.22 RAL 17.45 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 3.115 DPA -.48 RAP 358.18 ECC 1.2571
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.95 23 27 50 3877.79 -23.73 160.25 243.23 67.54 24 32 27 3277.8 -26.56 152.40
 106.05 3 40 49 3080.29 -23.72 101.14 243.23 67.53 4 32 9 2480.3 -26.56 93.30
 73.95 23 27 50 3877.79 -23.73 160.25 243.23 67.54 24 32 27 3277.8 -26.56 152.40
 106.05 3 40 49 3080.29 -23.72 101.14 243.23 67.53 4 32 9 2480.3 -26.56 93.30
 110.00 5 33 14 2732.84 -31.24 77.26 246.07 75.37 6 18 47 2132.8 -32.93 68.44
 110.00 2 38 31 3273.24 -16.62 112.21 239.48 59.69 3 33 4 2673.2 -20.52 105.25

DIFFERENTIAL CORRECTIONS

TDE 1.5879 TRA 1.5420 TC3-2.2075 BAU .4636
 RDE .0638 RRA -.1794 RC3 .2339 FAU .14516
 FDE 7.1896 FRA 8.3059 FC3-8.0444 BSP 11448
 BDE 1.5892 BRA 1.5524 BC3 2.2198 FSP -5626

MID-COURSE EXECUTION ACCURACY

SGT 3914.6 SGR 370.5 SG3 1620.1
 RRT -.6357 RRF -.6603 RTF .9903
 SGB 3932.1 R23 .0355 R13 -.9904
 SG1 3921.7 SG2 285.5 THA 176.54

ORBIT DETERMINATION ACCURACY

ST 2435.0 SR 130.8 SS 3031.6
 CRT .4383 CRS -.3865 CST -.9984
 LSA 3887.3 MSA 161.2 SSA 10.8
 EL1 2435.7 EL2 117.5 ALF 1.35

LAUNCH DATE DEC 5 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -.00 LOL 72.93 VL 27.828 GAL 5.01 AZL 86.81 MCA 226.59 SMA 129.31 ECC .16446 INC 3.1940 V1 30.225
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.555 GAP 2.73 AZP 92.20 TAL 152.95 TAP 19.53 RCA 108.05 APO 150.58 V2 34.788
 RC 97.236 GL 22.70 GP 3.28 ZAL 48.07 ZAP 122.48 ETS 2.72 ZAE 142.55 ETE 175.79 ZAC 90.73 ETC 166.33 CLP-122.54

PLANETOCENTRIC CONIC

C3 16.019 VHL 4.002 CLA 32.27 RAL 18.00 RAD 6567.6 VEL 11.722 PTH 2.07 VHP 3.236 DPA -1.26 RAP 357.23 ECC 1.2636
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.84 23 29 15 3885.79 -23.62 160.81 244.18 67.35 24 34 1 3285.8 -26.48 152.98
 106.16 3 43 44 3083.66 -23.61 101.35 244.18 67.33 4 35 7 2483.7 -26.47 93.52
 73.84 23 29 15 3885.79 -23.62 160.81 244.18 67.35 24 34 1 3285.8 -26.48 152.98
 106.16 3 43 44 3083.66 -23.61 101.35 244.18 67.33 4 35 7 2483.7 -26.47 93.52
 110.00 5 34 14 2742.25 -31.08 77.94 247.04 74.99 6 19 56 2142.3 -32.82 69.15
 110.00 2 41 51 3275.20 -16.55 112.32 240.43 59.66 3 36 26 2675.2 -20.46 105.37

DIFFERENTIAL CORRECTIONS

TDE 1.7409 TRA 1.7300 TC3-2.3283 BAU .5009
 RDE .0878 RRA -.1688 RC3 .2215 FAU .13391
 FDE 6.6902 FRA 7.8339 FC3-7.2371 BSP 12726
 BDE 1.7432 BRA 1.7382 BC3 2.3388 FSP -5259

MID-COURSE EXECUTION ACCURACY

SGT 4273.6 SGR 359.0 SG3 1499.5
 RRT -.5566 RRF -.5799 RTF .9912
 SGB 4288.6 R23 .0306 R13 -.9913
 SG1 4278.2 SG2 297.9 THA 177.31

ORBIT DETERMINATION ACCURACY

ST 2643.2 SR 152.3 SS 2900.4
 CRT .5906 CRS -.5458 CST -.9985
 LSA 3923.6 MSA 164.8 SSA 11.0
 EL1 2644.7 EL2 122.8 ALF 1.95

LAUNCH DATE DEC 5 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 518.556

RL 147.41 LAL -1.00 LOL 72.93 VL 27.820 GAL 5.14 AZL 86.79 HCA 229.75 SMA 129.26 ECC .16611 INC 3.2145 V1 30.225
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.547 GAP 3.12 AZP 92.08 TAL 152.48 TAP 22.23 RCA 107.79 APO 150.73 V2 34.786
 RC 99.636 GL 22.51 GP 3.00 ZAL 47.55 ZAP 126.52 ETS 2.79 ZAE 139.88 ETE 176.25 ZAC 89.95 ETC 166.33 CLP-126.58

PLANETOCENTRIC CONIC

C3 16.469 VHL 4.058 CLA 32.29 RAL 18.60 RAD 6567.7 VEL 11.741 PTH 2.07 VHP 3.373 DPA -1.88 RAP 356.55 ECC 1.2710
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.79 23 31 21 3893.11 -23.47 161.30 245.23 67.16 24 36 14 3293.1 -26.36 153.49
 106.21 3 46 28 3088.97 -23.46 101.69 245.22 67.14 4 37 57 2489.0 -26.34 93.88
 73.79 23 31 21 3893.11 -23.47 161.30 245.23 67.16 24 36 14 3293.1 -26.36 153.49
 106.21 3 46 28 3088.97 -23.46 101.69 245.22 67.14 4 37 57 2489.0 -26.34 93.88
 110.00 5 36 11 2750.10 -30.94 78.51 248.13 74.68 6 22 1 2150.1 -32.73 69.75
 110.00 2 44 46 3279.97 -16.39 112.59 241.46 59.57 3 39 26 2680.0 -20.31 105.66

DIFFERENTIAL CORRECTIONS

TDE 1.8817 TRA 1.9126 TC3-2.4222 BAU .5353
 RDE .1104 RRA -.1599 RC3 .2103 FAU .12263
 FDE 6.1978 FRA 7.3711 FC3-6.4464 BSP 13903
 BDE 1.8849 BRA 1.9193 BC3 2.4313 FSP -4890

MID-COURSE EXECUTION ACCURACY

SGT 4596.4 SGR 353.2 SG3 1381.1
 RRT -.4771 RRF -.4990 RTF .9917
 SGB 4609.9 R23 .0269 R13 -.9917
 SG1 4599.5 SG2 310.2 THA 177.89

ORBIT DETERMINATION ACCURACY

ST 2824.8 SR 175.3 SS 2768.3
 CRT .6805 CRS -.6408 CST -.9986
 LSA 3955.4 MSA 168.2 SSA 11.3
 EL1 2827.3 EL2 128.3 ALF 2.42

LAUNCH DATE DEC 5 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 524.694

RL 147.41 LAL -1.00 LOL 72.93 VL 27.810 GAL 5.29 AZL 86.77 HCA 232.91 SMA 129.19 ECC .16799 INC 3.2330 V1 30.225
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.538 GAP 3.51 AZP 91.95 TAL 151.98 TAP 24.89 RCA 107.49 APO 150.89 V2 34.784
 RC 102.038 GL 22.27 GP 2.74 ZAL 46.99 ZAP 130.27 ETS 2.86 ZAE 137.46 ETE 176.59 ZAC 89.45 ETC 166.32 CLP-130.32

PLANETOCENTRIC CONIC

C3 16.977 VHL 4.120 CLA 32.28 RAL 19.27 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 3.523 DPA -2.34 RAP 356.12 ECC 1.2794
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.80 23 34 7 3899.77 -23.28 161.72 246.37 66.97 24 39 7 3299.8 -26.19 153.93
 106.20 3 49 2 3096.24 -23.27 102.15 246.37 66.96 4 40 39 2496.2 -26.18 94.37
 73.80 23 34 7 3899.77 -23.28 161.72 246.37 66.97 24 39 7 3299.8 -26.19 153.93
 106.20 3 49 2 3096.24 -23.27 102.15 246.37 66.96 4 40 39 2496.2 -26.18 94.37
 110.00 5 39 0 2756.58 -30.82 78.98 249.33 74.43 6 24 56 2156.6 -32.65 70.23
 110.00 2 47 16 3287.43 -16.13 113.02 242.54 59.45 3 42 4 2687.4 -20.07 106.10

DIFFERENTIAL CORRECTIONS

TDE 2.0116 TRA 2.0920 TC3-2.4901 BAU .5670
 RDE .1318 RRA -.1524 RC3 .2000 FAU .11168
 FDE 5.7259 FRA 6.9309 FC3-5.6951 BSP 14968
 BDE 2.0159 BRA 2.0975 BC3 2.4981 FSP -4524

MID-COURSE EXECUTION ACCURACY

SGT 4886.3 SGR 351.6 SG3 1268.0
 RRT -.4005 RRF -.4209 RTF .9919
 SGB 4899.0 R23 .0239 R13 -.9919
 SG1 4888.4 SG2 322.0 THA 178.34

ORBIT DETERMINATION ACCURACY

ST 2982.3 SR 198.2 SS 2638.4
 CRT .7357 CRS -.6996 CST -.9986
 LSA 3983.1 MSA 171.6 SSA 11.6
 EL1 2985.9 EL2 134.1 ALF 2.80

LAUNCH DATE DEC 5 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 530.808

RL 147.41 LAL -1.00 LOL 72.93 VL 27.800 GAL 5.46 AZL 86.75 HCA 236.07 SMA 129.12 ECC .17010 INC 3.2501 V1 30.225
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.530 GAP 3.91 AZP 91.82 TAL 151.45 TAP 27.52 RCA 107.15 APO 151.08 V2 34.783
 RC 104.441 GL 22.00 GP 2.52 ZAL 46.38 ZAP 133.73 ETS 2.93 ZAE 135.28 ETE 176.84 ZAC 89.21 ETC 166.32 CLP-133.79

PLANETOCENTRIC CONIC

C3 17.547 VHL 4.189 CLA 32.25 RAL 20.00 RAD 6567.7 VEL 11.787 PTH 2.08 VHP 3.686 DPA -2.67 RAP 355.94 ECC 1.2888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.88 23 37 28 3905.96 -23.05 162.09 247.60 66.79 24 42 34 3306.0 -25.99 154.33
 106.12 3 51 28 3105.33 -23.04 102.74 247.60 66.78 4 43 13 2505.3 -25.98 94.98
 73.88 23 37 28 3905.96 -23.05 162.09 247.60 66.79 24 42 34 3306.0 -25.99 154.33
 106.12 3 51 28 3105.33 -23.04 102.74 247.60 66.78 4 43 13 2505.3 -25.98 94.98
 110.00 5 42 37 2761.87 -30.73 79.36 250.65 74.22 6 28 39 2161.9 -32.58 70.63
 110.00 2 49 25 3297.41 -15.79 113.58 243.69 59.28 3 44 23 2697.4 -19.74 106.70

DIFFERENTIAL CORRECTIONS

TDE 2.1346 TRA 2.2725 TC3-2.5270 BAU .5945
 RDE .1523 RRA -.1460 RC3 .1901 FAU .10077
 FDE 5.2912 FRA 6.5278 FC3-4.9718 BSP 15865
 BDE 2.1400 BRA 2.2772 BC3 2.5341 FSP -4151

MID-COURSE EXECUTION ACCURACY

SGT 5149.3 SGR 352.9 SG3 1163.0
 RRT -.3285 RRF -.3471 RTF .9919
 SGB 5161.3 R23 .0211 R13 -.9919
 SG1 5150.6 SG2 333.2 THA 178.70

ORBIT DETERMINATION ACCURACY

ST 3121.6 SR 220.1 SS 2516.5
 CRT .7712 CRS -.7376 CST -.9987
 LSA 4011.8 MSA 175.1 SSA 11.8
 EL1 3126.2 EL2 139.9 ALF 3.12

LAUNCH DATE DEC 5 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 536.897

RL 147.41 LAL -1.00 LOL 72.93 VL 27.788 GAL 5.64 AZL 86.73 HCA 239.23 SMA 129.04 ECC .17245 INC 3.2660 V1 30.225
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.521 GAP 4.31 AZP 91.67 TAL 150.88 TAP 30.12 RCA 106.78 APO 151.29 V2 34.783
 RC 106.844 GL 21.68 GP 2.32 ZAL 45.73 ZAP 136.94 ETS 3.00 ZAE 133.33 ETE 177.04 ZAC 89.21 ETC 166.31 CLP-137.00

PLANETOCENTRIC CONIC

C3 18.186 VHL 4.265 CLA 32.19 RAL 20.77 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 3.861 DPA -2.87 RAP 355.97 ECC 1.2993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.00 23 41 24 3911.67 -22.79 162.40 248.92 66.62 24 46 35 3311.7 -25.75 154.67
 106.00 3 53 42 3116.27 -22.78 103.46 248.92 66.61 4 45 39 2516.3 -25.74 95.72
 74.00 23 41 24 3911.67 -22.79 162.40 248.92 66.62 24 46 35 3311.7 -25.75 154.67
 106.00 3 53 42 3116.27 -22.78 103.46 248.92 66.61 4 45 39 2516.3 -25.74 95.72
 110.00 5 46 58 2766.15 -30.65 79.67 252.06 74.06 6 33 4 2166.2 -32.52 70.95
 110.00 2 51 14 3309.79 -15.35 114.28 244.89 59.08 3 46 24 2709.8 -19.34 107.43

DIFFERENTIAL CORRECTIONS

TDE 2.2458 TRA 2.4500 TC3-2.5472 BAU .6209
 RDE .1723 RRA -.1403 RC3 .1807 FAU .09105
 FDE 4.8781 FRA 6.1458 FC3-4.3344 BSP 16742
 BDE 2.2524 BRA 2.4540 BC3 2.5536 FSP -3824

MID-COURSE EXECUTION ACCURACY

SGT 5380.8 SGR 356.3 SG3 1064.6
 RRT -.2621 RRF -.2791 RTF .9918
 SGB 5392.6 R23 .0187 R13 -.9918
 SG1 5381.7 SG2 343.8 THA 179.00

ORBIT DETERMINATION ACCURACY

ST 3235.7 SR 241.0 SS 2394.9
 CRT .7954 CRS -.7637 CST -.9987
 LSA 4028.9 MSA 178.5 SSA 12.0
 EL1 3241.4 EL2 145.8 ALF 3.40

LAUNCH DATE DEC 5 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -1.00 LOL 72.93 VL 27.775 GAL 5.84 AZL 86.72 MCA 242.39 SMA 128.95 ECC .17504 INC 3.2808 V1 30.225
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.512 GAP 4.71 AZP 91.52 TAL 150.28 TAP 32.68 RCA 106.38 APO 151.52 V2 34.784
 RC 109.246 GL 25.33 GP 2.15 ZAL 45.03 ZAP 139.92 ETS 3.08 ZAE 131.59 ETE 177.19 ZAC 89.43 ETC 166.31 CLP-139.97

PLANETOCENTRIC CONIC

C3 18.900 VHL 4.347 DLA 32.11 RAL 21.59 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 4.047 DPA -2.95 RAP 356.21 ECC 1.3111
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.18 23 45 52 3916.95 -22.49 162.66 250.33 66.45 24 51 9 3317.0 -25.48 154.96
 105.82 3 55 46 3129.07 -22.48 104.29 250.32 66.44 4 47 55 2529.1 -25.47 96.58
 74.18 23 45 52 3916.95 -22.49 162.66 250.33 66.45 24 51 9 3317.0 -25.48 154.96
 105.82 3 55 46 3129.07 -22.48 104.29 250.32 66.44 4 47 55 2529.1 -25.47 96.58
 110.00 5 51 59 2769.61 -30.58 79.92 253.58 73.92 6 38 9 2169.6 -32.48 71.21
 110.00 2 52 45 3324.41 -14.84 115.10 246.16 58.85 3 48 10 2724.4 -18.86 108.29

DIFFERENTIAL CORRECTIONS

TOE 2.3494 TRA 2.6293 TC3-2.5459 BAU .6447
 RDE .1920 RRA -.1350 RC3 .1714 FAU .08200
 FDE 4.4988 FRA 5.7973 FC3-3.7559 BSP 17529
 BOE 2.3572 BRA 2.6327 BC3 2.5516 FSP -3517

MID-COURSE EXECUTION ACCURACY

SGT 5587.8 SGR 361.0 SG3 974.4
 RRT -.2012 RRF -.2165 RTF .9916
 SGB 5599.5 R23 .0165 R13 -.9916
 SG1 5588.3 SG2 353.6 THA 179.25

ORBIT DETERMINATION ACCURACY

ST 3331.3 SR 260.8 SS 2279.3
 CRT .8124 CRS -.7819 CST -.9987
 LSA 4040.7 MSA 182.1 SSA 12.2
 EL1 3338.0 EL2 151.8 ALF 3.65

LAUNCH DATE DEC 5 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -1.00 LOL 72.93 VL 27.762 GAL 6.06 AZL 86.71 MCA 245.55 SMA 128.85 ECC .17790 INC 3.2948 V1 30.225
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.503 GAP 5.12 AZP 91.36 TAL 149.66 TAP 35.21 RCA 105.93 APO 151.77 V2 34.785
 RC 111.645 GL 20.95 GP 1.99 ZAL 44.30 ZAP 142.69 ETS 3.17 ZAE 130.03 ETE 177.32 ZAC 89.86 ETC 166.32 CLP-142.73

PLANETOCENTRIC CONIC

C3 19.698 VHL 4.438 DLA 32.01 RAL 22.45 RAD 6567.8 VEL 11.878 PTH 2.11 VHP 4.244 DPA -2.94 RAP 356.64 ECC 1.3242
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.41 23 50 51 3921.88 -22.16 162.88 251.82 66.29 24 56 13 3321.9 -25.17 155.21
 105.59 3 57 39 3143.67 -22.14 105.24 251.81 66.27 4 50 3 2543.7 -25.16 97.57
 74.41 23 50 51 3921.88 -22.16 162.88 251.82 66.29 24 56 13 3321.9 -25.17 155.21
 105.59 3 57 39 3143.67 -22.14 105.24 251.81 66.27 4 50 3 2543.7 -25.16 97.57
 110.00 5 57 36 2772.42 -30.53 80.12 255.20 73.81 6 43 48 2172.4 -32.44 71.42
 110.00 2 54 1 3341.13 -14.25 116.04 247.48 58.60 3 49 42 2741.1 -18.30 109.27

DIFFERENTIAL CORRECTIONS

TOE 2.4466 TRA 2.8120 TC3-2.5249 BAU .6663
 RDE .2114 RRA -.1300 RC3 .1620 FAU .07365
 FDE 4.1530 FRA 5.4809 FC3-3.2372 BSP 18235
 BOE 2.4557 BRA 2.8150 BC3 2.5301 FSP -3233

MID-COURSE EXECUTION ACCURACY

SGT 5773.0 SGR 366.5 SG3 892.2
 RRT -.1453 RRF -.1588 RTF .9914
 SGB 5784.6 R23 .0144 R13 -.9914
 SG1 5773.3 SG2 362.6 THA 179.47

ORBIT DETERMINATION ACCURACY

ST 3410.3 SR 279.4 SS 2170.0
 CRT .8246 CRS -.7951 CST -.9987
 LSA 4047.5 MSA 185.7 SSA 12.4
 EL1 3418.1 EL2 157.7 ALF 3.87

LAUNCH DATE DEC 5 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -1.00 LOL 72.93 VL 27.747 GAL 6.30 AZL 86.69 MCA 248.72 SMA 128.75 ECC .18102 INC 3.3082 V1 30.225
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.495 GAP 5.53 AZP 91.20 TAL 149.00 TAP 37.71 RCA 105.45 APO 152.06 V2 34.787
 RC 114.042 GL 20.53 GP 1.85 ZAL 43.54 ZAP 145.26 ETS 3.26 ZAE 128.64 ETE 177.42 ZAC 90.46 ETC 166.34 CLP-145.31

PLANETOCENTRIC CONIC

C3 20.586 VHL 4.537 DLA 31.89 RAL 23.35 RAD 6567.8 VEL 11.915 PTH 2.12 VHP 4.452 DPA -2.82 RAP 357.23 ECC 1.3388
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.69 0 0 13 3926.58 -21.79 163.06 253.38 66.12 1 5 40 3326.6 -24.83 155.42
 105.31 3 59 22 3160.01 -21.78 106.31 253.38 66.11 4 52 2 2560.0 -24.82 98.67
 74.69 0 0 13 3926.58 -21.79 163.06 253.38 66.12 1 5 40 3326.6 -24.83 155.42
 105.31 3 59 22 3160.01 -21.78 106.31 253.38 66.11 4 52 2 2560.0 -24.82 98.67
 110.00 6 3 44 2774.77 -30.48 80.29 256.92 73.72 6 49 58 2174.8 -32.41 71.60
 110.00 2 55 2 3359.82 -13.58 117.08 248.85 58.33 3 51 2 2759.8 -17.68 110.36

DIFFERENTIAL CORRECTIONS

TOE 2.5383 TRA 2.9989 TC3-2.4872 BAU .6858
 RDE .2308 RRA -.1249 RC3 .1526 FAU .06603
 FDE 3.8390 FRA 5.1937 FC3-2.7766 BSP 18880
 BOE 2.5488 BRA 3.0015 BC3 2.4919 FSP -2973

MID-COURSE EXECUTION ACCURACY

SGT 5938.1 SGR 372.3 SG3 817.4
 RRT -.0935 RRF -.1053 RTF .9910
 SGB 5949.7 R23 .0123 R13 -.9910
 SG1 5938.2 SG2 370.7 THA 179.66

ORBIT DETERMINATION ACCURACY

ST 3474.1 SR 296.8 SS 2066.8
 CRT .8335 CRS -.8048 CST -.9987
 LSA 4048.8 MSA 189.2 SSA 12.5
 EL1 3482.9 EL2 163.5 ALF 4.08

LAUNCH DATE DEC 5 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

RL 147.41 LAL -1.00 LOL 72.93 VL 27.732 GAL 6.56 AZL 86.68 MCA 251.88 SMA 128.65 ECC .18443 INC 3.3209 V1 30.225
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.486 GAP 5.96 AZP 91.03 TAL 148.31 TAP 40.19 RCA 104.92 APO 152.37 V2 34.790
 RC 116.435 GL 20.10 GP 1.73 ZAL 42.75 ZAP 147.67 ETS 3.37 ZAE 127.39 ETE 177.51 ZAC 91.22 ETC 166.36 CLP-147.71

PLANETOCENTRIC CONIC

C3 21.577 VHL 4.645 DLA 31.74 RAL 24.28 RAD 6567.9 VEL 11.956 PTH 2.13 VHP 4.670 DPA -2.63 RAP 357.98 ECC 1.3551
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.02 0 6 11 3930.84 -21.38 163.19 255.02 65.96 1 11 42 3330.8 -24.45 155.59
 104.98 4 0 50 3178.34 -21.37 107.51 255.02 65.95 4 53 48 2578.3 -24.44 99.90
 75.02 0 6 11 3930.84 -21.38 163.19 255.02 65.96 1 11 42 3330.8 -24.45 155.59
 104.98 4 0 50 3178.34 -21.37 107.51 255.02 65.95 4 53 48 2578.3 -24.44 99.90
 110.00 6 10 19 2776.81 -30.44 80.43 258.72 73.65 6 56 36 2176.8 -32.38 71.75
 110.00 2 55 52 3380.37 -12.85 118.21 250.28 58.05 3 52 12 2780.4 -16.98 111.54

DIFFERENTIAL CORRECTIONS

TOE 2.6289 TRA 3.1957 TC3-2.4275 BAU .7015
 RDE .2502 RRA -.1197 RC3 .1429 FAU .05873
 FDE 3.5602 FRA 4.9414 FC3-2.3562 BSP 19383
 BOE 2.6408 BRA 3.1980 BC3 2.4317 FSP -2722

MID-COURSE EXECUTION ACCURACY

SGT 6089.7 SGR 378.2 SG3 750.4
 RRT -.0448 RRF -.0546 RTF .9906
 SGB 6101.5 R23 .0101 R13 -.9906
 SG1 6089.8 SG2 377.8 THA 179.84

ORBIT DETERMINATION ACCURACY

ST 3528.8 SR 313.1 SS 1972.9
 CRT .8402 CRS -.8121 CST -.9987
 LSA 4050.4 MSA 192.8 SSA 12.7
 EL1 3538.7 EL2 169.3 ALF 4.27

LAUNCH DATE DEC 5 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 566.936

RL 147.41 LAL -0.00 LOL 72.93 VL 27.716 GAL 6.83 AZL 86.67 MCA 255.04 SMA 128.54 ECC .18815 INC 3.3333 V1 30.225
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.477 GAP 6.39 AZP 90.86 TAL 147.61 TAP 42.65 RCA 104.35 APO 152.72 V2 34.794
 RC 118.823 GL 19.63 GP 1.62 ZAL 41.94 ZAP 149.93 ETS 3.48 ZAE 126.28 ETE 177.59 ZAC 92.13 ETC 166.38 CLP-149.97

PLANETOCENTRIC CONIC

C3 22.682 VHL 4.763 DLA 31.58 RAL 25.23 RAD 6567.9 VEL 12.003 PTH 2.14 VHP 4.899 DPA -2.36 RAP 358.85 ECC 1.3733
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.40 0 12 38 3934.66 -20.95 163.27 256.74 65.81 1 18 12 3334.7 -24.03 155.70
 104.60 4 2 0 3198.69 -20.93 108.84 256.73 65.80 4 55 19 2598.7 -24.02 101.27
 75.40 0 12 38 3934.66 -20.95 163.27 256.74 65.81 1 18 12 3334.7 -24.03 155.70
 104.60 4 2 0 3198.69 -20.93 108.84 256.73 65.80 4 55 19 2598.7 -24.02 101.27
 110.00 6 17 18 2778.69 -30.41 80.57 260.62 73.57 7 3 36 2178.7 -32.36 71.89
 110.00 2 56 31 3402.65 -12.04 119.44 251.76 57.76 3 53 14 2802.7 -16.21 112.81

DIFFERENTIAL CORRECTIONS

TOE 2.7122 TRA 3.3963 TC3-2.3607 BAU .7170
 ROE .2699 RRA -.1141 RC3 .1331 FAU .05242
 FDE 3.3020 FRA 4.7079 FC3-2.0008 BSP 19920
 BOE 2.7255 BRA 3.3982 BC3 2.3644 FSP -2508

MID-COURSE EXECUTION ACCURACY

SGT 6221.4 SGR 384.0 SG3 689.1
 RRT .0006 RRF -.0076 RTF .9902
 SGB 6233.3 R23 -.0082 R13 .9902
 SG1 6221.4 SG2 384.0 THA .00

ORBIT DETERMINATION ACCURACY

ST 3566.7 SR 328.2 SS 1881.5
 CRT .8452 CRS -.8176 CST -.9987
 LSA 4041.1 MSA 196.3 SSA 12.8
 EL1 3577.5 EL2 174.9 ALF 4.46

LAUNCH DATE DEC 5 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 572.850

RL 147.41 LAL -0.00 LOL 72.93 VL 27.699 GAL 7.13 AZL 86.65 MCA 258.20 SMA 128.42 ECC .19219 INC 3.3452 V1 30.225
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.469 GAP 6.83 AZP 90.68 TAL 146.88 TAP 45.08 RCA 103.74 APO 153.10 V2 34.798
 RC 121.206 GL 19.15 GP 1.52 ZAL 41.10 ZAP 152.05 ETS 3.62 ZAE 125.27 ETE 177.66 ZAC 93.17 ETC 166.40 CLP-152.09

PLANETOCENTRIC CONIC

C3 23.913 VHL 4.890 DLA 31.40 RAL 26.21 RAD 6568.0 VEL 12.054 PTH 2.15 VHP 5.139 DPA -2.02 RAP 359.84 ECC 1.3935
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.84 0 19 33 3938.07 -20.47 163.30 258.52 65.66 1 25 11 3338.1 -23.58 155.77
 104.16 4 2 54 3221.07 -20.46 110.31 258.51 65.65 4 56 35 2621.1 -23.57 102.77
 75.84 0 19 33 3938.07 -20.47 163.30 258.52 65.66 1 25 11 3338.1 -23.58 155.77
 104.16 4 2 54 3221.07 -20.46 110.31 258.51 65.65 4 56 35 2621.1 -23.57 102.77
 110.00 6 24 36 2780.56 -30.37 80.70 262.59 73.50 7 10 57 2180.6 -32.33 72.03
 110.00 2 57 1 3426.58 -11.17 120.74 253.29 57.48 3 54 8 2826.6 -15.38 114.17

DIFFERENTIAL CORRECTIONS

TOE 2.7922 TRA 3.6055 TC3-2.2815 BAU .7305
 ROE .2897 RRA -.1079 RC3 .1232 FAU .04663
 FDE 3.0684 FRA 4.4984 FC3-1.6882 BSP 20405
 BOE 2.8072 BRA 3.6071 BC3 2.2849 FSP -2312

MID-COURSE EXECUTION ACCURACY

SGT 6338.5 SGR 389.4 SG3 633.6
 RRT .0438 RRF .0372 RTF .9897
 SGB 6350.4 R23 -.0063 R13 .9897
 SG1 6338.5 SG2 389.1 THA .15

ORBIT DETERMINATION ACCURACY

ST 3593.4 SR 342.3 SS 1795.8
 CRT .8488 CRS -.8217 CST -.9987
 LSA 4026.7 MSA 199.8 SSA 12.8
 EL1 3605.1 EL2 180.4 ALF 4.63

LAUNCH DATE DEC 5 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 578.727

RL 147.41 LAL -0.00 LOL 72.93 VL 27.682 GAL 7.46 AZL 86.64 MCA 261.37 SMA 128.30 ECC .19657 INC 3.3569 V1 30.225
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.461 GAP 7.29 AZP 90.50 TAL 146.13 TAP 47.50 RCA 103.08 APO 153.53 V2 34.803
 RC 123.581 GL 18.64 GP 1.44 ZAL 40.24 ZAP 154.05 ETS 3.76 ZAE 124.37 ETE 177.73 ZAC 94.32 ETC 166.43 CLP-154.09

PLANETOCENTRIC CONIC

C3 25.287 VHL 5.029 DLA 31.20 RAL 27.21 RAD 6568.0 VEL 12.110 PTH 2.17 VHP 5.391 DPA -1.62 RAP .94 ECC 1.4162
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.33 0 26 59 3940.96 -19.96 163.28 260.36 65.52 1 32 40 3341.0 -23.10 155.78
 103.67 4 3 25 3245.65 -19.95 111.92 260.36 65.51 4 57 31 2645.7 -23.09 104.42
 76.33 0 26 59 3940.96 -19.96 163.28 260.36 65.52 1 32 40 3341.0 -23.10 155.78
 103.67 4 3 25 3245.65 -19.95 111.92 260.36 65.51 4 57 31 2645.7 -23.09 104.42
 110.00 6 32 12 2782.53 -30.33 80.84 264.64 73.43 7 18 35 2182.5 -32.30 72.18
 110.00 2 57 23 3452.07 -10.23 122.12 254.87 57.21 3 54 55 2852.1 -14.48 115.60

DIFFERENTIAL CORRECTIONS

TOE 2.8710 TRA 3.8254 TC3-2.1913 BAU .7418
 ROE .3097 RRA -.1011 RC3 .1133 FAU .04134
 FDE 2.8588 FRA 4.3112 FC3-1.4154 BSP 20836
 BOE 2.8876 BRA 3.8267 BC3 2.1942 FSP -2133

MID-COURSE EXECUTION ACCURACY

SGT 6443.7 SGR 394.5 SG3 583.5
 RRT .0853 RRF .0802 RTF .9893
 SGB 6455.8 R23 -.0045 R13 .9893
 SG1 6443.8 SG2 394.1 THA .30

ORBIT DETERMINATION ACCURACY

ST 3611.4 SR 355.2 SS 1716.3
 CRT .8516 CRS -.8248 CST -.9988
 LSA 4009.0 MSA 203.2 SSA 12.9
 EL1 3624.0 EL2 185.6 ALF 4.80

LAUNCH DATE DEC 5 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 584.565

RL 147.41 LAL -0.00 LOL 72.93 VL 27.665 GAL 7.81 AZL 86.63 MCA 264.53 SMA 128.18 ECC .20133 INC 3.3684 V1 30.225
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.453 GAP 7.76 AZP 90.32 TAL 145.37 TAP 49.90 RCA 102.38 APO 153.99 V2 34.808
 RC 125.948 GL 18.12 GP 1.36 ZAL 39.37 ZAP 155.94 ETS 3.93 ZAE 123.56 ETE 177.79 ZAC 95.56 ETC 166.45 CLP-155.98

PLANETOCENTRIC CONIC

C3 26.822 VHL 5.179 DLA 30.98 RAL 28.22 RAD 6568.1 VEL 12.174 PTH 2.18 VHP 5.655 DPA -1.17 RAP 2.13 ECC 1.4414
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.88 0 34 56 3943.18 -19.42 163.18 262.27 65.38 1 40 39 3343.2 -22.58 155.72
 103.12 4 3 32 3272.59 -19.41 113.68 262.26 65.37 4 58 5 2672.6 -22.57 106.23
 76.88 0 34 56 3943.18 -19.42 163.18 262.27 65.38 1 40 39 3343.2 -22.58 155.72
 103.12 4 3 32 3272.59 -19.41 113.68 262.26 65.37 4 58 5 2672.6 -22.57 106.23
 110.00 6 40 2 2784.73 -30.29 81.00 266.77 73.34 7 26 26 2184.7 -32.27 72.34
 110.00 2 57 37 3479.04 -9.23 123.57 256.49 56.94 3 55 36 2879.0 -13.52 117.10

DIFFERENTIAL CORRECTIONS

TOE 2.9479 TRA 4.0569 TC3-2.0914 BAU .7509
 ROE .3301 RRA -.0935 RC3 .1035 FAU .03649
 FDE 2.6690 FRA 4.1437 FC3-1.1777 BSP 21220
 BOE 2.9663 BRA 4.0580 BC3 2.0940 FSP -1968

MID-COURSE EXECUTION ACCURACY

SGT 6537.1 SGR 399.2 SG3 538.2
 RRT .1254 RRF .1216 RTF .9888
 SGB 6549.3 R23 -.0028 R13 .9888
 SG1 6537.3 SG2 396.1 THA .44

ORBIT DETERMINATION ACCURACY

ST 3620.3 SR 366.9 SS 1642.0
 CRT .8535 CRS -.8272 CST -.9988
 LSA 3986.8 MSA 206.4 SSA 12.8
 EL1 3633.8 EL2 190.5 ALF 4.96

LAUNCH DATE DEC 5 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 590.359

RL 147.41 LAL -.00 LOL 72.93 VL 27.646 GAL 8.19 AZL 86.62 HCA 267.70 SMA 128.06 ECC .20649 INC 3.3798 V1 30.225
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.445 GAP 8.25 AZP 90.14 TAL 144.59 TAP 52.29 RCA 101.62 APO 154.50 V2 34.815
 RC 128.306 GL 17.58 GP 1.29 ZAL 38.49 ZAP 157.75 ETS 4.11 ZAE 122.82 ETE 177.86 ZAC 96.90 ETC 166.47 CLP-157.78

PLANETOCENTRIC CONIC

C3 28.539 VHL 5.342 CLA 30.74 RAL 29.24 RAD 6568.1 VEL 12.244 PTH 2.20 VHP 5.934 DPA -.67 RAP 3.40 ECC 1.4697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.50 0 43 27 3944.59 -18.85 163.01 264.23 65.25 1 49 11 3344.6 -22.03 155.59
 102.50 4 3 9 3302.10 -18.83 115.62 264.23 65.24 4 58 11 2702.1 -22.01 108.20
 77.50 0 43 27 3944.59 -18.85 163.01 264.23 65.25 1 49 11 3344.6 -22.03 155.59
 102.50 4 3 9 3302.10 -18.83 115.62 264.23 65.24 4 58 11 2702.1 -22.01 108.20
 110.00 6 48 2 2787.25 -30.24 81.18 268.97 73.25 7 34 29 2187.3 -32.24 72.53
 110.00 2 57 44 3507.43 -8.18 125.09 258.16 56.69 3 56 12 2907.4 -12.50 118.67

DIFFERENTIAL CORRECTIONS

TDE 3.0274 TRA 4.3041 TC3-1.9796 BAU .7561
 RDE .3507 RRA -.0848 RC3 .0939 FAU .03187
 FDE 2.5012 FRA 3.9967 FC3 -.9668 BSP 21502
 BOE 3.0476 BRA 4.3049 BC3 1.9818 FSP -1812

MID-COURSE EXECUTION ACCURACY

SGT 6622.9 SGR 403.4 SG3 497.4
 RRT .1649 RRF .1625 RTF .9884
 SGB 6635.2 R23 -.0011 R13 .9884
 SG1 6623.3 SG2 397.9 THA .58

ORBIT DETERMINATION ACCURACY

ST 3625.3 SR 377.5 SS 1574.7
 CRT .8549 CRS -.8291 CST -.9988
 LSA 3965.0 MSA 209.4 SSA 12.8
 EL1 3639.6 EL2 195.1 ALF 5.10

LAUNCH DATE DEC 5 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 596.103

RL 147.41 LAL -.00 LOL 72.93 VL 27.628 GAL 8.59 AZL 86.61 HCA 270.87 SMA 127.93 ECC .21209 INC 3.3912 V1 30.225
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.438 GAP 8.76 AZP 89.95 TAL 143.80 TAP 54.67 RCA 100.80 APO 155.06 V2 34.821
 RC 130.653 GL 17.02 GP 1.23 ZAL 37.60 ZAP 159.47 ETS 4.32 ZAE 122.15 ETE 177.92 ZAC 98.32 ETC 166.48 CLP-159.51

PLANETOCENTRIC CONIC

C3 30.464 VHL 5.519 CLA 30.49 RAL 30.26 RAD 6568.2 VEL 12.322 PTH 2.22 VHP 6.227 DPA -.13 RAP 4.74 ECC 1.5014
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.19 0 52 34 3944.94 -18.24 162.73 266.25 65.13 1 58 19 3344.9 -21.44 155.36
 101.81 4 2 12 3334.43 -18.22 117.74 266.25 65.12 4 57 46 2734.4 -21.43 110.37
 78.19 0 52 34 3944.94 -18.24 162.73 266.25 65.13 1 58 19 3344.9 -21.44 155.36
 101.81 4 2 12 3334.43 -18.22 117.74 266.25 65.12 4 57 46 2734.4 -21.43 110.37
 110.00 6 56 11 2790.18 -30.18 81.39 271.23 73.14 7 42 42 2190.2 -32.19 72.75
 110.00 2 57 45 3537.19 -7.06 126.67 259.87 56.47 3 56 42 2937.2 -11.42 120.29

DIFFERENTIAL CORRECTIONS

TDE 3.1029 TRA 4.5620 TC3-1.8669 BAU .7611
 RDE .3717 RRA -.0751 RC3 .0845 FAU .02785
 FDE 2.3456 FRA 3.8620 FC3 -.7915 BSP 21836
 BOE 3.1251 BRA 4.5626 BC3 1.8688 FSP -1678

MID-COURSE EXECUTION ACCURACY

SGT 6695.2 SGR 407.1 SG3 459.9
 RRT .2030 RRF .2016 RTF .9880
 SGB 6707.5 R23 .0004 R13 .9880
 SG1 6695.7 SG2 398.6 THA .71

ORBIT DETERMINATION ACCURACY

ST 3619.0 SR 386.8 SS 1509.9
 CRT .8557 CRS -.8304 CST -.9988
 LSA 3934.6 MSA 212.2 SSA 12.7
 EL1 3634.1 EL2 199.3 ALF 5.24

LAUNCH DATE DEC 5 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 601.793

RL 147.41 LAL -.00 LOL 72.93 VL 27.609 GAL 9.03 AZL 86.60 HCA 274.03 SMA 127.80 ECC .21817 INC 3.4025 V1 30.225
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.431 GAP 9.29 AZP 89.76 TAL 143.01 TAP 57.05 RCA 99.92 APO 155.68 V2 34.829
 RC 132.989 GL 16.46 GP 1.17 ZAL 36.70 ZAP 161.12 ETS 4.54 ZAE 121.54 ETE 177.99 ZAC 99.80 ETC 166.48 CLP-161.16

PLANETOCENTRIC CONIC

C3 32.626 VHL 5.712 CLA 30.22 RAL 31.28 RAD 6568.3 VEL 12.410 PTH 2.24 VHP 6.536 DPA .44 RAP 6.15 ECC 1.5369
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.97 1 2 25 3943.85 -17.60 162.34 268.32 65.02 2 8 9 3343.9 -20.82 155.00
 101.03 4 0 31 3370.00 -17.58 120.09 268.32 65.01 4 56 41 2770.0 -20.80 112.75
 78.97 1 2 25 3943.85 -17.60 162.34 268.32 65.02 2 8 9 3343.9 -20.82 155.00
 101.03 4 0 31 3370.00 -17.58 120.09 268.32 65.01 4 56 41 2770.0 -20.80 112.75
 110.00 7 4 27 2793.58 -30.12 81.63 273.56 73.01 7 51 0 2193.6 -32.14 73.00
 110.00 2 57 39 3568.27 -5.89 128.32 261.62 56.27 3 57 8 2968.3 -10.28 121.98

DIFFERENTIAL CORRECTIONS

TDE 3.1794 TRA 4.8359 TC3-1.7484 BAU .7633
 RDE .3929 RRA -.0642 RC3 .0754 FAU .02412
 FDE 2.2056 FRA 3.7423 FC3 -.6400 BSP 22129
 BOE 3.2036 BRA 4.8363 BC3 1.7500 FSP -1554

MID-COURSE EXECUTION ACCURACY

SGT 6758.5 SGR 410.3 SG3 425.9
 RRT .2405 RRF .2400 RTF .9876
 SGB 6770.9 R23 .0017 R13 .9876
 SG1 6759.2 SG2 398.2 THA .84

ORBIT DETERMINATION ACCURACY

ST 3607.1 SR 394.8 SS 1450.1
 CRT .8562 CRS -.8314 CST -.9989
 LSA 3901.7 MSA 214.6 SSA 12.6
 EL1 3623.0 EL2 203.1 ALF 5.37

LAUNCH DATE DEC 5 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 607.421

RL 147.41 LAL -.00 LOL 72.93 VL 27.589 GAL 9.51 AZL 86.59 HCA 277.20 SMA 127.67 ECC .22478 INC 3.4140 V1 30.225
 RP 108.78 LAP -3.39 LOP 350.14 VP 37.424 GAP 9.85 AZP 89.57 TAL 142.22 TAP 59.42 RCA 98.97 APO 156.37 V2 34.837
 RC 135.313 GL 15.88 GP 1.12 ZAL 35.81 ZAP 162.71 ETS 4.80 ZAE 120.97 ETE 178.06 ZAC 101.34 ETC 166.47 CLP-162.75

PLANETOCENTRIC CONIC

C3 35.060 VHL 5.921 CLA 29.94 RAL 32.30 RAD 6568.4 VEL 12.507 PTH 2.26 VHP 6.863 DPA 1.05 RAP 7.61 ECC 1.5770
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.85 1 13 6 3940.95 -16.92 161.79 270.44 64.93 2 18 47 3341.0 -20.16 154.49
 100.15 3 57 58 3409.20 -16.91 122.68 270.43 64.92 4 54 47 2809.2 -20.15 115.38
 79.85 1 13 6 3940.95 -16.92 161.79 270.44 64.93 2 18 47 3341.0 -20.16 154.49
 100.15 3 57 58 3409.20 -16.91 122.68 270.43 64.92 4 54 47 2809.2 -20.15 115.38
 110.00 7 12 47 2797.52 -30.04 81.91 275.95 72.86 7 59 24 2197.5 -32.09 73.30
 110.00 2 57 28 3600.63 -4.66 130.02 263.41 56.10 3 57 28 3000.6 -9.08 123.72

DIFFERENTIAL CORRECTIONS

TDE 3.2571 TRA 5.1271 TC3-1.6260 BAU .7628
 RDE .4145 RRA -.0519 RC3 .0667 FAU .02068
 FDE 2.0791 FRA 3.6362 FC3 -.5107 BSP 22394
 BOE 3.2833 BRA 5.1273 BC3 1.6274 FSP -1441

MID-COURSE EXECUTION ACCURACY

SGT 6813.2 SGR 412.9 SG3 395.0
 RRT .2774 RRF .2776 RTF .9873
 SGB 6825.7 R23 .0029 R13 .9873
 SG1 6814.1 SG2 396.7 THA .97

ORBIT DETERMINATION ACCURACY

ST 3589.8 SR 401.5 SS 1394.6
 CRT .8563 CRS -.8321 CST -.9989
 LSA 3865.9 MSA 216.7 SSA 12.5
 EL1 3606.3 EL2 206.4 ALF 5.49

LAUNCH DATE DEC 6 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 14 1969

HELIOCENTRIC CONIC

DISTANCE 130.842

RL 147.38 LAL -0.00 LOL 73.94 VL 16.307 GAL 27.11 AZL 86.80 MCA 37.71 SMA 86.46 ECC .77531 INC 3.2032 V1 30.229
 RP 107.52 LAP 1.96 LOP 111.61 VP 30.556 GAP -49.37 AZP 87.46 TAL 171.11 TAP 208.83 RCA 19.43 APO 153.49 V2 35.245
 RC 83.158 GL 2.65 GP -1.17 ZAL 64.05 ZAP 33.59 ETS 178.52 ZAE 134.16 ETE 186.79 ZAC 60.91 ETC 162.34 CLP 33.59

PLANETOCENTRIC CONIC

C3 307.051 VHL 17.523 OLA 6.37 RAL 8.07 RAD 6571.8 VEL 20.697 PTH 3.18 VHP 27.742 DPA -16.26 RAP 328.65 ECC 6.0533
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 15 2990.17 -28.04 95.72 274.86 85.86 6 56 5 2390.2 -28.32 87.06
 90.00 19 39 41 5236.79 26.59 235.84 268.30 79.88 21 6 58 4636.8 24.92 227.57
 100.00 7 30 37 2718.04 -29.64 75.83 275.00 85.96 8 15 55 2118.0 -29.89 67.04
 100.00 20 58 0 4984.15 28.17 216.95 267.97 79.57 22 21 4 4384.1 26.45 208.57
 110.00 8 45 48 2482.77 -34.00 58.32 275.35 86.22 9 27 10 1882.8 -34.15 49.08
 110.00 21 59 19 4792.18 32.46 201.42 267.02 78.64 23 19 11 4192.2 30.56 192.72

DIFFERENTIAL CORRECTIONS

TDE -.8535 TRA-2.0628 TC3 -.1119 BAU .4615
 RDE -1.2350 RRA .6181 RC3 -.0109 FAU .01152
 FDE .3764 FRA .7258 FC3 -.0325 BSP 2013
 BDE 1.5013 BRA 2.1534 BC3 .1124 FSP -51

MID-COURSE EXECUTION ACCURACY

SGT 832.0 SGR 453.7 SG3 25.2
 RRT -.0275 RRF .0242 RTF -.6253
 SGB 947.7 R23 .0003 R13 .6253
 SG1 832.1 SG2 453.5 THA 178.78

ORBIT DETERMINATION ACCURACY

ST 345.7 SR 408.4 SS 341.4
 CRT .7104 CRS .7791 CST .9930
 LSA 593.9 MSA 223.6 SSA 14.0
 EL1 496.2 EL2 200.2 ALF 51.64

LAUNCH DATE DEC 6 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 136.408

RL 147.38 LAL -0.00 LOL 73.94 VL 17.078 GAL 25.85 AZL 86.78 MCA 40.96 SMA 87.93 ECC .74857 INC 3.2237 V1 30.229
 RP 107.51 LAP 2.11 LOP 114.86 VP 30.979 GAP -47.15 AZP 87.56 TAL 170.22 TAP 211.18 RCA 22.11 APO 153.76 V2 35.249
 RC 80.975 GL 2.95 GP -1.18 ZAL 62.73 ZAP 32.06 ETS 178.59 ZAE 134.18 ETE 187.22 ZAC 62.56 ETC 162.70 CLP 32.06

PLANETOCENTRIC CONIC

C3 281.332 VHL 16.773 OLA 7.17 RAL 9.18 RAD 6571.6 VEL 20.066 PTH 3.14 VHP 26.718 DPA -15.71 RAP 330.34 ECC 5.6300
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 31 3004.88 -27.96 96.79 275.56 85.33 6 54 36 2404.9 -28.31 88.14
 90.00 19 50 14 5200.86 26.13 233.31 268.26 78.69 21 16 55 4600.9 24.31 225.12
 100.00 7 29 18 2731.45 -29.57 76.82 275.71 85.44 8 14 49 2131.5 -29.89 68.03
 100.00 21 8 9 4949.52 27.72 214.47 267.90 78.34 22 30 38 4349.5 25.83 206.18
 110.00 8 45 23 2493.34 -33.95 59.14 276.11 85.74 9 26 56 1893.3 -34.17 49.90
 110.00 22 8 33 4760.40 32.01 199.05 266.83 77.31 23 27 53 4160.4 29.93 190.46

DIFFERENTIAL CORRECTIONS

TDE -.8565 TRA-2.0794 TC3 -.1193 BAU .4510
 RDE -1.1964 RRA .5961 RC3 -.0123 FAU .01158
 FDE .3916 FRA .7525 FC3 -.0356 BSP 2158
 BDE 1.4714 BRA 2.1632 BC3 .1199 FSP -57

MID-COURSE EXECUTION ACCURACY

SGT 870.8 SGR 459.2 SG3 27.2
 RRT -.0271 RRF .0238 RTF -.6442
 SGB 984.4 R23 .0004 R13 .6443
 SG1 870.9 SG2 458.9 THA 178.87

ORBIT DETERMINATION ACCURACY

ST 363.1 SR 413.3 SS 357.2
 CRT .7087 CRS .7799 CST .9927
 LSA 614.3 MSA 229.7 SSA 14.2
 EL1 509.4 EL2 207.9 ALF 50.19

LAUNCH DATE DEC 6 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 142.091

RL 147.38 LAL -0.00 LOL 73.94 VL 17.801 GAL 24.68 AZL 86.76 MCA 44.21 SMA 89.43 ECC .72193 INC 3.2417 V1 30.229
 RP 107.50 LAP 2.26 LOP 118.10 VP 31.387 GAP -45.05 AZP 87.67 TAL 169.34 TAP 213.55 RCA 24.87 APO 153.99 V2 35.253
 RC 78.802 GL 2.26 GP -1.18 ZAL 61.47 ZAP 30.55 ETS 178.66 ZAE 134.29 ETE 187.67 ZAC 64.23 ETC 163.04 CLP 30.55

PLANETOCENTRIC CONIC

C3 257.912 VHL 16.080 OLA 7.95 RAL 10.23 RAD 6571.5 VEL 19.474 PTH 3.11 VHP 25.729 DPA -15.14 RAP 332.04 ECC 5.2446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 2 38 3018.82 -27.88 97.80 276.16 84.83 6 52 56 2418.8 -28.30 89.16
 90.00 20 0 34 5164.56 25.63 230.78 268.16 77.52 21 26 38 4564.6 23.65 222.66
 100.00 7 27 48 2744.09 -29.50 77.76 276.32 84.96 8 13 32 2144.1 -29.89 68.97
 100.00 21 18 4 4914.52 27.22 211.99 267.76 77.13 22 39 59 4314.5 25.17 203.79
 110.00 8 44 48 2503.12 -33.90 59.90 276.76 85.29 9 26 32 1903.1 -34.18 50.67
 110.00 22 17 33 4728.26 31.50 196.68 266.59 75.99 23 36 22 4128.3 29.26 188.20

DIFFERENTIAL CORRECTIONS

TDE -.8675 TRA-2.1036 TC3 -.1280 BAU .4440
 RDE -1.1575 RRA .5738 RC3 -.0139 FAU .01162
 FDE .4080 FRA .7804 FC3 -.0390 BSP 2125
 BDE 1.4465 BRA 2.1804 BC3 .1288 FSP -61

MID-COURSE EXECUTION ACCURACY

SGT 916.0 SGR 464.0 SG3 29.4
 RRT -.0247 RRF .0227 RTF -.6624
 SGB 1026.8 R23 -.0007 R13 .6625
 SG1 916.1 SG2 463.8 THA 179.04

ORBIT DETERMINATION ACCURACY

ST 384.2 SR 417.6 SS 374.1
 CRT .7088 CRS .7809 CST .9927
 LSA 637.4 MSA 235.5 SSA 14.4
 EL1 524.9 EL2 215.6 ALF 48.36

LAUNCH DATE DEC 6 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 147.885

RL 147.38 LAL -0.00 LOL 73.94 VL 18.479 GAL 23.58 AZL 86.74 MCA 47.45 SMA 90.93 ECC .69551 INC 3.2577 V1 30.229
 RP 107.49 LAP 2.40 LOP 121.35 VP 31.780 GAP -43.05 AZP 87.80 TAL 168.47 TAP 215.92 RCA 27.69 APO 154.18 V2 35.255
 RC 76.644 GL 3.59 GP -1.19 ZAL 60.26 ZAP 29.06 ETS 178.73 ZAE 134.47 ETE 188.14 ZAC 65.93 ETC 163.37 CLP 29.06

PLANETOCENTRIC CONIC

C3 236.558 VHL 15.380 OLA 8.73 RAL 11.24 RAD 6571.4 VEL 18.918 PTH 3.07 VHP 24.774 DPA -14.55 RAP 333.76 ECC 4.8932
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 33 3032.03 -27.79 98.75 276.65 84.36 6 51 5 2432.0 -28.29 90.12
 90.00 20 10 41 5127.83 25.06 228.24 268.00 76.37 21 36 9 4527.8 22.94 220.21
 100.00 7 26 9 2755.99 -29.43 78.63 276.83 84.50 8 12 5 2156.0 -29.88 69.86
 100.00 21 27 47 4879.12 26.65 209.51 267.57 75.94 22 49 6 4279.1 24.46 201.40
 110.00 8 44 4 2512.14 -33.84 60.60 277.32 84.88 9 25 56 1912.1 -34.18 51.37
 110.00 22 26 21 4695.73 30.94 194.31 266.29 74.69 23 44 37 4095.7 28.53 185.94

DIFFERENTIAL CORRECTIONS

TDE -.8885 TRA-2.1374 TC3 -.1387 BAU .4415
 RDE -1.1185 RRA .5513 RC3 -.0156 FAU .01162
 FDE .4259 FRA .8100 FC3 -.0425 BSP 1862
 BDE 1.4284 BRA 2.2074 BC3 .1396 FSP -63

MID-COURSE EXECUTION ACCURACY

SGT 969.9 SGR 468.1 SG3 31.8
 RRT -.0198 RRF .0208 RTF -.6796
 SGB 1076.9 R23 -.0032 R13 .6796
 SG1 969.9 SG2 467.9 THA 179.29

ORBIT DETERMINATION ACCURACY

ST 410.0 SR 421.3 SS 392.2
 CRT .7112 CRS .7823 CST .9929
 LSA 664.2 MSA 240.9 SSA 14.8
 EL1 543.8 EL2 223.3 ALF 46.09

LAUNCH DATE DEC 6 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 153.777

RL 147.38 LAL -1.00 LOL 73.94 VL 19.116 GAL 22.54 AZL 86.73 HCA 50.70 SMA 92.45 ECC .66941 INC 3.2721 VI 30.229
 RP 107.48 LAP 2.53 LOP 124.60 VP 32.156 GAP -41.16 AZP 87.93 TAL 167.61 TAP 218.31 RCA 30.56 APO 154.34 V2 35.257
 RC 74.503 GL 3.92 GP -1.19 ZAL 59.10 ZAP 27.59 ETS 178.80 ZAE 134.74 ETE 188.64 ZAC 67.64 ETC 163.68 CLP 27.59

PLANETOCENTRIC CONIC

C3 217.029 VHL 14.732 CLA 9.49 RAL 12.20 RAD 6571.2 VEL 18.394 PTH 3.04 VHP 23.849 DPA -13.94 RAP 335.48 ECC 4.5717
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 58 18 3044.48 -27.71 99.65 277.04 83.91 6 49 2 2444.5 -28.26 91.03
 90.00 20 20 36 5090.65 24.44 225.69 267.79 75.23 21 45 26 4490.6 22.17 217.75
 100.00 7 24 18 2767.09 -29.35 79.45 277.23 84.08 8 10 25 2167.1 -29.86 70.68
 100.00 21 37 17 4843.26 26.04 207.03 267.31 74.77 22 58 0 4243.3 23.69 199.01
 110.00 8 43 9 2520.35 -33.79 61.24 277.75 84.51 9 25 9 1920.3 -34.18 52.01
 110.00 22 34 55 4662.77 30.33 191.94 265.93 73.42 23 52 38 4062.8 27.76 183.69

DIFFERENTIAL CORRECTIONS

TDE -.8498 TRA-2.1108 TC3 -.1391 BAU .4068
 RDE-1.0802 RRA .5276 RC3 -.0176 FAU .01196
 FDE .4374 FRA .8331 FC3 -.0477 BSP 3039
 BDE 1.3744 BRA 2.1758 BC3 .1402 FSP -80

MID-COURSE EXECUTION ACCURACY

SGT 984.9 SGR 471.7 SG3 34.2
 RRT -.0282 RRF .0224 RTF -.6980
 SGB 1092.0 R23 .0031 R13 .6980
 SG1 985.0 SG2 471.4 THA 179.00

ORBIT DETERMINATION ACCURACY

ST 414.4 SR 424.7 SS 405.2
 CRT .7004 CRS .7819 CST .9913
 LSA 674.8 MSA 246.5 SSA 14.7
 EL1 547.2 EL2 229.6 ALF 46.01

LAUNCH DATE DEC 6 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 159.769

RL 147.38 LAL -1.00 LOL 73.94 VL 19.714 GAL 21.55 AZL 86.71 HCA 53.95 SMA 93.97 ECC .64377 INC 3.2853 VI 30.229
 RP 107.48 LAP 2.66 LOP 127.85 VP 32.517 GAP -39.35 AZP 88.07 TAL 166.76 TAP 220.71 RCA 33.48 APO 154.47 V2 35.258
 RC 72.381 GL 4.27 GP -.20 ZAL 58.00 ZAP 26.15 ETS 178.87 ZAE 135.10 ETE 189.16 ZAC 69.38 ETC 163.97 CLP 26.15

PLANETOCENTRIC CONIC

C3 199.207 VHL 14.114 CLA 10.25 RAL 13.11 RAD 6571.1 VEL 17.903 PTH 3.00 VHP 22.954 DPA -13.31 RAP 337.22 ECC 4.2784
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 50 3056.27 -27.62 100.51 277.32 83.49 6 46 46 2456.3 -28.23 91.89
 90.00 20 30 20 5052.94 23.76 223.13 267.51 74.13 21 54 33 4452.9 21.36 215.29
 100.00 7 22 16 2777.53 -29.28 80.22 277.53 83.68 8 8 33 2177.5 -29.84 71.46
 100.00 21 46 35 4806.92 25.36 204.54 267.00 73.63 23 6 42 4206.9 22.88 196.62
 110.00 8 42 3 2527.85 -33.74 61.82 278.09 84.17 9 24 11 1927.9 -34.18 52.60
 110.00 22 43 17 4629.36 29.65 189.57 265.52 72.16 24 0 27 4029.4 26.93 181.45

DIFFERENTIAL CORRECTIONS

TDE -.8595 TRA-2.1319 TC3 -.1478 BAU .3972
 RDE-1.0413 RRA .5045 RC3 -.0197 FAU .01206
 FDE .4549 FRA .8624 FC3 -.0524 BSP 3063
 BDE 1.3502 BRA 2.1908 BC3 .1491 FSP -85

MID-COURSE EXECUTION ACCURACY

SGT 1034.1 SGR 474.4 SG3 36.9
 RRT -.0253 RRF .0207 RTF -.7142
 SGB 1137.7 R23 .0022 R13 .7142
 SG1 1034.2 SG2 474.2 THA 179.16

ORBIT DETERMINATION ACCURACY

ST 437.6 SR 427.3 SS 423.1
 CRT .7008 CRS .7831 CST .9912
 LSA 699.8 MSA 251.2 SSA 14.9
 EL1 564.1 EL2 236.5 ALF 44.02

LAUNCH DATE DEC 6 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 165.852

RL 147.38 LAL -1.00 LOL 73.94 VL 20.276 GAL 20.62 AZL 86.70 HCA 57.20 SMA 95.49 ECC .61864 INC 3.2974 VI 30.229
 RP 107.48 LAP 2.77 LOP 131.10 VP 32.861 GAP -37.63 AZP 88.21 TAL 165.92 TAP 223.12 RCA 36.42 APO 154.56 V2 35.259
 RC 70.281 GL 4.63 GP -.20 ZAL 56.94 ZAP 24.72 ETS 178.93 ZAE 135.55 ETE 189.72 ZAC 71.14 ETC 164.26 CLP 24.72

PLANETOCENTRIC CONIC

C3 182.908 VHL 13.524 CLA 11.00 RAL 13.98 RAD 6571.0 VEL 17.442 PTH 2.96 VHP 22.088 DPA -12.66 RAP 338.96 ECC 4.0102
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 53 10 3067.41 -27.53 101.31 277.50 83.10 6 44 17 2467.4 -28.20 92.71
 90.00 20 39 53 5014.69 23.02 220.57 267.19 73.05 22 3 28 4414.7 20.49 212.82
 100.00 7 20 1 2787.28 -29.20 80.93 277.73 83.31 8 6 29 2187.3 -29.82 72.18
 100.00 21 55 43 4770.05 24.63 202.04 266.64 72.51 23 15 13 4170.0 22.01 194.23
 110.00 8 40 46 2534.63 -33.69 62.34 278.32 83.86 9 23 1 1934.6 -34.18 53.13
 110.00 22 51 28 4595.46 28.92 187.21 265.06 70.93 24 8 3 3995.5 26.05 179.21

DIFFERENTIAL CORRECTIONS

TDE -.8690 TRA-2.1518 TC3 -.1567 BAU .3868
 RDE-1.0025 RRA .4812 RC3 -.0219 FAU .01219
 FDE .4730 FRA .8922 FC3 -.0577 BSP 3107
 BDE 1.3268 BRA 2.2049 BC3 .1582 FSP -92

MID-COURSE EXECUTION ACCURACY

SGT 1085.1 SGR 476.5 SG3 39.9
 RRT -.0220 RRF .0187 RTF -.7297
 SGB 1185.1 R23 .0012 R13 .7297
 SG1 1085.2 SG2 476.3 THA 179.31

ORBIT DETERMINATION ACCURACY

ST 461.9 SR 429.3 SS 441.5
 CRT .7012 CRS .7844 CST .9911
 LSA 726.0 MSA 255.5 SSA 15.1
 EL1 581.9 EL2 242.9 ALF 42.02

LAUNCH DATE DEC 6 1968

FLIGHT TIME 84.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 172.018

RL 147.38 LAL -1.00 LOL 73.94 VL 20.803 GAL 19.72 AZL 86.69 HCA 60.44 SMA 97.00 ECC .59410 INC 3.3087 VI 30.229
 RP 107.48 LAP 2.88 LOP 134.35 VP 33.188 GAP -35.99 AZP 88.37 TAL 165.11 TAP 225.55 RCA 39.37 APO 154.63 V2 35.259
 RC 68.209 GL 5.00 GP -.21 ZAL 55.94 ZAP 23.30 ETS 178.99 ZAE 136.10 ETE 190.32 ZAC 72.91 ETC 164.52 CLP 23.30

PLANETOCENTRIC CONIC

C3 167.991 VHL 12.961 CLA 11.74 RAL 14.79 RAD 6570.8 VEL 17.009 PTH 2.92 VHP 21.249 DPA -12.00 RAP 340.71 ECC 3.7647
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 50 17 3077.93 -27.44 102.07 277.58 82.73 6 41 35 2477.9 -28.16 93.48
 90.00 20 49 17 4975.84 22.23 218.00 266.81 71.99 22 12 13 4375.8 19.56 210.34
 100.00 7 17 34 2796.39 -29.13 81.60 277.82 82.97 8 4 11 2196.4 -29.80 72.86
 100.00 22 4 40 4732.61 23.84 199.54 266.23 71.42 23 23 33 4132.6 21.08 191.83
 110.00 8 39 17 2540.71 -33.65 62.81 278.44 83.59 9 21 38 1940.7 -34.17 53.60
 110.00 22 59 27 4561.05 28.14 184.84 264.55 69.73 24 15 28 3961.1 25.12 176.97

DIFFERENTIAL CORRECTIONS

TDE -.8739 TRA-2.1659 TC3 -.1645 BAU .3734
 RDE -.9640 RRA .4578 RC3 -.0243 FAU .01236
 FDE .4912 FRA .9222 FC3 -.0637 BSP 3267
 BDE 1.3011 BRA 2.2137 BC3 .1663 FSP -101

MID-COURSE EXECUTION ACCURACY

SGT 1134.6 SGR 477.8 SG3 43.0
 RRT -.0196 RRF .0166 RTF -.7448
 SGB 1231.1 R23 .0011 R13 .7448
 SG1 1134.6 SG2 477.7 THA 179.42

ORBIT DETERMINATION ACCURACY

ST 485.2 SR 430.6 SS 460.0
 CRT .7009 CRS .7857 CST .9908
 LSA 751.7 MSA 259.3 SSA 15.3
 EL1 599.2 EL2 248.8 ALF 40.15

LAUNCH DATE DEC 6 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 178.262

RL 147.38 LAL -1.00 LOL 73.94 VL 21.298 GAL 18.87 AZL 86.68 HCA 63.69 SMA 98.50 ECC .57020 INC 3.3192 VI 30.229
 RP 107.48 LAP 2.98 LOP 137.60 VP 33.500 GAP -34.42 AZP 88.53 TAL 164.31 TAP 228.00 RCA 42.34 APO 154.67 V2 35.257
 RC 66.167 GL 5.39 GP -.22 ZAL 55.00 ZAP 21.90 ETS 179.05 ZAE 136.75 ETE 190.95 ZAC 74.70 ETC 164.77 CLP 21.90

PLANETOCENTRIC CONIC

C3 154.333 VHL 12.423 CLA 12.47 RAL 15.56 RAD 6570.7 VEL 16.603 PTH 2.89 VHP 20.436 DPA -11.32 RAP 342.47 ECC 3.5399
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 9 3087.89 -27.36 102.78 277.55 82.38 6 38 37 2487.9 -28.13 94.20
 90.00 20 58 31 4936.35 21.38 215.42 266.38 70.97 22 20 47 4336.4 18.58 207.86
 100.00 7 14 54 2804.89 -29.06 82.22 277.81 82.65 8 1 39 2204.9 -29.77 73.49
 100.00 22 13 27 4694.59 22.99 197.03 265.77 70.36 23 31 42 4094.6 20.11 189.43
 110.00 8 37 36 2546.13 -33.61 63.23 278.46 83.34 9 20 2 1946.1 -34.16 54.03
 110.00 23 7 15 4526.11 27.29 182.47 263.99 68.57 24 22 41 3926.1 24.13 174.73

DIFFERENTIAL CORRECTIONS

TOE -.8774 TRA-2.1770 TC3 -.1718 BAU .3589
 RDE -.9257 RRA .4345 RC3 -.0270 FAU .01257
 FDE .5101 FRA .9529 FC3 -.0705 BSP 3471
 BDE 1.2754 BRA 2.2200 BC3 .1739 FSP -110

MID-COURSE EXECUTION ACCURACY

SGT 1184.7 SGR 478.4 SG3 46.4
 RRT -.0171 RRF .0144 RTF -.7593
 SGB 1277.6 R23 .0012 R13 .7593
 SG1 1184.7 SG2 478.3 THA 179.53

ORBIT DETERMINATION ACCURACY

ST 509.0 SR 431.3 SS 479.0
 CRT .7004 CRS .7871 CST .9905
 LSA 778.0 MSA 262.6 SSA 15.4
 EL1 616.9 EL2 254.0 ALF 38.32

LAUNCH DATE DEC 6 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 184.578

RL 147.38 LAL -1.00 LOL 73.94 VL 21.763 GAL 18.06 AZL 86.67 HCA 66.94 SMA 99.99 ECC .54698 INC 3.3292 VI 30.229
 RP 107.49 LAP 3.06 LOP 140.85 VP 33.795 GAP -32.91 AZP 88.69 TAL 163.54 TAP 230.48 RCA 45.30 APO 154.68 V2 35.256
 RC 64.161 GL 5.79 GP -.23 ZAL 54.10 ZAP 20.51 ETS 179.09 ZAE 137.50 ETE 191.63 ZAC 76.50 ETC 165.01 CLP 20.51

PLANETOCENTRIC CONIC

C3 141.826 VHL 11.909 CLA 13.20 RAL 16.28 RAD 6570.5 VEL 16.222 PTH 2.85 VHP 19.648 DPA -10.63 RAP 344.23 ECC 3.3341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 46 3097.35 -27.27 103.46 277.42 82.05 6 35 24 2497.4 -28.09 94.89
 90.00 21 7 37 4896.21 20.46 212.83 265.90 69.99 22 29 13 4296.2 17.55 205.36
 100.00 7 11 59 2812.85 -28.99 82.80 277.69 82.35 7 58 52 2212.9 -29.74 74.08
 100.00 22 22 5 4655.94 22.09 194.52 265.26 69.33 23 39 41 4055.9 19.08 187.02
 110.00 8 35 42 2550.93 -33.57 63.60 278.37 83.13 9 18 13 1950.9 -34.15 54.40
 110.00 23 14 52 4490.63 26.38 180.11 263.39 67.43 24 29 43 3890.6 23.09 172.50

DIFFERENTIAL CORRECTIONS

TOE -.8804 TRA-2.1862 TC3 -.1787 BAU .3435
 RDE -.8876 RRA .4113 RC3 -.0298 FAU .01281
 FDE .5297 FRA .9843 FC3 -.0782 BSP 3697
 BDE 1.2502 BRA 2.2245 BC3 .1812 FSP -121

MID-COURSE EXECUTION ACCURACY

SGT 1236.0 SGR 478.2 SG3 50.1
 RRT -.0144 RRF .0118 RTF -.7731
 SGB 1325.3 R23 .0013 R13 .7731
 SG1 1236.0 SG2 478.2 THA 179.62

ORBIT DETERMINATION ACCURACY

ST 533.5 SR 431.4 SS 498.6
 CRT .7002 CRS .7886 CST .9902
 LSA 805.3 MSA 265.4 SSA 15.5
 EL1 635.5 EL2 258.5 ALF 36.50

LAUNCH DATE DEC 6 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 190.960

RL 147.38 LAL -1.00 LOL 73.94 VL 22.199 GAL 17.28 AZL 86.66 HCA 70.19 SMA 101.45 ECC .52448 INC 3.3387 VI 30.229
 RP 107.50 LAP 3.14 LOP 144.10 VP 34.075 GAP -31.47 AZP 88.87 TAL 162.79 TAP 232.98 RCA 48.24 APO 154.66 V2 35.253
 RC 62.196 GL 6.21 GP -.24 ZAL 53.26 ZAP 19.13 ETS 179.13 ZAE 138.36 ETE 192.36 ZAC 78.31 ETC 165.23 CLP 19.13

PLANETOCENTRIC CONIC

C3 130.372 VHL 11.418 CLA 13.92 RAL 16.94 RAD 6570.4 VEL 15.865 PTH 2.81 VHP 18.884 DPA -9.93 RAP 345.98 ECC 3.1456
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 40 8 3106.38 -27.18 104.11 277.19 81.74 6 31 54 2506.4 -28.04 95.55
 90.00 21 16 35 4855.37 19.49 210.23 265.38 69.04 22 37 30 4255.4 16.47 202.86
 100.00 7 8 50 2820.32 -28.92 83.35 277.47 82.07 7 55 50 2220.3 -29.71 74.63
 100.00 22 30 34 4616.66 21.12 192.00 264.70 68.34 23 47 31 4016.7 18.00 184.60
 110.00 8 33 34 2555.16 -33.53 63.92 278.18 82.94 9 16 9 1955.2 -34.15 54.73
 110.00 23 22 19 4454.59 25.42 177.75 262.75 66.34 24 36 33 3854.6 22.00 170.27

DIFFERENTIAL CORRECTIONS

TOE -.8869 TRA-2.1972 TC3 -.1863 BAU .3296
 RDE -.8499 RRA .3883 RC3 -.0328 FAU .01306
 FDE .5508 FRA 1.0171 FC3 -.0868 BSP 3849
 BDE 1.2284 BRA 2.2312 BC3 .1891 FSP -132

MID-COURSE EXECUTION ACCURACY

SGT 1292.0 SGR 477.3 SG3 54.1
 RRT -.0103 RRF .0085 RTF -.7861
 SGB 1377.3 R23 .0009 R13 .7861
 SG1 1292.0 SG2 477.3 THA 179.75

ORBIT DETERMINATION ACCURACY

ST 560.7 SR 430.7 SS 519.3
 CRT .7011 CRS .7904 CST .9901
 LSA 835.3 MSA 267.4 SSA 15.7
 EL1 656.6 EL2 262.3 ALF 34.58

LAUNCH DATE DEC 6 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 197.403

RL 147.38 LAL -1.00 LOL 73.94 VL 22.609 GAL 16.53 AZL 86.65 HCA 73.43 SMA 102.90 ECC .50272 INC 3.3478 VI 30.229
 RP 107.51 LAP 3.21 LOP 147.35 VP 34.340 GAP -30.08 AZP 89.04 TAL 162.06 TAP 235.50 RCA 51.17 APO 154.63 V2 35.250
 RC 60.278 GL 6.64 GP -.25 ZAL 52.47 ZAP 17.76 ETS 179.15 ZAE 139.33 ETE 193.16 ZAC 80.13 ETC 165.44 CLP 17.76

PLANETOCENTRIC CONIC

C3 119.878 VHL 10.949 CLA 14.63 RAL 17.56 RAD 6570.2 VEL 15.531 PTH 2.77 VHP 18.143 DPA -9.21 RAP 347.74 ECC 2.9729
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 36 12 3115.04 -27.10 104.73 276.87 81.44 6 28 7 2515.0 -28.00 96.18
 90.00 21 25 26 4813.81 18.46 207.62 264.81 68.14 22 45 40 4213.8 15.33 200.34
 100.00 7 5 24 2827.37 -28.85 83.86 277.16 81.81 7 52 32 2227.4 -29.68 75.15
 100.00 22 38 55 4576.72 20.10 189.48 264.10 67.40 23 55 12 3976.7 16.86 182.18
 110.00 8 31 13 2558.87 -33.50 64.21 277.89 82.77 9 13 52 1958.9 -34.14 55.02
 110.00 23 29 36 4417.99 24.40 175.40 262.07 65.28 24 43 14 3818.0 20.86 168.04

DIFFERENTIAL CORRECTIONS

TOE -.8910 TRA-2.2038 TC3 -.1926 BAU .3140
 RDE -.8126 RRA .3656 RC3 -.0360 FAU .01337
 FDE .5727 FRA 1.0506 FC3 -.0965 BSP 4070
 BDE 1.2059 BRA 2.2339 BC3 .1959 FSP -144

MID-COURSE EXECUTION ACCURACY

SGT 1347.5 SGR 475.5 SG3 58.4
 RRT -.0065 RRF .0050 RTF -.7987
 SGB 1429.0 R23 .0009 R13 .7987
 SG1 1347.5 SG2 475.5 THA 179.85

ORBIT DETERMINATION ACCURACY

ST 587.7 SR 429.3 SS 540.5
 CRT .7018 CRS .7923 CST .9898
 LSA 865.6 MSA 268.9 SSA 15.8
 EL1 677.8 EL2 265.2 ALF 32.77

LAUNCH DATE DEC 6 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC DISTANCE 203.900

RL 147.38 LAL -.00 LOL 73.94 VL 22.993 GAL 15.81 AZL 86.64 MCA 76.68 SMA 104.31 ECC .48173 INC 3.3567 V1 30.229
 RP 107.52 LAP 3.27 LOP 150.60 VP 34.590 GAP -28.75 AZP 89.23 TAL 161.37 TAP 238.05 RCA 54.06 APO 154.56 V2 35.246
 RC 58.412 GL 7.09 GP -.26 ZAL 51.74 ZAP 16.40 ETS 179.15 ZAE 140.43 ETE 194.02 ZAC 81.95 ETC 165.63 CLP 16.40

PLANETOCENTRIC CONIC

C3 110.267 VML 10.501 OLA 15.34 RAL 18.13 RAD 6570.1 VEL 15.219 PTH 2.73 VMP 17.425 DPA -8.49 RAP 349.50 ECC 2.8147
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 31 58 3123.43 -27.01 105.33 276.44 81.15 6 24 2 2523.4 -27.95 96.79
 90.00 21 34 12 4771.51 17.36 205.00 264.21 67.28 22 53 43 4171.5 14.14 197.81
 100.00 7 1 42 2834.07 -28.78 84.35 276.75 81.56 7 48 56 2234.1 -29.65 75.65
 100.00 22 47 9 4536.11 19.02 186.95 263.47 66.49 24 2 46 3936.1 15.67 179.75
 110.00 8 28 37 2562.11 -33.47 64.46 277.51 82.63 9 11 19 1962.1 -34.13 55.27
 110.00 23 36 44 4380.83 23.32 173.05 261.35 64.27 24 49 45 3780.8 19.67 165.82

DIFFERENTIAL CORRECTIONS

TDE -.8951 TRA-2.2084 TC3 -.1983 BAU .2980
 RDE -.7757 RRA .3432 RC3 -.0395 FAU .01371
 FDE .5958 FRA 1.0853 FC3 -.1076 BSP 4299
 BDE 1.1845 BRA 2.2349 BC3 .2022 FSP -158

MID-COURSE EXECUTION ACCURACY

SGT 1404.7 SGR 473.0 SG3 63.1
 RRT -.0021 RRF .0011 RTF -.8106
 SGB 1482.2 R23 .0009 R13 .8106
 SG1 1404.7 SG2 473.0 THA 179.95

ORBIT DETERMINATION ACCURACY

ST 615.8 SR 427.3 SS 562.7
 CRT .7028 CRS .7944 CST .9896
 LSA 897.4 MSA 269.8 SSA 15.9
 EL1 700.2 EL2 267.3 ALF 31.00

LAUNCH DATE DEC 6 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC DISTANCE 210.448

RL 147.38 LAL -.00 LOL 73.94 VL 23.353 GAL 15.12 AZL 86.63 MCA 79.92 SMA 105.70 ECC .46151 INC 3.3652 V1 30.229
 RP 107.53 LAP 3.31 LOP 153.85 VP 34.825 GAP -27.47 AZP 89.41 TAL 160.70 TAP 240.62 RCA 56.92 APO 154.48 V2 35.241
 RC 56.605 GL 7.55 GP -.27 ZAL 51.06 ZAP 15.04 ETS 179.13 ZAE 141.65 ETE 194.97 ZAC 83.78 ETC 165.81 CLP 15.04

PLANETOCENTRIC CONIC

C3 101.465 VML 10.073 OLA 16.05 RAL 18.65 RAD 6570.0 VEL 14.927 PTH 2.69 VMP 16.729 DPA -7.76 RAP 351.26 ECC 2.6698
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 27 25 3131.63 -26.92 105.91 275.92 80.87 6 19 37 2531.6 -27.91 97.38
 90.00 21 42 53 4728.46 16.21 202.36 263.57 66.46 23 1 41 4128.5 12.89 195.26
 100.00 6 57 42 2840.50 -28.72 84.81 276.24 81.32 7 45 3 2240.5 -29.62 76.13
 100.00 22 55 17 4494.82 17.87 184.41 262.80 65.63 24 10 12 3894.8 14.44 177.31
 110.00 8 25 46 2564.97 -33.45 64.67 277.02 82.50 9 8 31 1965.0 -34.12 55.50
 110.00 23 43 43 4343.12 22.19 170.71 260.61 63.30 24 56 6 3743.1 18.42 163.60

DIFFERENTIAL CORRECTIONS

TDE -.8999 TRA-2.2115 TC3 -.2034 BAU .2820
 RDE -.7394 RRA .3212 RC3 -.0431 FAU .01408
 FDE .6206 FRA 1.1215 FC3 -.1201 BSP 4525
 BDE 1.1647 BRA 2.2347 BC3 .2079 FSP -172

MID-COURSE EXECUTION ACCURACY

SGT 1464.0 SGR 469.7 SG3 68.2
 RRT .0029 RRF -.0035 RTF -.8220
 SGB 1537.5 R23 -.0008 R13 -.8220
 SG1 1464.0 SG2 469.6 THA .06

ORBIT DETERMINATION ACCURACY

ST 645.2 SR 424.5 SS 585.9
 CRT .7044 CRS .7968 CST .9894
 LSA 931.0 MSA 269.9 SSA 16.0
 EL1 724.2 EL2 268.4 ALF 29.26

LAUNCH DATE DEC 6 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC DISTANCE 217.040

RL 147.38 LAL -.00 LOL 73.94 VL 23.691 GAL 14.47 AZL 86.63 MCA 83.17 SMA 107.06 ECC .44208 INC 3.3737 V1 30.229
 RP 107.55 LAP 3.35 LOP 157.10 VP 35.047 GAP -26.24 AZP 89.60 TAL 160.06 TAP 243.23 RCA 59.73 APO 154.39 V2 35.235
 RC 54.864 GL 8.03 GP -.29 ZAL 50.44 ZAP 13.69 ETS 179.08 ZAE 142.99 ETE 196.01 ZAC 85.62 ETC 165.97 CLP 13.69

PLANETOCENTRIC CONIC

C3 93.406 VML 9.665 OLA 16.75 RAL 19.11 RAD 6569.8 VEL 14.654 PTH 2.65 VMP 16.053 DPA -7.02 RAP 353.01 ECC 2.5372
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 22 32 3139.77 -26.83 106.49 275.31 80.59 6 14 52 2539.8 -27.86 97.97
 90.00 21 51 29 4684.62 15.00 199.71 262.90 65.70 23 9 34 4084.6 11.60 192.69
 100.00 6 53 24 2846.77 -28.65 85.27 275.64 81.09 7 40 50 2246.8 -29.59 76.59
 100.00 23 3 19 4452.85 16.68 181.87 262.09 64.83 24 17 32 3852.9 13.15 174.86
 110.00 8 22 39 2567.51 -33.43 64.87 276.45 82.39 9 5 26 1967.5 -34.12 55.70
 110.00 23 50 33 4304.88 21.00 168.38 259.83 62.39 25 2 18 3704.9 17.13 161.39

DIFFERENTIAL CORRECTIONS

TDE -.9075 TRA-2.2152 TC3 -.2087 BAU .2671
 RDE -.7038 RRA .2996 RC3 -.0469 FAU .01448
 FDE .6474 FRA 1.1596 FC3 -.1342 BSP 4693
 BDE 1.1484 BRA 2.2354 BC3 .2139 FSP -188

MID-COURSE EXECUTION ACCURACY

SGT 1527.4 SGR 465.5 SG3 73.8
 RRT .0093 RRF -.0087 RTF -.8325
 SGB 1596.8 R23 -.0002 R13 -.8325
 SG1 1527.4 SG2 465.5 THA .18

ORBIT DETERMINATION ACCURACY

ST 677.4 SR 420.9 SS 610.5
 CRT .7070 CRS .7995 CST .9894
 LSA 967.5 MSA 269.2 SSA 16.1
 EL1 751.0 EL2 268.5 ALF 27.53

LAUNCH DATE DEC 6 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC DISTANCE 223.672

RL 147.38 LAL -.00 LOL 73.94 VL 24.008 GAL 13.83 AZL 86.62 MCA 86.41 SMA 108.38 ECC .42344 INC 3.3819 V1 30.229
 RP 107.57 LAP 3.38 LOP 160.35 VP 35.256 GAP -25.05 AZP 89.79 TAL 159.45 TAP 245.87 RCA 62.49 APO 154.27 V2 35.229
 RC 53.197 GL 8.53 GP -.30 ZAL 49.87 ZAP 12.34 ETS 178.98 ZAE 144.47 ETE 197.18 ZAC 87.45 ETC 166.12 CLP 12.33

PLANETOCENTRIC CONIC

C3 86.028 VML 9.275 OLA 17.45 RAL 19.53 RAD 6569.7 VEL 14.400 PTH 2.62 VMP 15.399 DPA -6.27 RAP 354.76 ECC 2.4158
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 17 17 3147.95 -26.74 107.07 274.60 80.32 6 9 45 2548.0 -27.81 98.57
 90.00 22 0 3 4639.99 13.73 197.05 262.19 64.99 23 17 23 4040.0 10.25 190.10
 100.00 6 48 45 2852.97 -28.59 85.72 274.95 80.87 7 36 18 2253.0 -29.55 77.05
 100.00 23 11 16 4410.20 15.42 179.32 261.36 64.07 24 24 46 3810.2 11.81 172.39
 110.00 8 19 15 2569.81 -33.40 65.05 275.78 82.28 9 2 5 1969.8 -34.11 55.88
 110.00 0 1 11 4266.12 19.76 166.06 259.03 61.52 1 12 17 3666.1 15.80 159.17

DIFFERENTIAL CORRECTIONS

TDE -.9127 TRA-2.2140 TC3 -.2119 BAU .2507
 RDE -.6687 RRA .2786 RC3 -.0508 FAU .01494
 FDE .6758 FRA 1.1989 FC3 -.1504 BSP 4931
 BDE 1.1315 BRA 2.2315 BC3 .2180 FSP -206

MID-COURSE EXECUTION ACCURACY

SGT 1589.9 SGR 460.5 SG3 79.9
 RRT .0155 RRF -.0143 RTF -.8427
 SGB 1655.3 R23 -.0000 R13 -.8427
 SG1 1589.9 SG2 460.4 THA .28

ORBIT DETERMINATION ACCURACY

ST 709.2 SR 416.6 SS 636.1
 CRT .7096 CRS .8023 CST .9892
 LSA 1004.6 MSA 267.9 SSA 16.2
 EL1 777.8 EL2 267.7 ALF 25.92

LAUNCH DATE DEC 6 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 230.339

RL 147.38 LAL -0.00 LOL 73.94 VL 24.305 GAL 13.23 AZL 86.61 HCA 89.65 SMA 109.66 ECC .40559 INC 3.3902 V1 30.229
 RP 107.59 LAP 3.39 LOP 183.60 VP 35.452 GAP -23.90 AZP 89.98 TAL 158.88 TAP 248.54 RCA 65.18 APO 154.14 V2 35.222
 RC 51.811 GL 9.04 GP -32 ZAL 49.36 ZAP 10.98 ETS 178.83 ZAE 146.09 ETE 198.48 ZAC 89.29 ETC 166.25 CLP 10.98

PLANETOCENTRIC CONIC

C3 79.277 VHL 8.904 DLA 18.15 RAL 19.89 RAD 6569.5 VEL 14.164 PTH 2.58 VHP 14.764 DPA -5.53 RAP 356.50 ECC 2.3047
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 11 30 3156.31 -26.64 107.66 273.82 80.04 6 4 15 2556.3 -27.75 99.17
 90.00 22 8 36 4594.54 12.41 194.37 261.46 64.34 23 25 11 3994.5 8.86 187.49
 100.00 6 43 46 2859.22 -28.52 86.17 274.18 80.64 7 31 25 2259.2 -29.52 77.51
 100.00 23 19 9 4366.87 14.12 176.77 280.60 63.38 24 31 56 3766.9 10.43 169.92
 110.00 8 15 35 2571.97 -33.38 65.21 275.03 82.19 8 58 27 1972.0 -34.10 56.04
 110.00 0 7 46 4226.88 18.47 183.75 256.20 60.71 1 18 13 3626.9 14.42 136.97

DIFFERENTIAL CORRECTIONS

TDE -.9183 TRA-2.2106 TC3 -.2140 BAU .2341
 RDE -.6344 RRA .2580 RC3 -.0549 FAU .01546
 FDE .7063 FRA 1.2401 FC3 -.1689 B8P 5109
 BDE 1.1162 BRA 2.2256 BC3 .2209 F8P -225

MID-COURSE EXECUTION ACCURACY

SGT 1853.9 SGR 454.7 SCS 86.5
 RRT .0225 RRF -.0206 RTF -.8523
 SGB 1715.3 R23 .0002 R13 -.8523
 SGI 1853.9 SGT 454.8 THA .38

ORBIT DETERMINATION ACCURACY

ST 742.3 SR 411.6 SS 663.0
 CRT .7126 CRS .8053 CST .9892
 LSA 1043.6 MSA 265.9 SSA 16.3
 EL1 806.1 EL2 265.9 ALF 24.38

LAUNCH DATE DEC 6 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 237.036

RL 147.38 LAL -0.00 LOL 73.94 VL 24.562 GAL 12.65 AZL 86.60 HCA 92.89 SMA 110.91 ECC .38852 INC 3.3984 V1 30.229
 RP 107.61 LAP 3.39 LOP 186.84 VP 35.636 GAP -22.80 AZP 90.17 TAL 158.34 TAP 251.24 RCA 67.82 APO 153.99 V2 35.215
 RC 50.116 GL 8.57 GP -34 ZAL 48.90 ZAP 9.62 ETS 178.59 ZAE 147.83 ETE 199.97 ZAC 91.11 ETC 166.37 CLP 9.62

PLANETOCENTRIC CONIC

C3 75.102 VHL 8.550 DLA 18.84 RAL 20.20 RAD 6569.4 VEL 13.945 PTH 2.55 VHP 14.148 DPA -4.78 RAP 358.24 ECC 2.2031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 5 35 3164.99 -26.54 108.28 272.95 79.74 5 58 20 2565.0 -27.69 99.80
 90.00 22 17 9 4548.27 11.03 191.67 260.71 63.75 23 32 57 3948.3 7.42 184.85
 100.00 6 38 25 2865.63 -28.45 86.63 273.32 80.40 7 28 10 2265.6 -29.48 77.98
 100.00 23 27 0 4322.86 12.76 174.21 259.82 62.74 24 39 3 3722.9 9.01 167.43
 110.00 8 11 36 2574.06 -33.37 65.37 274.21 82.10 8 54 30 1974.1 -34.10 56.21
 110.00 0 14 14 4187.19 17.13 181.45 257.35 59.96 1 24 1 3587.2 13.01 154.76

DIFFERENTIAL CORRECTIONS

TDE -.9247 TRA-2.2055 TC3 -.2147 BAU .2177
 RDE -.6006 RRA .2381 RC3 -.0592 FAU .01603
 FDE .7394 FRA 1.2637 FC3 -.1689 B8P 5407
 BDE 1.1028 BRA 2.2183 BC3 .2227 F8P -248

MID-COURSE EXECUTION ACCURACY

SGT 1719.8 SGR 448.1 SCS 93.7
 RRT .0303 RRF -.0275 RTF -.8614
 SGB 1777.2 R23 .0005 R13 -.8614
 SGI 1719.8 SGT 447.9 THA .48

ORBIT DETERMINATION ACCURACY

ST 778.9 SR 405.8 SS 691.5
 CRT .7163 CRS .8089 CST .9891
 LSA 1084.8 MSA 263.2 SSA 16.4
 EL1 836.1 EL2 263.1 ALF 22.91

LAUNCH DATE DEC 6 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 243.758

RL 147.38 LAL -0.00 LOL 73.94 VL 24.842 GAL 12.09 AZL 86.59 HCA 96.13 SMA 112.11 ECC .37222 INC 3.4067 V1 30.229
 RP 107.64 LAP 3.39 LOP 170.09 VP 35.807 GAP -21.74 AZP 90.36 TAL 157.84 TAP 253.97 RCA 70.38 APO 153.84 V2 35.207
 RC 48.721 GL 10.12 GP -36 ZAL 48.51 ZAP 8.26 ETS 178.22 ZAE 149.71 ETE 201.68 ZAC 92.94 ETC 166.48 CLP 8.25

PLANETOCENTRIC CONIC

C3 67.457 VHL 8.213 DLA 19.54 RAL 20.46 RAD 6569.3 VEL 13.741 PTH 2.51 VHP 13.552 DPA -4.03 RAP 359.96 ECC 2.1102
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 59 4 3174.14 -26.43 108.92 272.00 79.44 5 51 58 2574.1 -27.62 100.46
 90.00 22 25 43 4501.14 9.60 188.94 259.95 63.23 23 40 45 3901.1 5.93 182.19
 100.00 6 32 40 2872.33 -28.37 87.12 272.39 80.16 7 20 32 2272.3 -29.44 78.47
 100.00 23 34 49 4278.18 11.35 171.64 259.02 62.16 24 46 7 3678.2 7.54 164.92
 110.00 8 7 19 2576.20 -33.35 65.53 273.30 82.00 8 50 15 1976.2 -34.09 56.37
 110.00 0 20 35 4147.08 15.75 159.16 256.49 59.26 1 29 42 3547.1 11.55 152.57

DIFFERENTIAL CORRECTIONS

TDE -.9312 TRA-2.1977 TC3 -.2138 BAU .2011
 RDE -.5680 RRA .2189 RC3 -.0635 FAU .01667
 FDE .7752 FRA 1.3294 FC3 -.2139 B8P 5652
 BDE 1.0908 BRA 2.2086 BC3 .2230 F8P -270

MID-COURSE EXECUTION ACCURACY

SGT 1786.5 SGR 440.6 SCS 101.7
 RRT .0387 RRF -.0351 RTF -.8700
 SGB 1840.1 R23 .0008 R13 -.8700
 SGI 1786.6 SGT 440.3 THA .58

ORBIT DETERMINATION ACCURACY

ST 812.6 SR 399.2 SS 721.5
 CRT .7205 CRS .8126 CST .9891
 LSA 1128.1 MSA 259.8 SSA 16.4
 EL1 867.4 EL2 259.4 ALF 21.51

LAUNCH DATE DEC 6 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 250.503

RL 147.38 LAL -0.00 LOL 73.94 VL 25.085 GAL 11.56 AZL 86.58 HCA 99.37 SMA 113.27 ECC .35669 INC 3.4150 V1 30.229
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.968 GAP -20.71 AZP 90.56 TAL 157.38 TAP 256.75 RCA 72.87 APO 153.67 V2 35.198
 RC 47.437 GL 10.69 GP -38 ZAL 48.16 ZAP 6.89 ETS 177.64 ZAE 151.71 ETE 203.68 ZAC 94.75 ETC 166.57 CLP 6.88

PLANETOCENTRIC CONIC

C3 62.300 VHL 7.893 DLA 20.23 RAL 20.67 RAD 6569.2 VEL 13.552 PTH 2.48 VHP 12.974 DPA -3.28 RAP 1.67 ECC 2.0253
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 4 3183.96 -26.30 109.62 270.98 79.11 5 45 8 2584.0 -27.54 101.17
 90.00 22 34 22 4453.12 8.12 186.20 259.16 62.78 23 48 35 3853.1 4.40 179.48
 100.00 6 26 30 2879.48 -28.29 87.63 271.39 79.90 7 14 29 2279.5 -29.39 79.00
 100.00 23 42 37 4232.84 9.90 169.05 258.21 61.65 24 53 10 3632.8 6.04 182.40
 110.00 8 2 42 2578.48 -33.32 65.71 272.33 81.90 8 45 41 1978.5 -34.08 56.55
 110.00 0 26 50 4106.60 14.33 156.89 255.61 58.63 1 35 17 3506.6 10.07 150.37

DIFFERENTIAL CORRECTIONS

TDE -.9385 TRA-2.1880 TC3 -.2109 BAU .1845
 RDE -.5361 RRA .2003 RC3 -.0679 FAU .01738
 FDE .8143 FRA 1.3780 FC3 -.2415 B8P 5895
 BDE 1.0808 BRA 2.1971 BC3 .2216 F8P -295

MID-COURSE EXECUTION ACCURACY

SGT 1854.7 SGR 432.4 SCS 110.3
 RRT .0480 RRF -.0434 RTF -.8782
 SGB 1904.5 R23 .0012 R13 -.8782
 SGI 1854.9 SGT 431.9 THA .68

ORBIT DETERMINATION ACCURACY

ST 849.7 SR 391.9 SS 753.5
 CRT .7252 CRS .8166 CST .9891
 LSA 1173.8 MSA 255.7 SSA 16.4
 EL1 900.5 EL2 254.7 ALF 20.18

LAUNCH DATE DEC 6 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 257.264

RL 147.38 LAL -0.00 LOL 73.94 VL 25.313 GAL 11.05 AZL 86.58 MCA 102.61 SMA 114.39 ECC .34191 INC 3.4235 V1 30.229
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.118 GAP -19.72 AZP 90.75 TAL 156.95 TAP 259.55 RCA 75.28 APO 153.50 V2 35.189
 RC 46.274 GL 11.27 GP -.41 ZAL 47.88 ZAP 5.51 ETS 176.67 ZAE 153.83 ETE 206.03 ZAC 96.55 ETC 166.64 CLP 5.50

PLANETOCENTRIC CONIC

C3 57.590 VHL 7.589 DLA 20.92 RAL 20.82 RAD 6569.0 VEL 13.377 PTH 2.45 VHP 12.414 DPA -2.55 RAP 3.37 ECC 1.9478
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 44 33 3194.63 -26.16 110.37 269.89 78.76 5 37 48 2594.6 -27.45 101.94
 90.00 22 43 7 4404.17 6.58 183.42 258.37 62.40 23 56 31 3804.2 2.83 176.74
 100.00 6 19 53 2887.21 -28.19 88.19 270.33 79.62 7 8 1 2287.2 -29.33 79.57
 100.00 23 50 27 4186.82 8.40 166.46 257.39 61.21 25 0 14 3586.8 4.49 159.85
 110.00 7 57 46 2581.00 -33.30 65.90 271.30 81.79 8 40 47 1981.0 -34.08 56.75
 110.00 0 33 0 4065.80 12.87 154.62 254.73 58.05 1 40 46 3465.8 8.55 148.18

DIFFERENTIAL CORRECTIONS

TDE -.9461 TRA-2.1758 TC3 -.2059 BAU .1681
 RDE -.5050 RRA .1825 RC3 -.0724 FAU .01816
 FDE .8570 FRA 1.4295 FC3 -.2730 BSP 6141
 BDE 1.0725 BRA 2.1834 BC3 .2183 FSP -323

MID-COURSE EXECUTION ACCURACY

SGT 1923.8 SGR 423.3 SG3 119.9
 RRT .0581 RRF -.0524 RTF -.8859
 SGB 1969.8 R23 .0017 R13 -.8859
 SG1 1923.9 SG2 422.6 THA .77

ORBIT DETERMINATION ACCURACY

ST 888.1 SR 383.9 SS 787.4
 CRT .7306 CRS .8209 CST .9892
 LSA 1221.8 MSA 251.0 SSA 16.5
 EL1 934.9 EL2 249.0 ALF 18.92

LAUNCH DATE DEC 6 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 264.040

RL 147.38 LAL -0.00 LOL 73.94 VL 25.525 GAL 10.57 AZL 86.57 MCA 105.84 SMA 115.46 ECC .32787 INC 3.4323 V1 30.229
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.258 GAP -18.76 AZP 90.94 TAL 156.56 TAP 262.40 RCA 77.61 APO 153.32 V2 35.179
 RC 45.244 GL 11.87 GP -.44 ZAL 47.64 ZAP 4.12 ETS 174.93 ZAE 156.04 ETE 208.87 ZAC 98.34 ETC 166.71 CLP 4.10

PLANETOCENTRIC CONIC

C3 53.292 VHL 7.300 DLA 21.61 RAL 20.92 RAD 6568.9 VEL 13.216 PTH 2.41 VHP 11.872 DPA -1.81 RAP 5.06 ECC 1.8771
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 28 3206.38 -26.00 111.19 268.73 78.38 5 29 54 2606.4 -27.35 102.78
 90.00 22 52 0 4354.21 5.00 180.60 257.58 62.09 24 4 35 3754.2 1.22 173.95
 100.00 6 12 49 2895.70 -28.09 88.80 269.20 79.32 7 1 4 2295.7 -29.27 80.19
 100.00 0 2 16 4140.12 6.86 163.85 256.56 60.83 1 11 16 3540.1 2.92 157.28
 110.00 7 52 29 2583.87 -33.27 66.12 270.20 81.66 8 35 33 1983.9 -34.07 56.97
 110.00 0 39 5 4024.72 11.38 152.37 253.83 57.55 1 46 10 3424.7 7.01 146.00

DIFFERENTIAL CORRECTIONS

TDE -.9542 TRA-2.1612 TC3 -.1985 BAU .1517
 RDE -.4749 RRA .1654 RC3 -.0768 FAU .01903
 FDE .9037 FRA 1.4845 FC3 -.3092 BSP 6390
 BDE 1.0659 BRA 2.1675 BC3 .2129 FSP -355

MID-COURSE EXECUTION ACCURACY

SGT 1993.4 SGR 413.5 SG3 130.4
 RRT .0691 RRF -.0622 RTF -.8931
 SGB 2035.8 R23 .0022 R13 -.8931
 SG1 1993.6 SG2 412.5 THA .86

ORBIT DETERMINATION ACCURACY

ST 927.7 SR 375.1 SS 823.5
 CRT .7365 CRS .8254 CST .9893
 LSA 1272.3 MSA 245.7 SSA 16.5
 EL1 970.8 EL2 242.5 ALF 17.72

LAUNCH DATE DEC 6 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 270.826

RL 147.38 LAL -0.00 LOL 73.94 VL 25.723 GAL 10.10 AZL 86.56 MCA 109.07 SMA 116.49 ECC .31455 INC 3.4413 V1 30.229
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.387 GAP -17.84 AZP 91.13 TAL 156.21 TAP 265.28 RCA 79.85 APO 153.13 V2 35.169
 RC 44.357 GL 12.49 GP -.47 ZAL 47.47 ZAP 2.72 ETS 171.17 ZAE 158.31 ETE 212.35 ZAC 100.10 ETC 166.76 CLP 2.68

PLANETOCENTRIC CONIC

C3 49.373 VHL 7.027 DLA 22.30 RAL 20.97 RAD 6568.8 VEL 13.067 PTH 2.38 VHP 11.347 DPA -1.09 RAP 6.73 ECC 1.8126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 44 3219.46 -25.82 112.10 267.52 77.96 5 21 24 2619.5 -27.22 103.72
 90.00 23 1 7 4303.15 3.36 177.74 256.78 61.87 24 12 50 3703.2 -4.3 171.11
 100.00 6 5 14 2905.12 -27.97 89.47 268.01 78.99 6 53 39 2305.1 -29.20 80.88
 100.00 0 10 14 4092.72 5.28 161.22 255.73 60.54 1 18 27 3492.7 1.32 154.67
 110.00 7 46 51 2587.20 -33.24 66.38 269.06 81.51 8 29 58 1987.2 -34.05 57.23
 110.00 0 45 7 3983.40 9.86 150.14 252.93 57.10 1 51 30 3383.4 5.45 143.82

DIFFERENTIAL CORRECTIONS

TDE -.9630 TRA-2.1445 TC3 -.1888 BAU .1357
 RDE -.4457 RRA .1491 RC3 -.0811 FAU .01999
 FDE .9552 FRA 1.5433 FC3 -.3506 BSP 6638
 BDE 1.0611 BRA 2.1497 BC3 .2055 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 2063.7 SGR 402.9 SG3 142.0
 RRT .0809 RRF -.0728 RTF -.9000
 SGB 2102.6 R23 .0029 R13 -.8999
 SG1 2064.0 SG2 401.5 THA .94

ORBIT DETERMINATION ACCURACY

ST 968.5 SR 365.5 SS 862.2
 CRT .7429 CRS .8303 CST .9895
 LSA 1325.6 MSA 239.9 SSA 16.5
 EL1 1008.2 EL2 235.1 ALF 16.59

LAUNCH DATE DEC 6 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 277.618

RL 147.38 LAL -0.00 LOL 73.94 VL 25.907 GAL 9.66 AZL 86.55 MCA 112.30 SMA 117.47 ECC .30194 INC 3.4506 V1 30.229
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.508 GAP -16.94 AZP 91.31 TAL 155.89 TAP 268.20 RCA 82.00 APO 152.94 V2 35.158
 RC 43.625 GL 13.13 GP -.51 ZAL 47.35 ZAP 1.34 ETS 159.00 ZAE 160.60 ETE 216.68 ZAC 101.85 ETC 166.79 CLP 1.24

PLANETOCENTRIC CONIC

C3 45.802 VHL 6.768 DLA 22.98 RAL 20.97 RAD 6568.7 VEL 12.929 PTH 2.36 VHP 10.838 DPA -.38 RAP 8.37 ECC 1.7538
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 19 3234.19 -25.61 113.13 266.24 77.48 5 12 13 2634.2 -27.08 104.77
 90.00 23 10 30 4250.82 1.68 174.82 256.00 61.73 24 21 21 3650.8 -2.11 168.19
 100.00 5 57 6 2915.68 -27.83 90.22 266.77 78.61 6 45 42 2315.7 -29.11 81.66
 100.00 0 18 20 4044.57 3.66 158.56 254.90 60.31 1 25 45 3444.6 -3.32 152.03
 110.00 7 40 51 2591.11 -33.20 66.67 267.87 81.34 8 24 2 1991.1 -34.04 57.53
 110.00 0 51 5 3941.91 8.32 147.92 252.03 56.72 1 56 47 3341.9 3.88 141.64

DIFFERENTIAL CORRECTIONS

TDE -.9725 TRA-2.1261 TC3 -.1762 BAU .1199
 RDE -.4174 RRA .1336 RC3 -.0853 FAU .02106
 FDE 1.0122 FRA 1.6066 FC3 -.3981 BSP 6874
 BDE 1.0583 BRA 2.1303 BC3 .1958 FSP -427

MID-COURSE EXECUTION ACCURACY

SGT 2134.8 SGR 391.5 SG3 154.7
 RRT .0936 RRF -.0842 RTF -.9064
 SGB 2170.4 R23 .0035 R13 -.9064
 SG1 2135.1 SG2 389.7 THA 1.02

ORBIT DETERMINATION ACCURACY

ST 1010.9 SR 355.3 SS 903.5
 CRT .7499 CRS .8354 CST .9897
 LSA 1381.9 MSA 233.5 SSA 16.4
 EL1 1047.2 EL2 226.9 ALF 15.51

LAUNCH DATE DEC 6 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 284.415

RL 147.38 LAL -.00 LOL 73.94 VL 26.079 GAL 9.24 AZL 86.54 MCA 115.53 SMA 118.41 ECC .29002 INC 3.4604 V1 30.229
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.619 GAP -16.08 AZP 91.49 TAL 155.62 TAP 271.16 RCA 84.07 APO 152.75 V2 35.147
 RC 43.055 GL 13.78 GP -.55 ZAL 47.29 ZAP .59 ETS 69.39 ZAE 162.85 ETE 222.20 ZAC 103.57 ETC 166.81 CLP -.22

PLANETOCENTRIC CONIC

C3 42.551 VHL 6.523 DLA 23.66 RAL 20.91 RAD 6568.6 VEL 12.803 PTH 2.33 VHP 10.346 DPA .31 RAP 10.00 ECC 1.7003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 8 5 3250.94 -25.36 114.29 264.91 76.95 5 2 16 2650.9 -26.90 105.97
 90.00 23 20 17 4197.03 -.06 171.82 255.22 61.68 24 30 14 3597.0 -3.84 165.18
 100.00 5 48 23 2927.59 -27.66 91.07 265.48 78.19 6 37 10 2327.6 -29.01 82.53
 100.00 0 26 37 3995.61 2.01 155.87 254.08 60.17 1 33 12 3395.6 -1.98 149.35
 110.00 7 34 28 2595.69 -33.15 67.02 266.64 81.14 8 17 44 1995.7 -34.02 57.89
 110.00 0 57 1 3900.27 6.75 145.70 251.14 56.41 2 2 1 3300.3 2.29 139.46

DIFFERENTIAL CORRECTIONS

TDE -.9810 TRA-2.1036 TC3 -.1601 BAU .1043
 RDE -.3899 RRA .1190 RC3 -.0892 FAU .02226
 FDE 1.0751 FRA 1.6745 FC3 -.4529 BSP 7145
 BOE 1.0557 BRA 2.1070 BC3 .1833 FSP -470

MID-COURSE EXECUTION ACCURACY

SGT 2203.6 SGR 379.3 SG3 168.9
 RRT .1066 RRF -.0962 RTF -.9125
 SGB 2236.0 R23 .0040 R13 -.9125
 SG1 2204.0 SG2 377.1 THA 1.08

ORBIT DETERMINATION ACCURACY

ST 1053.0 SR 344.2 SS 947.8
 CRT .7571 CRS .8408 CST .9899
 LSA 1440.1 MSA 226.9 SSA 16.4
 EL1 1086.1 EL2 218.0 ALF 14.50

LAUNCH DATE DEC 6 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 291.212

RL 147.38 LAL -.00 LOL 73.94 VL 26.240 GAL 8.84 AZL 86.53 MCA 118.76 SMA 119.30 ECC .27876 INC 3.4707 V1 30.229
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.722 GAP -15.24 AZP 91.67 TAL 155.39 TAP 274.15 RCA 86.05 APO 152.56 V2 35.135
 RC 42.657 GL 14.45 GP -.60 ZAL 47.28 ZAP 1.81 ETS 20.59 ZAE 164.97 ETE 229.32 ZAC 105.26 ETC 166.83 CLP -1.71

PLANETOCENTRIC CONIC

C3 39.594 VHL 6.292 DLA 24.34 RAL 20.80 RAD 6568.5 VEL 12.687 PTH 2.30 VHP 9.870 DPA .98 RAP 11.59 ECC 1.6516
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 56 3270.19 -25.05 115.62 263.52 76.35 4 51 26 2670.2 -26.69 107.33
 90.00 23 30 35 4141.41 -1.85 168.71 254.47 61.74 24 39 36 3541.4 -5.62 162.06
 100.00 5 39 0 2941.12 -27.47 92.03 264.14 77.72 6 28 1 2341.1 -28.89 83.51
 100.00 0 35 8 3945.72 .32 153.13 253.27 60.11 1 40 54 3345.7 -3.66 146.60
 110.00 7 27 42 2601.07 -33.09 67.43 265.37 80.90 8 11 3 2001.1 -34.00 58.31
 110.00 1 2 56 3858.54 5.18 143.50 250.24 56.16 2 7 14 3258.5 .70 137.28

DIFFERENTIAL CORRECTIONS

TDE -.9923 TRA-2.0803 TC3 -.1415 BAU .0896
 RDE -.3635 RRA .1053 RC3 -.0929 FAU .02359
 FDE 1.1452 FRA 1.7482 FC3 -.5157 BSP 7372
 BOE 1.0568 BRA 2.0830 BC3 .1692 FSP -517

MID-COURSE EXECUTION ACCURACY

SGT 2274.0 SGR 366.5 SG3 184.5
 RRT .1212 RRF -.1090 RTF -.9182
 SGB 2303.3 R23 .0053 R13 -.9182
 SG1 2274.4 SG2 363.7 THA 1.15

ORBIT DETERMINATION ACCURACY

ST 1098.0 SR 332.5 SS 995.4
 CRT .7653 CRS .8464 CST .9902
 LSA 1502.8 MSA 219.6 SSA 16.3
 EL1 1128.2 EL2 208.3 ALF 13.52

LAUNCH DATE DEC 6 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 298.006

RL 147.38 LAL -.00 LOL 73.94 VL 26.388 GAL 8.46 AZL 86.52 MCA 121.98 SMA 120.15 ECC .26816 INC 3.4817 V1 30.229
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.817 GAP -14.44 AZP 91.85 TAL 155.19 TAP 277.18 RCA 87.93 APO 152.37 V2 35.123
 RC 42.436 GL 15.12 GP -.65 ZAL 47.32 ZAP 3.31 ETS 12.84 ZAE 166.85 ETE 238.53 ZAC 106.91 ETC 166.83 CLP -3.24

PLANETOCENTRIC CONIC

C3 36.906 VHL 6.075 DLA 25.02 RAL 20.65 RAD 6568.4 VEL 12.581 PTH 2.28 VHP 9.409 DPA 1.63 RAP 13.16 ECC 1.6074
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 40 3292.63 -24.68 117.16 262.08 75.67 4 39 33 2692.6 -26.41 108.92
 90.00 23 41 36 4083.45 -3.72 165.47 253.75 61.91 24 49 39 3483.5 -7.45 158.78
 100.00 5 28 54 2956.59 -27.24 93.12 262.77 77.19 6 18 10 2356.6 -28.73 84.64
 100.00 0 43 59 3894.72 -1.41 150.33 252.47 60.14 1 48 54 3294.7 -5.38 143.79
 110.00 7 20 31 2607.35 -33.02 67.91 264.08 80.63 8 3 59 2007.3 -33.97 58.80
 110.00 1 8 51 3816.74 3.59 141.31 249.36 55.98 2 12 27 3216.7 -.90 135.10

DIFFERENTIAL CORRECTIONS

TDE -1.0010 TRA-2.0520 TC3 -.1167 BAU .0746
 RDE -.3379 RRA .0926 RC3 -.0962 FAU .02511
 FDE 1.2223 FRA 1.8271 FC3 -.5889 BSP 7668
 BOE 1.0565 BRA 2.0541 BC3 .1513 FSP -571

MID-COURSE EXECUTION ACCURACY

SGT 2339.4 SGR 352.8 SG3 201.8
 RRT .1351 RRF -.1218 RTF -.9238
 SGB 2365.9 R23 .0059 R13 -.9237
 SG1 2339.9 SG2 349.5 THA 1.19

ORBIT DETERMINATION ACCURACY

ST 1141.0 SR 320.0 SS 1045.8
 CRT .7733 CRS .8521 CST .9905
 LSA 1566.0 MSA 212.4 SSA 16.1
 EL1 1168.3 EL2 198.1 ALF 12.60

LAUNCH DATE DEC 6 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 304.797

RL 147.38 LAL -.00 LOL 73.94 VL 26.527 GAL 8.10 AZL 86.51 MCA 125.21 SMA 120.95 ECC .25819 INC 3.4935 V1 30.229
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.905 GAP -13.65 AZP 92.02 TAL 155.04 TAP 280.24 RCA 89.72 APO 152.18 V2 35.111
 RC 42.394 GL 15.82 GP -.71 ZAL 47.41 ZAP 4.86 ETS 10.00 ZAE 168.32 ETE 250.22 ZAC 108.53 ETC 166.82 CLP -4.81

PLANETOCENTRIC CONIC

C3 34.467 VHL 5.871 DLA 25.69 RAL 20.44 RAD 6568.4 VEL 12.484 PTH 2.26 VHP 8.964 DPA 2.26 RAP 14.70 ECC 1.5672
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 31 0 3319.24 -24.22 118.98 260.58 74.87 4 26 19 2719.2 -26.07 110.79
 90.00 23 53 37 4022.30 -5.67 162.04 253.07 62.21 25 0 40 3422.3 -9.34 155.29
 100.00 5 17 58 2974.40 -26.97 94.38 261.35 76.59 6 7 32 2374.4 -28.54 85.93
 100.00 0 53 17 3842.37 -3.19 147.46 251.71 60.26 1 57 19 3242.4 -7.12 140.88
 110.00 7 12 56 2614.65 -32.94 68.46 262.76 80.31 7 56 31 2014.7 -33.93 59.36
 110.00 1 14 47 3774.89 1.99 139.12 248.48 55.87 2 17 42 3174.9 -2.50 132.92

DIFFERENTIAL CORRECTIONS

TDE -1.0123 TRA-2.0240 TC3 -.0911 BAU .0621
 RDE -.3131 RRA .0808 RC3 -.0992 FAU .02676
 FDE 1.3095 FRA 1.9143 FC3 -.6720 BSP 7896
 BOE 1.0596 BRA 2.0256 BC3 .1347 FSP -630

MID-COURSE EXECUTION ACCURACY

SGT 2406.8 SGR 338.5 SG3 221.2
 RRT .1505 RRF -.1353 RTF -.9288
 SGB 2430.4 R23 .0072 R13 -.9288
 SG1 2407.3 SG2 334.6 THA 1.24

ORBIT DETERMINATION ACCURACY

ST 1186.8 SR 306.7 SS 1100.9
 CRT .7819 CRS .8581 CST .9908
 LSA 1634.7 MSA 204.9 SSA 15.9
 EL1 1211.4 EL2 187.3 ALF 11.71

LAUNCH DATE DEC 6 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 26.655 GAL 7.75 AZL 86.49 MCA 128.42 SMA 121.70 ECC .24882 INC 3.5062 V1 30.229
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.985 GAP -12.90 AZP 92.18 TAL 154.92 TAP 283.34 RCA 91.42 APO 151.99 V2 35.099
 RC 42.534 GL 16.52 GP -0.78 ZAL 47.55 ZAP 6.47 ETS 8.62 ZAE 169.22 ETE 264.17 ZAC 110.10 ETC 166.80 CLP -6.42

PLANETOCENTRIC CONIC

C3 32.257 VHL 5.679 CLA 26.36 RAL 20.19 RAD 6568.3 VEL 12.395 PTH 2.24 VHP 8.534 DPA 2.85 RAP 16.19 ECC 1.5309
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 15 26 3351.67 -23.63 121.17 259.00 73.93 4 11 18 2751.7 -25.61 113.06
 90.00 0 11 6 3956.44 -7.74 158.31 252.47 62.68 1 17 2 3356.4 -11.34 151.48
 100.00 5 6 2 2995.10 -26.63 95.82 259.90 75.90 5 55 57 2395.1 -28.31 87.42
 100.00 1 3 10 3788.25 -5.01 144.47 250.98 60.49 2 6 19 3188.3 -8.90 137.85
 110.00 7 4 56 2623.11 -32.84 69.10 261.43 79.94 7 48 39 2023.1 -33.88 60.02
 110.00 1 20 47 3733.01 .39 136.94 247.62 55.82 2 23 0 3133.0 -4.10 130.73

DIFFERENTIAL CORRECTIONS

TDE-1.0241 TRA-1.9940 TC3 -.0623 BAU .0514
 RDE -.2892 RRA .0699 RC3 -.1017 FAU .02859
 FDE 1.4075 FRA 2.0096 FC3 -.7674 BSP 8115
 BOE 1.0642 BRA 1.9952 BC3 .1193 FSP -695

MID-COURSE EXECUTION ACCURACY

SGT 2472.4 SGR 323.5 SG3 242.8
 RRT .1660 RRF -.1489 RTF -.9335
 SGB 2493.5 R23 .0088 R13 -.9335
 SG1 2473.0 SG2 318.9 TMA 1.27

ORBIT DETERMINATION ACCURACY

ST 1233.3 SR 292.7 SS 1160.5
 CRT .7909 CRS .8641 CST .9912
 LSA 1707.2 MSA 197.2 SSA 15.7
 EL1 1255.3 EL2 176.0 ALF 10.85

LAUNCH DATE DEC 6 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 26.773 GAL 7.43 AZL 86.48 MCA 131.64 SMA 122.42 ECC .24005 INC 3.5201 V1 30.229
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.059 GAP -12.16 AZP 92.34 TAL 154.83 TAP 286.48 RCA 93.03 APO 151.80 V2 35.086
 RC 42.853 GL 17.24 GP -.87 ZAL 47.73 ZAP 8.13 ETS 7.85 ZAE 169.45 ETE 279.10 ZAC 111.62 ETC 166.78 CLP -8.09

PLANETOCENTRIC CONIC

C3 30.255 VHL 5.500 DLA 27.03 RAL 19.89 RAD 6568.2 VEL 12.314 PTH 2.22 VHP 8.118 DPA 3.41 RAP 17.65 ECC 1.4979
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 57 0 3393.13 -22.82 123.94 257.33 72.77 3 53 33 2793.1 -24.97 115.92
 90.00 0 27 9 3882.79 -10.02 154.10 251.97 63.38 1 31 52 3282.8 -13.51 147.16
 100.00 4 52 55 3019.46 -26.22 97.51 258.40 75.10 5 43 14 2419.5 -28.01 89.17
 100.00 1 13 55 3731.70 -6.89 141.33 250.30 60.84 2 16 7 3131.7 -10.73 134.64
 110.00 6 56 28 2632.85 -32.73 69.84 260.08 79.52 7 40 21 2032.9 -33.82 60.78
 110.00 1 26 51 3691.07 -1.21 134.75 246.79 55.84 2 28 23 3091.1 -5.69 128.52

DIFFERENTIAL CORRECTIONS

TDE-1.0362 TRA-1.9619 TC3 -.0304 BAU .0437
 RDE -.2659 RRA .0602 RC3 -.1037 FAU .03066
 FDE 1.5176 FRA 2.1141 FC3 -.8772 BSP 8319
 BOE 1.0698 BRA 1.9628 BC3 .1081 FSP -767

MID-COURSE EXECUTION ACCURACY

SGT 2535.6 SGR 307.7 SG3 266.9
 RRT .1812 RRF -.1618 RTF -.9378
 SGB 2554.2 R23 .0108 R13 -.9378
 SG1 2536.2 SG2 302.5 TMA 1.28

ORBIT DETERMINATION ACCURACY

ST 1280.1 SR 277.8 SS 1224.9
 CRT .7998 CRS .8700 CST .9915
 LSA 1783.3 MSA 189.6 SSA 15.4
 EL1 1299.6 EL2 164.2 ALF 10.01

LAUNCH DATE DEC 6 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 26.883 GAL 7.12 AZL 86.46 MCA 134.86 SMA 123.09 ECC .23185 INC 3.5355 V1 30.229
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.126 GAP -11.45 AZP 92.50 TAL 154.78 TAP 289.64 RCA 94.55 APO 151.62 V2 35.073
 RC 43.347 GL 17.96 GP -.97 ZAL 47.96 ZAP 9.86 ETS 7.41 ZAE 169.04 ETE 293.09 ZAC 113.09 ETC 166.76 CLP -9.81

PLANETOCENTRIC CONIC

C3 28.447 VHL 5.334 DLA 27.69 RAL 19.55 RAD 6568.1 VEL 12.240 PTH 2.20 VHP 7.717 DPA 3.93 RAP 19.05 ECC 1.4682
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 33 7 3451.98 -21.58 127.80 255.45 71.21 3 30 39 2852.0 -23.95 119.93
 90.00 0 48 18 3793.09 -12.70 148.88 251.68 64.48 1 51 31 3193.1 -16.04 141.79
 100.00 4 38 12 3048.73 -25.69 99.53 256.85 74.16 5 29 1 2448.7 -27.61 91.26
 100.00 1 25 54 3671.57 -8.87 137.97 249.68 61.34 2 27 5 3071.6 -12.63 131.19
 110.00 6 47 31 2644.05 -32.58 70.68 258.73 79.04 7 31 35 2044.1 -33.75 61.64
 110.00 1 33 5 3649.02 -2.82 132.55 245.98 55.92 2 33 54 3049.0 -7.27 126.30

DIFFERENTIAL CORRECTIONS

TDE-1.0450 TRA-1.9243 TC3 .0083 BAU .0401
 RDE -.2431 RRA .0516 RC3 -.1052 FAU .03303
 FDE 1.6401 FRA 2.2274 FC3-1.0051 BSP 8583
 BOE 1.0730 BRA 1.9250 BC3 .1055 FSP -852

MID-COURSE EXECUTION ACCURACY

SGT 2590.4 SGR 291.1 SG3 293.7
 RRT .1938 RRF -.1726 RTF -.9421
 SGB 2606.7 R23 .0124 R13 -.9421
 SG1 2591.0 SG2 285.5 TMA 1.26

ORBIT DETERMINATION ACCURACY

ST 1323.2 SR 261.9 SS 1293.3
 CRT .8082 CRS .8757 CST .9919
 LSA 1859.7 MSA 182.4 SSA 14.9
 EL1 1340.2 EL2 152.3 ALF 9.21

LAUNCH DATE DEC 6 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 26.985 GAL 6.84 AZL 86.45 MCA 138.07 SMA 123.71 ECC .22420 INC 3.5527 V1 30.229
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.187 GAP -10.76 AZP 92.64 TAL 154.77 TAP 292.84 RCA 95.98 APO 151.45 V2 35.060
 RC 44.011 GL 18.70 GP -1.08 ZAL 48.23 ZAP 11.65 ETS 7.17 ZAE 168.15 ETE 304.80 ZAC 114.49 ETC 166.75 CLP -11.60

PLANETOCENTRIC CONIC

C3 26.817 VHL 5.178 DLA 28.34 RAL 19.16 RAD 6568.1 VEL 12.173 PTH 2.18 VHP 7.330 DPA 4.40 RAP 20.40 ECC 1.4413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.76 1 28 50 3641.40 -17.86 140.17 252.49 67.62 2 29 31 3041.4 -20.74 132.68
 91.24 1 49 32 3574.28 -17.85 135.25 252.49 67.61 2 49 6 2974.3 -20.73 127.76
 100.00 4 21 13 3085.19 -24.99 102.01 255.23 73.04 5 12 39 2485.2 -27.07 93.83
 100.00 1 39 49 3605.72 -11.00 134.24 249.17 62.03 2 39 55 3005.7 -14.66 127.35
 110.00 6 38 3 2656.91 -32.41 71.65 257.37 78.50 7 22 20 2056.9 -33.66 62.63
 110.00 1 39 30 3606.77 -4.43 130.34 245.19 56.07 2 39 36 3006.8 -8.85 124.05

DIFFERENTIAL CORRECTIONS

TDE-1.0567 TRA-1.8876 TC3 .0458 BAU .0415
 RDE -.2209 RRA .0442 RC3 -.1063 FAU .03560
 FDE 1.7808 FRA 2.3546 FC3-1.1494 BSP 8760
 BOE 1.0795 BRA 1.8882 BC3 .1157 FSP -944

MID-COURSE EXECUTION ACCURACY

SGT 2645.8 SGR 273.7 SG3 324.0
 RRT .2054 RRF -.1814 RTF -.9459
 SGB 2659.9 R23 .0152 R13 -.9459
 SG1 2646.4 SG2 267.8 TMA 1.23

ORBIT DETERMINATION ACCURACY

ST 1368.8 SR 245.0 SS 1368.9
 CRT .8167 CRS .8812 CST .9923
 LSA 1943.4 MSA 175.2 SSA 14.4
 EL1 1383.5 EL2 139.9 ALF 8.40

LAUNCH DATE DEC 6 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.078 GAL 6.57 AZL 86.43 HCA 141.28 SMA 124.30 ECC .21708 INC 3.5721 V1 30.229
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.243 GAP -10.10 AZP 92.79 TAL 154.78 TAP 296.06 RCA 97.31 APO 151.28 V2 35.047
 RC 44.838 GL 19.44 GP -1.22 ZAL 48.53 ZAP 13.52 ETS 7.07 ZAE 166.98 ETE 313.93 ZAC 115.82 ETC 166.74 CLP -13.47

PLANETOCENTRIC CONIC

C3 25.350 VHL 5.035 CLA 28.99 RAL 18.74 RAD 6568.0 VEL 12.113 PTH 2.17 VHP 6.957 DPA 4.81 RAP 21.69 ECC 1.4172
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.50 0 43 43 3767.91 -18.62 149.78 251.32 67.37 1 46 31 3167.9 -21.52 142.26
 96.50 2 31 17 3419.93 -18.60 124.26 251.32 67.35 3 28 17 2819.9 -21.51 116.74
 100.00 4 0 22 3133.94 -23.98 105.28 253.48 71.60 4 52 36 2533.9 -26.27 97.23
 100.00 1 57 19 3529.14 -13.41 129.82 248.82 63.03 2 56 8 2929.1 -16.92 122.79
 110.00 6 27 59 2671.69 -32.21 72.75 256.02 77.87 7 12 31 2071.7 -33.54 63.77
 110.00 1 46 11 3564.15 -6.04 128.10 244.45 56.29 2 45 35 2964.2 -10.43 121.76

DIFFERENTIAL CORRECTIONS

TDE-1.0646 TRA-1.8450 TC3 .0903 BAU .0474
 RDE -.1988 RRA .0382 RC3 -.1068 FAU .03861
 FDE 1.9380 FRA 2.4924 FC3-1.3185 BSP 8991
 BOE 1.0830 BRA 1.8454 BC3 .1399 FSP -1051

MID-COURSE EXECUTION ACCURACY

SGT 2690.3 SGR 255.4 SG3 357.7
 RRT .2112 RRF -.1845 RTF -.9495
 SGB 2702.4 R23 .0182 R13 -.9495
 SG1 2690.9 SG2 249.6 TMA 1.16

ORBIT DETERMINATION ACCURACY

ST 1409.4 SR 226.8 SS 1449.1
 CRT .8241 CRS .8860 CST .9926
 LSA 2027.1 MSA 168.5 SSA 13.8
 EL1 1421.8 EL2 127.3 ALF 7.61

LAUNCH DATE DEC 6 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.164 GAL 6.31 AZL 86.41 HCA 144.49 SMA 124.84 ECC .21047 INC 3.5944 V1 30.229
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.293 GAP -9.45 AZP 92.93 TAL 154.81 TAP 299.30 RCA 98.57 APO 151.12 V2 35.033
 RC 45.818 GL 20.20 GP -1.39 ZAL 48.87 ZAP 15.48 ETS 7.07 ZAE 165.71 ETE 320.80 ZAC 117.08 ETC 166.74 CLP -15.42

PLANETOCENTRIC CONIC

C3 24.035 VHL 4.903 CLA 29.64 RAL 18.28 RAD 6568.0 VEL 12.059 PTH 2.16 VHP 6.598 DPA 5.16 RAP 22.91 ECC 1.3956
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.85 0 20 57 3822.06 -19.36 154.11 250.17 67.11 1 24 39 3222.1 -22.29 146.56
 99.15 2 50 24 3339.59 -19.35 118.65 250.17 67.10 3 46 4 2739.6 -22.28 111.11
 100.00 3 29 33 3214.39 -22.15 110.56 251.36 69.40 4 23 8 2614.4 -24.75 102.73
 100.00 2 24 29 3422.49 -16.60 123.52 248.88 64.78 3 21 31 2822.5 -19.87 116.24
 110.00 6 17 15 2688.75 -31.96 74.02 254.67 77.16 7 2 4 2088.8 -33.39 65.08
 110.00 1 53 16 3520.89 -7.67 125.81 243.76 56.59 2 51 57 2920.9 -12.01 119.40

DIFFERENTIAL CORRECTIONS

TDE-1.0710 TRA-1.7997 TC3 .1374 BAU .0560
 RDE -.1767 RRA .0337 RC3 -.1071 FAU .04199
 FDE 2.1169 FRA 2.6456 FC3-1.5124 BSP 9213
 BOE 1.0855 BRA 1.8000 BC3 .1742 FSP -1172

MID-COURSE EXECUTION ACCURACY

SGT 2727.8 SGR 236.0 SG3 395.7
 RRT .2090 RRF -.1793 RTF -.9529
 SGB 2738.0 R23 .0218 R13 -.9529
 SG1 2728.3 SG2 230.8 TMA 1.04

ORBIT DETERMINATION ACCURACY

ST 1447.0 SR 206.9 SS 1536.2
 CRT .8300 CRS .8897 CST .9929
 LSA 2114.2 MSA 162.5 SSA 13.0
 EL1 1457.2 EL2 114.6 ALF 6.81

LAUNCH DATE DEC 6 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.243 GAL 6.08 AZL 86.38 HCA 147.69 SMA 125.35 ECC .20436 INC 3.6205 V1 30.229
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.338 GAP -8.82 AZP 93.06 TAL 154.87 TAP 302.57 RCA 99.73 APO 150.97 V2 35.020
 RC 46.944 GL 20.96 GP -1.60 ZAL 49.24 ZAP 17.54 ETS 7.16 ZAE 164.46 ETE 325.90 ZAC 118.25 ETC 166.78 CLP -17.47

PLANETOCENTRIC CONIC

C3 22.862 VHL 4.781 CLA 30.29 RAL 17.79 RAD 6567.9 VEL 12.010 PTH 2.14 VHP 6.253 DPA 5.43 RAP 24.06 ECC 1.3763
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.77 0 3 10 3860.30 -20.09 157.28 249.05 66.84 1 7 30 3260.3 -23.05 149.71
 101.23 3 4 15 3276.91 -20.08 114.32 249.04 66.83 3 58 52 2676.9 -23.04 106.75
 78.77 0 3 10 3860.30 -20.09 157.28 249.05 66.84 1 7 30 3260.3 -23.05 149.71
 101.23 3 4 15 3276.91 -20.08 114.32 249.04 66.83 3 58 52 2676.9 -23.04 106.75
 110.00 6 5 40 2708.66 -31.65 75.49 253.31 76.35 6 50 49 2108.7 -33.20 66.60
 110.00 2 0 56 3476.55 -9.33 123.44 243.12 56.96 2 58 52 2876.5 -13.61 116.96

DIFFERENTIAL CORRECTIONS

TDE-1.0762 TRA-1.7516 TC3 .1846 BAU .0653
 RDE -.1541 RRA .0310 RC3 -.1074 FAU .04580
 FDE 2.3208 FRA 2.8151 FC3-1.7342 BSP 9401
 BOE 1.0872 BRA 1.7518 BC3 .2136 FSP -1310

MID-COURSE EXECUTION ACCURACY

SGT 2757.3 SGR 215.7 SG3 438.4
 RRT .1941 RRF -.1600 RTF -.9560
 SGB 2765.7 R23 .0271 R13 -.9560
 SG1 2757.6 SG2 211.6 TMA .87

ORBIT DETERMINATION ACCURACY

ST 1481.5 SR 185.2 SS 1630.7
 CRT .8338 CRS .8917 CST .9932
 LSA 2205.4 MSA 156.9 SSA 12.2
 EL1 1489.6 EL2 101.7 ALF 5.98

LAUNCH DATE DEC 6 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.315 GAL 5.86 AZL 86.35 HCA 150.90 SMA 125.82 ECC .19871 INC 3.6518 V1 30.229
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.378 GAP -8.21 AZP 93.19 TAL 154.96 TAP 305.85 RCA 100.82 APO 150.82 V2 35.007
 RC 48.205 GL 21.75 GP -1.86 ZAL 49.64 ZAP 19.72 ETS 7.35 ZAE 163.31 ETE 329.60 ZAC 119.32 ETC 166.84 CLP -19.63

PLANETOCENTRIC CONIC

C3 21.821 VHL 4.671 CLA 30.94 RAL 17.26 RAD 6567.9 VEL 11.967 PTH 2.13 VHP 5.922 DPA 5.60 RAP 25.12 ECC 1.3591
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.97 23 43 59 3890.67 -20.80 159.89 247.96 66.56 24 48 50 3290.7 -23.80 152.28
 103.03 3 15 18 3223.92 -20.79 110.68 247.95 66.55 4 9 2 2623.9 -23.79 103.08
 76.97 23 43 59 3890.67 -20.80 159.89 247.96 66.56 24 48 50 3290.7 -23.80 152.28
 103.03 3 15 18 3223.92 -20.79 110.68 247.95 66.55 4 9 2 2623.9 -23.79 103.08
 110.00 5 52 58 2732.26 -31.25 77.21 251.96 75.39 6 38 31 2132.3 -32.94 68.40
 110.00 2 9 25 3430.33 -11.03 120.95 242.56 57.44 3 6 35 2830.3 -15.25 114.38

DIFFERENTIAL CORRECTIONS

TDE-1.0592 TRA-1.6797 TC3 .2694 BAU .0846
 RDE -.1302 RRA .0310 RC3 -.1072 FAU .05105
 FDE 2.5324 FRA 2.9805 FC3-2.0254 BSP 10060
 BOE 1.0672 BRA 1.6800 BC3 .2900 FSP -1509

MID-COURSE EXECUTION ACCURACY

SGT 2742.6 SGR 193.7 SG3 484.1
 RRT .1428 RRF -.1085 RTF -.9599
 SGB 2749.4 R23 .0295 R13 -.9599
 SG1 2742.7 SG2 191.7 TMA .58

ORBIT DETERMINATION ACCURACY

ST 1485.7 SR 160.3 SS 1718.8
 CRT .8310 CRS .8893 CST .9932
 LSA 2272.4 MSA 153.0 SSA 10.9
 EL1 1491.6 EL2 88.8 ALF 5.14

LAUNCH DATE DEC 6 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 365.396

RL 147.38 LAL -0.00 LOL 73.94 VL 27.382 GAL 5.66 AZL 86.31 HCA 154.10 SMA 126.25 ECC .19353 INC 3.6899 V1 30.229
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.414 GAP -7.62 AZP 93.32 TAL 155.05 TAP 309.14 RCA 101.82 APO 150.69 V2 34.994
 RC 49.590 GL 22.55 GP -2.20 ZAL 50.06 ZAP 22.02 ETS 7.62 ZAE 162.32 ETE 332.18 ZAC 120.29 ETC 166.97 CLP -21.92

PLANETOCENTRIC CONIC

C3 20.912 VHL 4.573 DLA 31.61 RAL 16.71 RAD 6567.8 VEL 11.929 PTH 2.12 VHP 5.605 DPA 5.65 RAP 26.10 ECC 1.3442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.32 23 30 15 3916.70 -21.51 162.18 246.92 66.26 24 35 32 3316.7 -24.53 154.55
 104.68 3 24 37 3177.41 -21.50 107.50 246.91 66.24 4 17 35 2577.4 -24.52 99.87
 75.32 23 30 15 3916.70 -21.51 162.18 246.92 66.26 24 35 32 3316.7 -24.53 154.55
 104.68 3 24 37 3177.41 -21.50 107.50 246.91 66.24 4 17 35 2577.4 -24.52 99.87
 110.00 5 38 45 2761.13 -30.74 79.31 250.60 74.25 6 24 46 2161.1 -32.59 70.58
 110.00 2 19 15 3380.98 -12.82 118.25 242.12 58.04 3 15 36 2781.0 -16.96 111.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1209 TRA-1.6861 TC3 .1983 BAU .0636
 RDE -.1065 RRA .0318 RC3 -.1117 FAU .05273
 FDE 2.8727 FRA 3.2628 FC3-2.1829 BSP 8705
 BDE 1.1260 BRA 1.6864 BC3 .2276 FSP -1544

SGT 2856.4 SGR 174.4 SG3 546.3
 RRT .1061 RRF -.0470 RTF -.9592
 SGB 2861.7 R23 .0555 R13 -.9592
 SG1 2856.5 SG2 173.4 THA .37

ST 1589.4 SR 134.2 SS 1877.6
 CRT .8295 CRS .8838 CST .9942
 LSA 2459.3 MSA 146.4 SSA 10.5
 EL1 1593.3 EL2 74.8 ALF 4.01

LAUNCH DATE DEC 6 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 372.045

RL 147.38 LAL -0.00 LOL 73.94 VL 27.442 GAL 5.47 AZL 86.26 HCA 157.29 SMA 126.65 ECC .18877 INC 3.7378 V1 30.229
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.446 GAP -7.04 AZP 93.45 TAL 155.16 TAP 312.45 RCA 102.74 APO 150.56 V2 34.980
 RC 51.091 GL 23.39 GP -2.64 ZAL 50.52 ZAP 24.48 ETS 8.02 ZAE 161.92 ETE 333.77 ZAC 121.15 ETC 167.17 CLP -24.34

PLANETOCENTRIC CONIC

C3 20.120 VHL 4.486 DLA 32.31 RAL 16.11 RAD 6567.8 VEL 11.895 PTH 2.11 VHP 5.302 DPA 5.55 RAP 26.99 ECC 1.3311
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.76 23 17 16 3940.60 -22.21 164.33 245.91 65.91 24 22 56 3340.6 -25.27 156.68
 106.24 3 32 50 3135.05 -22.20 104.61 245.91 65.90 4 25 5 2535.0 -25.26 96.95
 73.76 23 17 16 3940.60 -22.21 164.33 245.91 65.91 24 22 56 3340.6 -25.27 156.68
 106.24 3 32 50 3135.05 -22.20 104.61 245.91 65.90 4 25 5 2535.0 -25.26 96.95
 110.00 5 21 57 2798.02 -30.03 81.94 249.19 72.84 6 8 35 2198.0 -32.08 73.33
 110.00 2 31 15 3325.63 -14.80 115.17 241.83 58.83 3 26 41 2725.6 -18.82 108.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1040 TRA-1.6117 TC3 .2667 BAU .0781
 RDE -.0781 RRA .0380 RC3 -.1147 FAU .05877
 FDE 3.1692 FRA 3.4783 FC3-2.5287 BSP 9146
 BDE 1.1067 BRA 1.6122 BC3 .2904 FSP -1771

SGT 2824.7 SGR 154.4 SG3 605.8
 RRT -.0542 RRF .1210 RTF -.9621
 SGB 2829.0 R23 -.0688 R13 .9621
 SG1 2824.8 SG2 154.2 THA 179.83

ST 1588.3 SR 101.3 SS 1990.3
 CRT .7963 CRS .8556 CST .9943
 LSA 2544.3 MSA 144.0 SSA 9.1
 EL1 1590.3 EL2 61.2 ALF 2.91

LAUNCH DATE DEC 6 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 378.675

RL 147.38 LAL -0.00 LOL 73.94 VL 27.497 GAL 5.29 AZL 86.20 HCA 160.49 SMA 127.02 ECC .18443 INC 3.8006 V1 30.229
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.474 GAP -6.48 AZP 93.58 TAL 155.27 TAP 315.76 RCA 103.59 APO 150.44 V2 34.967
 RC 52.697 GL 24.30 GP -3.23 ZAL 51.02 ZAP 27.11 ETS 8.57 ZAE 160.91 ETE 334.37 ZAC 121.89 ETC 167.48 CLP -26.93

PLANETOCENTRIC CONIC

C3 19.454 VHL 4.411 DLA 33.05 RAL 15.47 RAD 6567.8 VEL 11.867 PTH 2.11 VHP 5.013 DPA 5.25 RAP 27.78 ECC 1.3202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.19 23 4 32 3964.07 -22.92 166.48 244.97 65.50 24 10 36 3364.1 -26.02 158.79
 107.81 3 40 24 3095.60 -22.91 101.93 244.96 65.49 4 32 0 2495.6 -26.01 94.25
 72.19 23 4 32 3964.07 -22.92 166.48 244.97 65.50 24 10 36 3364.1 -26.02 158.79
 107.81 3 40 24 3095.60 -22.91 101.93 244.96 65.49 4 32 0 2495.6 -26.01 94.25
 110.00 5 0 25 2849.79 -28.93 85.58 247.64 70.95 5 47 55 2249.8 -31.25 77.14
 110.00 2 47 38 3257.87 -17.15 111.33 241.80 59.97 3 41 56 2657.9 -21.01 104.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0971 TRA-1.5467 TC3 .3028 BAU .0849
 RDE -.0453 RRA .0489 RC3 -.1220 FAU .06470
 FDE 3.5327 FRA 3.7339 FC3-2.8793 BSP 9207
 BDE 1.0980 BRA 1.5475 BC3 .3265 FSP -1990

SGT 2801.5 SGR 144.1 SG3 674.8
 RRT -.3133 RRF .3924 RTF -.9639
 SGB 2805.2 R23 -.0944 R13 .9640
 SG1 2801.9 SG2 136.9 THA 179.07

ST 1596.3 SR 63.2 SS 2125.5
 CRT .6693 CRS .7431 CST .9944
 LSA 2655.1 MSA 142.2 SSA 7.7
 EL1 1596.9 EL2 46.9 ALF 1.52

LAUNCH DATE DEC 6 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 385.285

RL 147.38 LAL -0.00 LOL 73.94 VL 27.546 GAL 5.14 AZL 86.11 HCA 163.68 SMA 127.35 ECC .18048 INC 3.8869 V1 30.229
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.498 GAP -5.94 AZP 93.73 TAL 155.39 TAP 319.08 RCA 104.36 APO 150.33 V2 34.954
 RC 54.398 GL 25.31 GP -4.07 ZAL 51.57 ZAP 29.94 ETS 9.36 ZAE 160.48 ETE 333.85 ZAC 122.52 ETC 167.98 CLP -29.69

PLANETOCENTRIC CONIC

C3 18.925 VHL 4.350 DLA 33.89 RAL 14.75 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 4.741 DPA 4.65 RAP 28.51 ECC 1.3115
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.55 22 51 28 3988.89 -23.65 168.77 244.08 64.99 23 57 57 3388.9 -26.81 161.06
 109.45 3 47 44 3057.74 -23.63 99.37 244.08 64.97 4 38 42 2457.7 -26.80 91.66
 70.55 22 51 28 3988.89 -23.65 168.77 244.08 64.99 23 57 57 3388.9 -26.81 161.06
 109.45 3 47 44 3057.74 -23.63 99.37 244.08 64.97 4 38 42 2457.7 -26.80 91.66
 110.00 4 25 5 2943.75 -26.67 91.95 245.55 67.79 5 14 8 2343.8 -29.44 83.86
 110.00 3 17 14 3150.88 -20.68 105.04 242.49 62.15 4 9 45 2550.9 -24.23 97.70

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0901 TRA-1.4787 TC3 .3235 BAU .0887
 RDE -.0042 RRA .0674 RC3 -.1355 FAU .07108
 FDE 3.9640 FRA 4.0138 FC3-3.2517 BSP 9129
 BDE 1.0901 BRA 1.4803 BC3 .3508 FSP -2228

SGT 2764.9 SGR 159.2 SG3 752.3
 RRT -.6268 RRF .7105 RTF -.9650
 SGB 2769.5 R23 -.1340 R13 .9652
 SG1 2766.8 SG2 124.0 THA 177.93

ST 1599.0 SR 32.7 SS 2277.4
 CRT -.2788 CRS -.1783 CST .9944
 LSA 2779.2 MSA 141.5 SSA 6.3
 EL1 1599.0 EL2 31.4 ALF 179.67

LAUNCH DATE DEC 6 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 5 1969

MELIOCENTRIC CONIC
 RL 147.38 LAL -.00 LOL 73.94 VL 27.591 GAL 5.00 AZL 85.99 MCA 166.87 SMA 127.65 ECC .17692 INC 4.0132 V1 30.229
 RP 108.45 LAP .91 LOP 240.85 VP 37.520 GAP -5.41 AZP 93.91 TAL 155.51 TAP 322.39 RCA 105.07 APO 150.23 V2 34.942
 RC 56.186 GL 26.52 GP -5.33 ZAL 52.22 ZAP 33.02 ETS 10.53 ZAE 160.13 ETE 331.79 ZAC 123.05 ETC 168.76 CLP -32.64

PLANETOCENTRIC CONIC
 C3 18.562 VHL 4.308 DLA 34.90 RAL 13.90 RAD 6567.8 VEL 11.830 PTH 2.10 VHP 4.486 DPA 3.58 RAP 29.22 ECC 1.3055
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.69 22 37 3 4017.88 -24.44 171.45 243.27 64.27 23 44 1 3417.9 -27.69 163.73
 111.31 3 55 24 3019.64 -24.42 96.79 243.27 64.26 4 45 44 2419.6 -27.68 89.07
 68.69 22 37 3 4017.88 -24.44 171.45 243.27 64.27 23 44 1 3417.9 -27.69 163.73
 111.31 3 55 24 3019.64 -24.42 96.79 243.27 64.26 4 45 44 2419.6 -27.68 89.07
 68.69 22 37 3 4017.88 -24.44 171.45 243.27 64.27 23 44 1 3417.9 -27.69 163.73
 111.31 3 55 24 3019.64 -24.42 96.79 243.27 64.26 4 45 44 2419.6 -27.68 89.07

DIFFERENTIAL CORRECTIONS
 TOE-1.0785 TRA-1.4016 TC3 .3373 BAU .0926
 RDE .0522 RRA .0983 RC3 -.1598 FAU .07803
 FDE 4.4783 FRA 4.3051 FC3-3.6392 BSP 9046
 BOE 1.0798 BRA 1.4050 BC3 .3732 FSP -2492

MID-COURSE EXECUTION ACCURACY
 SGT 2703.0 SGR 221.8 SG3 837.8
 RRT -.8372 RRF .9105 RTF -.9659
 SGB 2712.1 R23 -.1832 R13 .9665
 SG1 2709.4 SG2 121.0 THA 176.06

ORBIT DETERMINATION ACCURACY
 ST 1588.1 SR 84.5 SS 2447.0
 CRT -.9864 CRS -.9646 CST .9944
 LSA 2915.0 MSA 142.4 SSA 4.8
 EL1 1590.3 EL2 13.8 ALF 177.00

LAUNCH DATE DEC 6 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 7 1969

MELIOCENTRIC CONIC
 RL 147.38 LAL -.00 LOL 73.94 VL 27.631 GAL 4.87 AZL 85.78 MCA 170.06 SMA 127.92 ECC .17373 INC 4.2189 V1 30.229
 RP 108.49 LAP .73 LOP 244.03 VP 37.537 GAP -4.89 AZP 94.16 TAL 155.63 TAP 325.69 RCA 105.70 APO 150.15 V2 34.929
 RC 58.051 GL 28.13 GP -7.41 ZAL 53.05 ZAP 36.46 ETS 12.44 ZAE 159.58 ETE 327.36 ZAC 123.54 ETC 170.11 CLP -35.80

PLANETOCENTRIC CONIC
 C3 18.451 VHL 4.295 DLA 36.26 RAL 12.80 RAD 6567.7 VEL 11.825 PTH 2.09 VHP 4.254 DPA 1.67 RAP 30.05 ECC 1.3037
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.34 22 19 30 4055.88 -25.36 174.97 242.56 63.17 23 27 6 3455.9 -28.75 167.25
 113.66 4 4 10 2978.83 -25.35 94.05 242.55 63.16 4 53 48 2378.8 -28.74 86.33
 66.34 22 19 30 4055.88 -25.36 174.97 242.56 63.17 23 27 6 3455.9 -28.75 167.25
 113.66 4 4 10 2978.83 -25.35 94.05 242.55 63.16 4 53 48 2378.8 -28.74 86.33
 66.34 22 19 30 4055.88 -25.36 174.97 242.56 63.17 23 27 6 3455.9 -28.75 167.25
 113.66 4 4 10 2978.83 -25.35 94.05 242.55 63.16 4 53 48 2378.8 -28.74 86.33

DIFFERENTIAL CORRECTIONS
 TOE-1.0708 TRA-1.3178 TC3 .3296 BAU .0957
 RDE .1409 RRA .1521 RC3 -.2046 FAU .08497
 FDE 5.1146 FRA 4.5863 FC3-3.9871 BSP 8858
 BOE 1.0800 BRA 1.3266 BC3 .3880 FSP -2768

MID-COURSE EXECUTION ACCURACY
 SGT 2621.5 SGR 359.9 SG3 929.9
 RRT -.9187 RRF .9793 RTF -.9659
 SGB 2646.1 R23 -.2262 R13 .9675
 SG1 2642.3 SG2 141.1 THA 172.79

ORBIT DETERMINATION ACCURACY
 ST 1570.9 SR 202.6 SS 2643.8
 CRT -.9987 CRS -.9981 CST .9942
 LSA 3078.5 MSA 145.5 SSA 3.4
 EL1 1583.9 EL2 10.4 ALF 172.66

LAUNCH DATE DEC 6 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 9 1969

MELIOCENTRIC CONIC
 RL 147.38 LAL -.00 LOL 73.94 VL 27.667 GAL 4.76 AZL 85.38 MCA 173.25 SMA 128.17 ECC .17088 INC 4.6163 V1 30.229
 RP 108.53 LAP .54 LOP 247.21 VP 37.553 GAP -4.39 AZP 94.58 TAL 155.74 TAP 328.98 RCA 106.27 APO 150.07 V2 34.917
 RC 59.985 GL 30.72 GP -11.44 ZAL 54.37 ZAP 40.55 ETS 16.00 ZAE 157.86 ETE 318.84 ZAC 124.12 ETC 172.78 CLP -39.17

PLANETOCENTRIC CONIC
 C3 18.871 VHL 4.344 DLA 38.45 RAL 11.04 RAD 6567.8 VEL 11.843 PTH 2.10 VHP 4.066 DPA -2.12 RAP 31.45 ECC 1.3106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.82 21 54 22 4114.27 -26.59 180.45 241.97 61.14 23 2 56 3514.3 -30.22 172.76
 117.18 4 15 17 2931.01 -26.58 90.88 241.97 61.13 5 4 8 2331.0 -30.21 83.19
 62.82 21 54 22 4114.27 -26.59 180.45 241.97 61.14 23 2 56 3514.3 -30.22 172.76
 117.18 4 15 17 2931.01 -26.58 90.88 241.97 61.13 5 4 8 2331.0 -30.21 83.19
 62.82 21 54 22 4114.27 -26.59 180.45 241.97 61.14 23 2 56 3514.3 -30.22 172.76
 117.18 4 15 17 2931.01 -26.58 90.88 241.97 61.13 5 4 8 2331.0 -30.21 83.19

DIFFERENTIAL CORRECTIONS
 TOE-1.0795 TRA-1.2207 TC3 .3011 BAU .1058
 RDE .3137 RRA .2550 RC3 -.2919 FAU .09090
 FDE 5.9367 FRA 4.7531 FC3-4.1703 BSP 8718
 BOE 1.1242 BRA 1.2471 BC3 .4194 FSP -3038

MID-COURSE EXECUTION ACCURACY
 SGT 2514.5 SGR 648.0 SG3 1016.9
 RRT -.9441 RRF .9960 RTF -.9649
 SGB 2596.7 R23 -.2390 R13 .9698
 SG1 2588.4 SG2 207.5 THA 166.24

ORBIT DETERMINATION ACCURACY
 ST 1551.7 SR 433.4 SS 2877.2
 CRT -.9942 CRS -1.0000 CST .9938
 LSA 3294.0 MSA 152.4 SSA 2.0
 EL1 1610.5 EL2 44.9 ALF 164.47

LAUNCH DATE DEC 6 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 11 1969

MELIOCENTRIC CONIC
 RL 147.38 LAL -.00 LOL 73.94 VL 27.699 GAL 4.66 AZL 84.28 MCA 176.43 SMA 128.38 ECC .16837 INC 5.7167 V1 30.229
 RP 108.57 LAP .36 LOP 250.39 VP 37.565 GAP -3.90 AZP 95.71 TAL 155.83 TAP 332.26 RCA 106.77 APO 150.00 V2 34.906
 RC 61.981 GL 36.52 GP -22.09 ZAL 57.45 ZAP 47.00 ETS 24.70 ZAE 150.39 ETE 303.86 ZAC 124.98 ETC 180.19 CLP -42.61

PLANETOCENTRIC CONIC
 C3 21.354 VHL 4.621 DLA 43.32 RAL 6.80 RAD 6567.9 VEL 11.947 PTH 2.13 VHP 4.052 DPA -12.02 RAP 35.42 ECC 1.3514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.74 21 5 59 4231.35 -28.48 191.80 241.68 55.87 22 16 31 3631.4 -32.74 184.34
 124.26 4 29 46 2872.81 -28.47 87.20 241.67 55.86 5 17 39 2272.8 -32.73 79.75
 55.74 21 5 59 4231.35 -28.48 191.80 241.68 55.87 22 16 31 3631.4 -32.74 184.34
 124.26 4 29 46 2872.81 -28.47 87.20 241.67 55.86 5 17 39 2272.8 -32.73 79.75
 55.74 21 5 59 4231.35 -28.48 191.80 241.68 55.87 22 16 31 3631.4 -32.74 184.34
 124.26 4 29 46 2872.81 -28.47 87.20 241.67 55.86 5 17 39 2272.8 -32.73 79.75

DIFFERENTIAL CORRECTIONS
 TOE-1.1980 TRA-1.1025 TC3 .2275 BAU .1486
 RDE .8375 RRA .4903 RC3 -.4681 FAU .08716
 FDE 7.0525 FRA 4.3150 FC3-3.5339 BSP 9133
 BOE 1.4618 BRA 1.2066 BC3 .5205 FSP -3062

MID-COURSE EXECUTION ACCURACY
 SGT 2404.3 SGR 1401.3 SG3 1026.7
 RRT -.9508 RRF .9992 RTF -.9623
 SGB 2782.8 R23 -.1962 R13 .9805
 SG1 2756.9 SG2 378.6 THA 150.39

ORBIT DETERMINATION ACCURACY
 ST 1588.8 SR 1068.3 SS 3157.8
 CRT -.9921 CRS -.9999 CST .9933
 LSA 3689.1 MSA 167.6 SSA .8
 EL1 1911.3 EL2 111.6 ALF 146.16

LAUNCH DATE DEC 6 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 417.985

RL 147.38 LAL -.00 LOL 73.94 VL 27.726 GAL 4.58 AZL 65.95 MCA 179.59 SMA 128.58 ECC .16622 INC24.0453 V1 30.229
 RP 108.60 LAP .17 LOP 253.57 VP 37.575 GAP -3.43 AZP 114.05 TAL 155.88 TAP 335.47 RCA 107.21 APO 149.95 V2 34.894
 RC 64.032 GL 63.74 GP -79.48 ZAL 78.75 ZAP 79.52 ETS 103.75 ZAE 92.72 ETE 343.71 ZAC 114.28 ETC 270.91 CLP -4.75

PLANETOCENTRIC CONIC

C3 157.799 VHL 12.562 OLA 58.61 RAL 326.75 RAD 6570.7 VEL 16.707 PTH 2.90 VHP 13.462 DPA -55.96 RAP 89.04 ECC 3.5970
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.27 17 23 46 4842.10 -10.60 233.47 230.20 32.00 18 44 28 4242.1 -17.35 229.46
 143.73 2 52 30 3190.00 -10.59 98.77 230.18 32.00 3 45 40 2590.0 -17.34 94.76
 36.27 17 23 46 4842.10 -10.60 233.47 230.20 32.00 18 44 28 4242.1 -17.35 229.46
 143.73 2 52 30 3190.00 -10.59 98.77 230.18 32.00 3 45 40 2590.0 -17.34 94.76
 36.27 17 23 46 4842.10 -10.60 233.47 230.20 32.00 18 44 28 4242.1 -17.35 229.46
 143.73 2 52 30 3190.00 -10.59 98.77 230.18 32.00 3 45 40 2590.0 -17.34 94.76

DIFFERENTIAL CORRECTIONS

TO-10.3447 TRA -.3729 TC3 -.2468 BAU .5260
 RDE-1.1049 RRA -.6410 RC3 -.0351 FAU -.01650
 FDE 3.7069 FRA .0912 FC3 .0905 BSP 6530
 BOE10.4035 BRA .7416 BC3 .2493 FSP -202

MID-COURSE EXECUTION ACCURACY

SGT 4770.1 SGR 759.5 SG3 147.6
 RRT .7221 RRF -.7069 RTF -.9998
 SGB 4830.2 R23 .0342 R13 -.9994
 SG1 4801.9 SG2 522.0 THA 6.64

ORBIT DETERMINATION ACCURACY

ST 4719.4 SR 531.4 SS 1966.7
 CRT .9548 CRS .9529 CST 1.0000
 LSA 5137.9 MSA 158.1 SSA .7
 EL1 4746.6 EL2 157.0 ALF 6.14

LAUNCH DATE DEC 6 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 424.502

RL 147.38 LAL -.00 LOL 73.94 VL 27.751 GAL 4.50 AZL 89.58 MCA 182.80 SMA 128.75 ECC .16428 INC .4317 V1 30.229
 RP 108.64 LAP -.02 LOP 256.74 VP 37.583 GAP -2.95 AZP 90.42 TAL 155.97 TAP 338.77 RCA 107.60 APO 149.90 V2 34.883
 RC 66.131 GL 3.32 GP 30.08 ZAL 46.80 ZAP 56.74 ETS 340.12 ZAE 150.78 ETE 68.38 ZAC 107.74 ETC 153.53 CLP -50.67

PLANETOCENTRIC CONIC

C3 12.447 VHL 3.528 OLA 13.58 RAL 24.05 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 3.884 DPA 34.85 RAP 11.20 ECC 1.2048
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 26 2543.00 -25.95 63.39 241.97 101.76 6 53 49 1943.0 -24.06 55.23
 90.00 21 41 59 4315.30 3.75 178.42 237.68 61.91 22 53 54 3715.3 -.03 171.78
 100.00 7 39 54 2257.68 -27.02 42.14 241.70 103.30 8 17 32 1657.7 -24.92 33.97
 100.00 22 56 11 4075.86 4.71 160.28 237.15 60.45 24 4 7 3475.9 .74 153.75
 110.00 9 4 9 1994.04 -29.83 21.24 240.82 107.52 9 37 23 1394.0 -27.15 13.08
 110.00 23 48 25 3912.26 7.20 146.34 235.61 56.49 24 53 38 3312.3 2.75 140.08

DIFFERENTIAL CORRECTIONS

TDE -.4312 TRA -1.0009 TC3 .2629 BAU .2202
 RDE -.4865 RRA -1.1569 RC3 1.2969 FAU .10567
 FDE 2.8300 FRA 6.4252 FC3 -7.3495 BSP 9695
 BOE .6501 BRA 1.5298 BC3 1.3232 FSP -3445

MID-COURSE EXECUTION ACCURACY

SGT 1822.4 SGR 2279.9 SG3 1103.9
 RRT .9520 RRF -.9999 RTF -.9505
 SGB 2918.7 R23 -.1244 R13 -.9921
 SG1 2885.2 SG2 440.9 THA 51.67

ORBIT DETERMINATION ACCURACY

ST 861.4 SR 980.5 SS 1883.7
 CRT .9997 CRS .9998 CST .9997
 LSA 2291.5 MSA 20.6 SSA 15.8
 EL1 1305.0 EL2 15.8 ALF 48.70

LAUNCH DATE DEC 6 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 430.959

RL 147.38 LAL -.00 LOL 73.94 VL 27.772 GAL 4.44 AZL 88.00 MCA 185.98 SMA 128.89 ECC .16269 INC 2.0045 V1 30.229
 RP 108.67 LAP -.21 LOP 259.91 VP 37.589 GAP -2.50 AZP 91.99 TAL 156.00 TAP 341.97 RCA 107.92 APO 149.86 V2 34.873
 RC 68.274 GL 15.47 GP 15.78 ZAL 48.85 ZAP 57.14 ETS 351.62 ZAE 164.34 ETE 58.36 ZAC 112.53 ETC 158.95 CLP -55.68

PLANETOCENTRIC CONIC

C3 13.187 VHL 3.631 OLA 24.76 RAL 18.98 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 3.359 DPA 21.32 RAP 16.80 ECC 1.2170
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 42 37 3030.39 -27.81 98.64 241.95 84.41 4 33 7 2430.4 -28.29 90.00
 90.00 23 30 23 3852.69 -10.93 152.36 236.86 63.72 24 34 36 3252.7 -14.38 145.37
 100.00 5 25 57 2697.19 -29.73 74.29 242.11 86.77 6 10 55 2097.2 -29.86 65.49
 100.00 0 33 40 3661.12 -9.21 137.38 235.96 61.44 1 34 41 3061.1 -12.96 130.59
 110.00 7 16 25 2351.59 -34.12 48.09 242.16 92.27 7 55 37 1751.6 -33.43 38.91
 110.00 0 59 41 3579.48 -5.46 128.91 233.67 56.20 1 59 21 2979.5 -9.87 122.58

DIFFERENTIAL CORRECTIONS

TDE -.4296 TRA -.8133 TC3 .1084 BAU .1225
 RDE -.3799 RRA -.6148 RC3 .6865 FAU .13475
 FDE 5.2766 FRA 7.6790 FC3 -8.8469 BSP 7009
 BOE .5735 BRA 1.0195 BC3 .6950 FSP -4470

MID-COURSE EXECUTION ACCURACY

SGT 1569.3 SGR 1322.5 SG3 1467.9
 RRT .9421 RRF -.9991 RTF -.9379
 SGB 2052.3 R23 -.2093 R13 -.9770
 SG1 2023.2 SG2 344.1 THA 39.83

ORBIT DETERMINATION ACCURACY

ST 799.4 SR 679.9 SS 2681.6
 CRT .9975 CRS .9991 CST .9937
 LSA 2878.3 MSA 88.6 SSA 5.1
 EL1 1048.8 EL2 36.6 ALF 40.37

LAUNCH DATE DEC 6 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 437.396

RL 147.38 LAL -.00 LOL 73.94 VL 27.790 GAL 4.40 AZL 87.51 MCA 189.15 SMA 129.02 ECC .16138 INC 2.4897 V1 30.229
 RP 108.70 LAP -.40 LOP 263.08 VP 37.592 GAP -2.05 AZP 92.46 TAL 156.00 TAP 345.15 RCA 108.20 APO 149.84 V2 34.862
 RC 70.456 GL 19.09 GP 10.92 ZAL 49.92 ZAP 61.21 ETS 355.93 ZAE 169.67 ETE 58.04 ZAC 112.74 ETC 161.39 CLP -60.63

PLANETOCENTRIC CONIC

C3 13.554 VHL 3.682 OLA 28.04 RAL 17.27 RAD 6567.5 VEL 11.616 PTH 2.04 VHP 3.157 DPA 16.19 RAP 17.30 ECC 1.2231
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 6 24 3334.62 -23.95 120.02 240.48 74.42 3 1 58 2734.6 -25.86 111.87
 90.00 0 56 52 3560.40 -19.04 134.74 238.72 68.64 1 56 12 2960.4 -21.78 127.14
 100.00 4 21 9 2900.22 -28.03 89.12 241.54 79.16 5 9 29 2300.2 -29.24 80.52
 100.00 1 24 48 3470.04 -15.20 126.35 236.95 63.95 2 22 38 2870.0 -18.58 119.19
 110.00 6 34 13 2483.73 -33.99 58.40 242.44 86.18 7 15 36 1883.7 -34.15 49.15
 110.00 1 28 14 3459.29 -9.97 122.51 233.92 57.13 2 25 53 2859.3 -14.23 116.00

DIFFERENTIAL CORRECTIONS

TDE -.3389 TRA -.6455 TC3 -.0425 BAU .0894
 RDE -.2855 RRA -.4406 RC3 .4915 FAU .14956
 FDE 6.5341 FRA 8.3011 FC3 -9.5525 BSP 5583
 BOE .4431 BRA .7815 BC3 .4933 FSP -5044

MID-COURSE EXECUTION ACCURACY

SGT 1254.7 SGR 965.3 SG3 1655.4
 RRT .9140 RRF -.9967 RTF -.9068
 SGB 1583.1 R23 -.2714 R13 -.9590
 SG1 1551.1 SG2 316.8 THA 36.91

ORBIT DETERMINATION ACCURACY

ST 628.2 SR 501.8 SS 3022.1
 CRT .9955 CRS .9972 CST .9859
 LSA 3125.4 MSA 108.4 SSA 5.5
 EL1 803.2 EL2 37.0 ALF 38.59

LAUNCH DATE DEC 6 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 443.811

RL 147.38 LAL - .00 LOL 73.94 VL 27.805 GAL 4.37 AZL 87.27 MCA 192.33 SMA 129.12 ECC .16033 INC 2.7266 V1 30.229
 RP 108.73 LAP - .58 LOP 266.25 VP 37.594 GAP -1.61 AZP 92.66 TAL 155.97 TAP 348.30 RCA 108.42 APO 149.82 V2 34.853
 RC 72.672 GL 20.85 GP 8.49 ZAL 50.48 ZAP 66.10 ETS 358.11 ZAE 173.05 ETE 70.44 ZAC 111.70 ETC 162.83 CLP -65.81

PLANETOCENTRIC CONIC

C3 13.729 VHL 3.705 DLA 29.64 RAL 16.42 RAD 6567.5 VEL 11.624 PTH 2.04 VHP 3.020 DPA 13.16 RAP 16.48 ECC 1.2259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.85 0 13 31 3691.54 -22.59 145.79 239.44 70.29 1 15 2 3091.5 -25.08 137.89
 99.15 2 42 58 3209.08 -22.58 110.33 239.44 70.27 3 36 27 2609.1 -25.07 102.44
 100.00 3 22 7 3083.87 -25.01 101.92 240.32 73.08 4 13 31 2483.9 -27.09 93.74
 100.00 2 17 2 3291.99 -20.21 115.50 238.45 67.49 3 11 54 2692.0 -23.08 107.89
 110.00 6 9 49 2558.24 -33.51 64.16 242.40 82.80 6 52 27 1958.2 -34.14 54.97
 110.00 1 45 50 3390.38 -12.49 118.76 234.30 57.92 2 42 20 2790.4 -16.63 112.11

DIFFERENTIAL CORRECTIONS

TDE -.2067 TRA -.4691 TC3 -.2118 BAU .0835
 RDE -.2195 RRA -.3544 RC3 .4024 FAU .16184
 FDE 7.4151 FRA 8.8082 FC-10.2051 BSP 4323
 BDE .3015 BRA .5879 BC3 .4547 FSP -5543

MID-COURSE EXECUTION ACCURACY

SGT 907.4 SGR 775.6 SG3 1800.5
 RRT .8353 RRF -.9916 RTF -.8227
 SGB 1193.7 R23 -.3421 R13 -.9308
 SG1 1144.9 SG2 338.0 THA 39.66

ORBIT DETERMINATION ACCURACY

ST 406.0 SR 388.7 SS 3233.9
 CRT .9872 CRS .9929 CST .9619
 LSA 3280.3 MSA 118.7 SSA 6.3
 EL1 560.3 EL2 44.9 ALF 43.73

LAUNCH DATE DEC 6 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 450.204

RL 147.38 LAL - .00 LOL 73.94 VL 27.817 GAL 4.36 AZL 87.13 MCA 195.50 SMA 129.21 ECC .15955 INC 2.8680 V1 30.229
 RP 108.76 LAP - .77 LOP 269.42 VP 37.595 GAP -1.18 AZP 92.76 TAL 155.92 TAP 351.41 RCA 108.59 APO 149.82 V2 34.844
 RC 74.919 GL 21.91 GP 7.02 ZAL 50.80 ZAP 71.39 ETS 359.42 ZAE 174.63 ETE 102.46 ZAC 110.05 ETC 163.82 CLP -71.24

PLANETOCENTRIC CONIC

C3 13.837 VHL 3.720 DLA 30.61 RAL 15.95 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 2.918 DPA 10.89 RAP 15.03 ECC 1.2277
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.86 23 45 12 3764.93 -23.26 151.52 239.37 69.52 24 47 57 3164.9 -25.83 143.61
 102.14 3 3 34 3139.12 -23.25 105.39 239.36 69.51 3 55 54 2539.1 -25.83 97.48
 77.86 23 45 12 3764.93 -23.26 151.52 239.37 69.52 24 47 57 3164.9 -25.83 143.61
 102.14 3 3 34 3139.12 -23.25 105.39 239.36 69.51 3 55 54 2539.1 -25.83 97.48
 110.00 5 53 16 2608.73 -33.01 68.01 242.32 80.57 6 36 45 2008.7 -33.96 58.90
 110.00 1 58 36 3343.31 -14.17 116.16 234.71 58.56 2 54 19 2743.3 -18.23 109.40

DIFFERENTIAL CORRECTIONS

TDE -.0472 TRA -.2815 TC3 -.4041 BAU .0991
 RDE -.1685 RRA -.3012 RC3 .3520 FAU .17259
 FDE 8.0807 FRA 9.2254 FC-10.7981 BSP 3067
 BDE .1750 BRA .4123 BC3 .5359 FSP -5991

MID-COURSE EXECUTION ACCURACY

SGT 591.2 SGR 653.1 SG3 1916.5
 RRT .5484 RRF -.9826 RTF -.5192
 SGB 880.9 R23 -.4222 R13 -.8875
 SG1 776.7 SG2 415.7 THA 50.15

ORBIT DETERMINATION ACCURACY

ST 168.0 SR 305.9 SS 3377.5
 CRT .8415 CRS .9841 CST .7337
 LSA 3393.1 MSA 125.9 SSA 7.0
 EL1 339.2 EL2 81.8 ALF 63.54

LAUNCH DATE DEC 6 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 456.576

RL 147.38 LAL - .00 LOL 73.94 VL 27.826 GAL 4.36 AZL 87.04 MCA 198.67 SMA 129.27 ECC .15902 INC 2.9618 V1 30.229
 RP 108.78 LAP - .95 LOP 272.59 VP 37.594 GAP - .75 AZP 92.81 TAL 155.82 TAP 354.49 RCA 108.72 APO 149.83 V2 34.835
 RC 77.194 GL 22.59 GP 6.01 ZAL 50.96 ZAP 76.93 ETS .27 ZAE 173.41 ETE 138.36 ZAC 108.04 ETC 164.56 CLP -76.86

PLANETOCENTRIC CONIC

C3 13.929 VHL 3.732 DLA 31.26 RAL 15.70 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 2.845 DPA 8.96 RAP 13.21 ECC 1.2292
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.16 23 32 2 3804.79 -23.70 154.70 239.41 68.99 24 35 27 3204.8 -26.34 146.78
 103.84 3 14 44 3102.16 -23.69 102.79 239.41 68.98 4 6 26 2502.2 -26.33 94.87
 76.16 23 32 2 3804.79 -23.70 154.70 239.41 68.99 24 35 27 3204.8 -26.34 146.78
 103.84 3 14 44 3102.16 -23.69 102.79 239.41 68.98 4 6 26 2502.2 -26.33 94.87
 110.00 5 41 9 2646.58 -32.55 70.87 242.30 78.94 6 25 16 2046.6 -33.73 61.84
 110.00 2 8 43 3308.37 -15.40 114.20 235.14 59.10 3 3 51 2708.4 -19.39 107.35

DIFFERENTIAL CORRECTIONS

TDE .1327 TRA -.0831 TC3 -.6188 BAU .1295
 RDE -.1261 RRA -.2642 RC3 .3175 FAU .18050
 FDE 8.5796 FRA 9.5532 FC-11.2186 BSP 1957
 BDE .1830 BRA .2770 BC3 .6955 FSP -6341

MID-COURSE EXECUTION ACCURACY

SGT 526.4 SGR 564.6 SG3 2004.0
 RRT -.2626 RRF -.9679 RTF .3267
 SGB 771.9 R23 .4216 R13 -.8745
 SG1 615.4 SG2 466.0 THA 127.53

ORBIT DETERMINATION ACCURACY

ST 209.0 SR 240.3 SS 3476.1
 CRT -.6597 CRS .9659 CST -.8307
 LSA 3488.2 MSA 131.7 SSA 7.7
 EL1 290.9 EL2 129.8 ALF 129.00

LAUNCH DATE DEC 6 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 462.926

RL 147.38 LAL - .00 LOL 73.94 VL 27.834 GAL 4.37 AZL 86.97 MCA 201.84 SMA 129.32 ECC .15872 INC 3.0292 V1 30.229
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.592 GAP -.34 AZP 92.81 TAL 155.69 TAP 357.53 RCA 108.80 APO 149.85 V2 34.827
 RC 79.493 GL 23.05 GP 5.25 ZAL 51.00 ZAP 82.63 ETS .85 ZAE 170.36 ETE 157.11 ZAC 105.81 ETC 165.12 CLP -82.60

PLANETOCENTRIC CONIC

C3 14.029 VHL 3.745 DLA 31.73 RAL 15.60 RAD 6567.6 VEL 11.637 PTH 2.04 VHP 2.799 DPA 7.21 RAP 11.17 ECC 1.2309
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.04 23 23 52 3830.80 -24.00 156.79 239.57 68.59 24 27 43 3230.8 -26.69 148.87
 104.96 3 22 8 3079.28 -23.99 101.19 239.57 68.58 4 13 28 2479.3 -26.68 93.27
 75.04 23 23 52 3830.80 -24.00 156.79 239.57 68.59 24 27 43 3230.8 -26.69 148.87
 104.96 3 22 8 3079.28 -23.99 101.19 239.57 68.58 4 13 28 2479.3 -26.68 93.27
 110.00 5 31 57 2676.69 -32.14 73.12 242.37 77.66 6 16 34 2076.7 -33.50 64.16
 110.00 2 17 9 3281.39 -16.34 112.67 235.61 59.55 3 11 51 2681.4 -20.26 105.74

DIFFERENTIAL CORRECTIONS

TDE .3268 TRA .1238 TC3 -.8494 BAU .1685
 RDE -.0886 RRA -.2357 RC3 .2918 FAU .18565
 FDE 8.8951 FRA 9.7539 FC-11.4568 BSP 1732
 BDE .3386 BRA .2663 BC3 .8982 FSP -6593

MID-COURSE EXECUTION ACCURACY

SGT 839.3 SGR 495.9 SG3 2056.6
 RRT -.7238 RRF -.9453 RTF .8094
 SGB 974.9 R23 .3807 R13 -.8841
 SG1 924.0 SG2 310.8 THA 153.63

ORBIT DETERMINATION ACCURACY

ST 504.8 SR 186.0 SS 3528.3
 CRT -.8135 CRS .9268 CST -.9720
 LSA 3566.4 MSA 136.7 SSA 8.3
 EL1 527.9 EL2 103.4 ALF 162.63

LAUNCH DATE DEC 6 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.838 GAL 4.39 AZL 86.92 HCA 205.01 SMA 129.36 ECC .15867 INC 3.0801 V1 30.229
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.589 GAP .07 AZP 92.79 TAL 155.53 TAP .53 RCA 108.83 APO 149.88 V2 34.820
 RC 81.813 GL 23.36 GP 4.65 ZAL 50.95 ZAP 88.38 ETS 1.26 ZAE 166.64 ETE 165.80 ZAC 103.48 ETC 165.55 CLP -88.37

PLANETOCENTRIC CONIC

C3 14.149 VHL 3.761 DLA 32.08 RAL 15.63 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 2.779 DPA 5.59 RAP 9.04 ECC 1.2329
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.25 23 18 35 3849.54 -24.20 158.31 239.84 68.27 24 22 45 3249.5 -26.94 150.39
 105.75 3 27 39 3064.30 -24.19 100.14 239.83 68.26 4 18 43 2464.3 -26.93 92.22
 74.25 23 18 35 3849.54 -24.20 158.31 239.84 68.27 24 22 45 3249.5 -26.94 150.39
 105.75 3 27 39 3064.30 -24.19 100.14 239.83 68.26 4 18 43 2464.3 -26.93 92.22
 110.00 5 24 55 2701.51 -31.76 74.96 242.54 76.64 6 9 56 2101.5 -33.27 66.06
 110.00 2 24 25 3260.33 -17.06 111.47 236.14 59.92 3 18 46 2660.3 -20.93 104.48

DIFFERENTIAL CORRECTIONS

TDE .5296 TRA .3362 TC3-1.0888 BAU .2122 SGT 1298.9 SGR 441.7 SG3 2074.0 ST 827.2 SR 142.2 SS 3544.4
 RDE -.0549 RRA -.2130 RC3 .2705 FAU .18690 RRT -.8116 RRF -.9123 RTF .9251 CRT -.7517 CRS .8395 CST -.9892
 FDE 9.0433 FRA 9.8319 FC-11.4362 BSP 2781 SGB 1371.9 R23 .2272 R13 -.9384 LSA 3639.7 MSA 141.2 SSA 8.8
 BDE .5325 BRA .3980 BC3 1.1219 FSP -6700 SG1 1349.2 SG2 248.4 THA 164.02 EL1 834.2 EL2 93.0 ALF 172.54

LAUNCH DATE DEC 6 1968

FLIGHT TIME 176.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.841 GAL 4.43 AZL 86.88 HCA 208.17 SMA 129.38 ECC .15884 INC 3.1203 V1 30.229
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.585 GAP .48 AZP 92.75 TAL 155.32 TAP 3.49 RCA 108.83 APO 149.93 V2 34.813
 RC 84.153 GL 23.55 GP 4.16 ZAL 50.82 ZAP 94.10 ETS 1.55 ZAE 162.71 ETE 170.32 ZAC 101.15 ETC 165.86 CLP -94.11

PLANETOCENTRIC CONIC

C3 14.297 VHL 3.781 DLA 32.35 RAL 15.76 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 2.784 DPA 4.08 RAP 6.91 ECC 1.2353
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.67 23 15 16 3863.82 -24.34 159.46 240.21 68.00 24 19 40 3263.8 -27.10 151.54
 106.33 3 32 1 3054.61 -24.32 99.45 240.21 67.99 4 22 56 2454.6 -27.09 91.54
 73.67 23 15 16 3863.82 -24.34 159.46 240.21 68.00 24 19 40 3263.8 -27.10 151.54
 106.33 3 32 1 3054.61 -24.32 99.45 240.21 67.99 4 22 56 2454.6 -27.09 91.54
 110.00 5 19 37 2722.36 -31.42 76.49 242.83 75.79 6 5 0 2122.4 -33.05 67.65
 110.00 2 30 47 3244.07 -17.62 110.53 236.73 60.22 3 24 51 2644.1 -21.44 103.49

DIFFERENTIAL CORRECTIONS

TDE .7346 TRA .5498 TC3-1.3275 BAU .2583 SGT 1794.3 SGR 398.6 SG3 2051.2 ST 1152.2 SR 110.4 SS 3512.3
 RDE -.0236 RRA -.1937 RC3 .2537 FAU .18586 RRT -.8043 RRF -.8661 RTF .9613 CRT -.5572 CRS .6428 CST -.9942
 FDE 8.9904 FRA 9.7461 FC-11.2545 BSP 4289 SGB 1838.0 R23 .1341 R13 -.9647 LSA 3695.3 MSA 145.4 SSA 9.3
 BDE .7350 BRA .5829 BC3 1.3515 FSP -6735 SG1 1823.1 SG2 233.1 THA 169.70 EL1 1153.8 EL2 91.5 ALF 176.93

LAUNCH DATE DEC 6 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.842 GAL 4.48 AZL 86.85 HCA 211.34 SMA 129.38 ECC .15924 INC 3.1529 V1 30.229
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.580 GAP .88 AZP 92.69 TAL 155.08 TAP 6.42 RCA 108.78 APO 149.98 V2 34.807
 RC 86.508 GL 23.65 GP 3.74 ZAL 50.61 ZAP 99.69 ETS 1.75 ZAE 158.78 ETE 172.92 ZAC 98.91 ETC 166.07 CLP -99.71

PLANETOCENTRIC CONIC

C3 14.478 VHL 3.805 DLA 32.55 RAL 15.99 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.814 DPA 2.68 RAP 4.87 ECC 1.2383
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.24 23 13 23 3875.30 -24.41 160.37 240.70 67.77 24 17 58 3275.3 -27.20 152.45
 106.76 3 35 43 3048.70 -24.39 99.03 240.69 67.75 4 26 32 2448.7 -27.19 91.12
 73.24 23 13 23 3875.30 -24.41 160.37 240.70 67.77 24 17 58 3275.3 -27.20 152.45
 106.76 3 35 43 3048.70 -24.39 99.03 240.69 67.75 4 26 32 2448.7 -27.19 91.12
 110.00 5 15 50 2740.00 -31.12 77.78 243.25 75.08 6 1 30 2140.0 -32.85 68.98
 110.00 2 36 22 3232.00 -18.02 109.83 237.38 60.45 3 30 14 2632.0 -21.82 102.76

DIFFERENTIAL CORRECTIONS

TDE .9367 TRA .7617 TC3-1.5582 BAU .3051 SGT 2290.6 SGR 366.0 SG3 1995.9 ST 1468.8 SR 95.7 SS 3448.8
 RDE .0051 RRA -.1777 RC3 .2394 FAU .18154 RRT -.7599 RRF -.8057 RTF .9759 CRT -.2015 CRS .2854 CST -.9962
 FDE 8.7854 FRA 9.5391 FC-10.8558 BSP 5899 SGB 2319.6 R23 .0863 R13 -.9771 LSA 3746.8 MSA 149.2 SSA 9.6
 BDE .9367 BRA .7821 BC3 1.5765 FSP -6643 SG1 2307.6 SG2 236.2 THA 173.00 EL1 1468.9 EL2 93.7 ALF 179.24

LAUNCH DATE DEC 6 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.841 GAL 4.55 AZL 86.82 HCA 214.50 SMA 129.37 ECC .15986 INC 3.1801 V1 30.229
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.574 GAP 1.28 AZP 92.62 TAL 154.79 TAP 9.29 RCA 108.69 APO 150.06 V2 34.802
 RC 88.877 GL 23.68 GP 3.37 ZAL 50.34 ZAP 105.09 ETS 1.90 ZAE 154.96 ETE 174.52 ZAC 96.85 ETC 166.22 CLP -105.11

PLANETOCENTRIC CONIC

C3 14.696 VHL 3.833 DLA 32.70 RAL 16.30 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 2.867 DPA 1.42 RAP 2.99 ECC 1.2419
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.93 23 12 35 3884.95 -24.43 161.11 241.29 67.56 24 17 20 3284.9 -27.25 153.21
 107.07 3 39 1 3045.69 -24.41 98.81 241.28 67.54 4 29 46 2445.7 -27.24 90.91
 72.93 23 12 35 3884.95 -24.43 161.11 241.29 67.56 24 17 20 3284.9 -27.25 153.21
 107.07 3 39 1 3045.69 -24.41 98.81 241.28 67.54 4 29 46 2445.7 -27.24 90.91
 110.00 5 13 25 2754.90 -30.85 78.86 243.78 74.50 5 59 20 2154.9 -32.67 70.11
 110.00 2 41 17 3223.74 -18.30 109.35 238.09 60.61 3 35 1 2623.7 -22.07 102.25

DIFFERENTIAL CORRECTIONS

TDE 1.1312 TRA .9689 TC3-1.7742 BAU .3514 SGT 2769.5 SGR 343.0 SG3 1913.2 ST 1768.3 SR 99.5 SS 3357.5
 RDE .0315 RRA -.1643 RC3 .2272 FAU .17464 RRT -.6941 RRF -.7321 RTF .9830 CRT .1939 CRS -.1205 CST -.9972
 FDE 8.4514 FRA 9.2269 FC-10.2880 BSP 7505 SGB 2790.7 R23 .0615 R13 -.9835 LSA 3792.9 MSA 152.9 SSA 9.8
 BDE 1.1317 BRA .9827 BC3 1.7886 FSP -6464 SG1 2779.8 SG2 246.0 THA 175.05 EL1 1768.4 EL2 97.6 ALF .63

LAUNCH DATE DEC 6 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 494.352

RL 147.38 LAL -.00 LOL 73.94 VL 27.838 GAL 4.63 AZL 86.80 HCA 217.67 SMA 129.35 ECC .16070 INC 3.2033 V1 30.229
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.567 GAP 1.67 AZP 92.54 TAL 154.47 TAP 12.13 RCA 108.57 APO 150.14 V2 34.797
 RC 91.256 GL 23.64 GP 3.04 ZAL 50.01 ZAP 110.23 ETS 2.00 ZAE 151.33 ETE 175.56 ZAC 95.01 ETC 166.30 CLP-110.26

PLANETOCENTRIC CONIC

C3 14.953 VHL 3.867 DLA 32.80 RAL 16.69 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 2.940 DPA .31 RAP 1.31 ECC 1.2461
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.71 23 12 45 3893.17 -24.40 161.73 241.98 67.37 24 17 38 3293.2 -27.25 153.84
 107.29 3 41 59 3045.23 -24.38 98.76 241.98 67.35 4 32 44 2445.2 -27.24 90.87
 72.71 23 12 45 3893.17 -24.40 161.73 241.98 67.37 24 17 38 3293.2 -27.25 153.84
 107.29 3 41 59 3045.23 -24.38 98.76 241.98 67.35 4 32 44 2445.2 -27.24 90.87
 110.00 5 12 16 2767.34 -30.62 79.75 244.44 74.01 5 58 23 2167.3 -32.51 71.04
 110.00 2 45 34 3219.06 -18.46 109.08 238.88 60.70 3 39 13 2619.1 -22.22 101.96

DIFFERENTIAL CORRECTIONS

TDE 1.3154 TRA 1.1700 TC3-1.9697 BAU .3961
 RDE .0558 RRA -.1532 RC3 .2168 FAU .16562
 FDE 8.0277 FRA 8.8412 FC3-9.5887 BSP 9052
 BDE 1.3166 BRA 1.1800 BC3 1.9816 FSP -6195

MID-COURSE EXECUTION ACCURACY

SGT 3220.6 SGR 328.5 SG3 1811.0
 RRT -.6157 RRF -.6492 RTF .9869
 SGB 3237.3 R23 .0477 R13 -.9871
 SG1 3227.0 SG2 258.3 THA 176.38

ORBIT DETERMINATION ACCURACY

ST 2045.3 SR 115.9 SS 3246.9
 CRT .4672 CRS -.4072 CST -.9977
 LSA 3836.0 MSA 156.4 SSA 10.1
 EL1 2046.0 EL2 102.4 ALF 1.52

LAUNCH DATE DEC 6 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 500.572

RL 147.38 LAL -.00 LOL 73.94 VL 27.834 GAL 4.73 AZL 86.78 HCA 220.83 SMA 129.32 ECC .16175 INC 3.2233 V1 30.229
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.560 GAP 2.06 AZP 92.44 TAL 154.10 TAP 14.93 RCA 108.40 APO 150.24 V2 34.793
 RC 93.644 GL 23.54 GP 2.76 ZAL 49.61 ZAP 115.09 ETS 2.07 ZAE 147.93 ETE 176.26 ZAC 93.44 ETC 166.34 CLP-115.12

PLANETOCENTRIC CONIC

C3 15.255 VHL 3.906 DLA 32.87 RAL 17.16 RAD 6567.6 VEL 11.689 PTH 2.06 VHP 3.033 DPA -.65 RAP 359.89 ECC 1.2511
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.57 23 13 42 3900.49 -24.33 162.26 242.78 67.18 24 18 42 3300.5 -27.20 154.39
 107.43 3 44 46 3046.85 -24.32 98.86 242.77 67.17 4 35 33 2446.8 -27.19 90.98
 72.57 23 13 42 3900.49 -24.33 162.26 242.78 67.18 24 18 42 3300.5 -27.20 154.39
 107.43 3 44 46 3046.85 -24.32 98.86 242.77 67.17 4 35 33 2446.8 -27.19 90.98
 110.00 5 12 18 2777.55 -30.43 80.49 245.22 73.62 5 58 36 2177.6 -32.37 71.81
 110.00 2 49 16 3217.78 -18.50 109.00 239.72 60.73 3 42 53 2617.8 -22.25 101.88

DIFFERENTIAL CORRECTIONS

TDE 1.4873 TRA 1.3643 TC3-2.1409 BAU .4387
 RDE .0783 RRA -.1442 RC3 .2079 FAU .15530
 FDE 7.5462 FRA 8.4087 FC3-8.8138 BSP 10513
 BDE 1.4893 BRA 1.3719 BC3 2.1510 FSP -5875

MID-COURSE EXECUTION ACCURACY

SGT 3637.9 SGR 321.0 SG3 1696.7
 RRT -.5320 RRF -.5626 RTF .9891
 SGB 3652.1 R23 .0395 R13 -.9892
 SG1 3642.0 SG2 271.5 THA 177.30

ORBIT DETERMINATION ACCURACY

ST 2296.4 SR 137.6 SS 3122.6
 CRT .6214 CRS -.5719 CST -.9981
 LSA 3875.3 MSA 159.8 SSA 10.4
 EL1 2298.0 EL2 107.7 ALF 2.14

LAUNCH DATE DEC 6 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 506.770

RL 147.38 LAL -.00 LOL 73.94 VL 27.828 GAL 4.84 AZL 86.76 HCA 223.99 SMA 129.28 ECC .16302 INC 3.2409 V1 30.229
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.553 GAP 2.46 AZP 92.33 TAL 153.70 TAP 17.69 RCA 108.21 APO 150.36 V2 34.789
 RC 96.038 GL 23.38 GP 2.50 ZAL 49.16 ZAP 119.64 ETS 2.12 ZAE 144.80 ETE 176.73 ZAC 92.17 ETC 166.35 CLP-119.67

PLANETOCENTRIC CONIC

C3 15.602 VHL 3.950 DLA 32.91 RAL 17.70 RAD 6567.6 VEL 11.704 PTH 2.06 VHP 3.143 DPA -1.44 RAP 358.73 ECC 1.2568
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.49 23 15 21 3907.09 -24.22 162.72 243.68 67.01 24 20 28 3307.1 -27.12 154.86
 107.51 3 47 24 3050.41 -24.21 99.08 243.67 67.00 4 38 15 2450.4 -27.11 91.22
 72.49 23 15 21 3907.09 -24.22 162.72 243.68 67.01 24 20 28 3307.1 -27.12 154.86
 107.51 3 47 24 3050.41 -24.21 99.08 243.67 67.00 4 38 15 2450.4 -27.11 91.22
 110.00 5 13 28 2785.72 -30.27 81.07 246.13 73.31 5 59 54 2185.7 -32.26 72.42
 110.00 2 52 24 3219.77 -18.43 109.12 240.63 60.69 3 46 3 2619.8 -22.19 102.01

DIFFERENTIAL CORRECTIONS

TDE 1.6483 TRA 1.5539 TC3-2.2810 BAU .4776
 RDE .0992 RRA -.1370 RC3 .2000 FAU .14356
 FDE 7.0511 FRA 7.9654 FC3-7.9656 BSP 11835
 BDE 1.6513 BRA 1.5599 BC3 2.2897 FSP -5496

MID-COURSE EXECUTION ACCURACY

SGT 4021.3 SGR 318.9 SG3 1578.1
 RRT -.4493 RRF -.4773 RTF .9904
 SGB 4033.9 R23 .0337 R13 -.9904
 SG1 4023.9 SG2 284.8 THA 177.95

ORBIT DETERMINATION ACCURACY

ST 2523.5 SR 160.6 SS 2995.9
 CRT .7074 CRS -.6650 CST -.9983
 LSA 3917.0 MSA 162.9 SSA 10.7
 EL1 2526.1 EL2 113.4 ALF 2.58

LAUNCH DATE DEC 6 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 512.946

RL 147.38 LAL -.00 LOL 73.94 VL 27.820 GAL 4.96 AZL 86.74 HCA 227.15 SMA 129.23 ECC .16451 INC 3.2566 V1 30.229
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.545 GAP 2.85 AZP 92.22 TAL 153.26 TAP 20.41 RCA 107.97 APO 150.49 V2 34.787
 RC 98.436 GL 23.18 GP 2.28 ZAL 48.65 ZAP 123.88 ETS 2.17 ZAE 141.93 ETE 177.06 ZAC 91.18 ETC 166.35 CLP-123.91

PLANETOCENTRIC CONIC

C3 16.000 VHL 4.000 DLA 32.91 RAL 18.30 RAD 6567.6 VEL 11.721 PTH 2.07 VHP 3.270 DPA -2.09 RAP 357.84 ECC 1.2633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.48 23 17 40 3913.08 -24.07 163.11 244.68 66.85 24 22 53 3313.1 -26.99 155.27
 107.52 3 49 54 3055.83 -24.06 99.43 244.67 66.83 4 40 50 2455.8 -26.98 91.59
 72.48 23 17 40 3913.08 -24.07 163.11 244.68 66.85 24 22 53 3313.1 -26.99 155.27
 107.52 3 49 54 3055.83 -24.06 99.43 244.67 66.83 4 40 50 2455.8 -26.98 91.59
 110.00 5 15 41 2792.04 -30.15 81.52 247.17 73.07 6 2 13 2192.0 -32.17 72.89
 110.00 2 55 0 3224.87 -18.26 109.42 241.60 60.59 3 48 45 2624.9 -22.04 102.32

DIFFERENTIAL CORRECTIONS

TDE 1.7952 TRA 1.7369 TC3-2.3965 BAU .5143
 RDE .1190 RRA -.1312 RC3 .1930 FAU .13206
 FDE 6.5416 FRA 7.5134 FC3-7.1454 BSP 13070
 BDE 1.7991 BRA 1.7418 BC3 2.4043 FSP -5123

MID-COURSE EXECUTION ACCURACY

SGT 4367.0 SGR 320.9 SG3 1458.1
 RRT -.3716 RRF -.3977 RTF .9911
 SGB 4378.7 R23 .0298 R13 -.9912
 SG1 4368.6 SG2 297.8 THA 178.43

ORBIT DETERMINATION ACCURACY

ST 2721.3 SR 183.3 SS 2861.8
 CRT .7587 CRS -.7209 CST -.9984
 LSA 3949.8 MSA 166.2 SSA 11.0
 EL1 2724.9 EL2 119.3 ALF 2.93

LAUNCH DATE DEC 6 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.812 GAL 5.10 AZL 86.73 MCA 230.32 SMA 129.17 ECC .16623 INC 3.2708 V1 30.229
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.537 GAP 3.24 AZP 92.09 TAL 152.78 TAP 23.09 RCA 107.70 APO 150.64 V2 34.785
 RC 100.837 GL 22.93 GP 2.08 ZAL 48.09 ZAP 127.81 ETS 2.21 ZAE 139.33 ETE 177.30 ZAC 90.48 ETC 166.34 CLP-127.84

PLANETOCENTRIC CONIC

C3 16.453 VHL 4.056 DLA 32.89 RAL 18.97 RAD 6567.7 VEL 11.740 PTH 2.07 VHP 3.411 DPA -2.58 RAP 357.22 ECC 1.2708
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.52 23 20 36 3918.60 -23.89 163.45 245.77 66.69 24 25 54 3318.6 -26.83 155.63
 107.48 3 52 18 3063.02 -23.88 99.89 245.77 66.67 4 43 21 2463.0 -26.82 92.08
 72.52 23 20 36 3918.60 -23.89 163.45 245.77 66.69 24 25 54 3318.6 -26.83 155.63
 107.48 3 52 18 3063.02 -23.88 99.89 245.77 66.67 4 43 21 2463.0 -26.82 92.08
 110.00 5 18 53 2796.72 -30.05 81.85 248.32 72.89 6 5 29 2196.7 -32.10 73.24
 110.00 2 57 7 3232.90 -17.99 109.88 242.64 60.43 3 51 0 2632.9 -21.79 102.81

DIFFERENTIAL CORRECTIONS

TOE 1.9300 TRA 1.9153 TC3-2.4853 BAU .5482 SGT 4677.5 SGR 325.7 SG3 1341.5 ST 2893.2 SR 205.1 SS 2728.1
 RDE .1380 RRA -.1263 RC3 .1866 FAU .12076 RRT -.3010 RRF -.3251 RTF .9916 CRT .7911 CRS -.7564 CST -.9985
 FDE 6.0466 FRA 7.0728 FC3-6.3543 BSP 14204 SGB 4688.9 R23 .0266 R13 -.9916 LSA 3978.3 MSA 169.4 SSA 11.3
 BOE 1.9350 BRA 1.9195 BC3 2.4923 FSP -4754 SG1 4678.6 SG2 310.5 THA 178.79 EL1 2897.8 EL2 125.3 ALF 3.22

LAUNCH DATE DEC 6 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.802 GAL 5.25 AZL 86.72 MCA 233.48 SMA 129.10 ECC .16816 INC 3.2837 V1 30.229
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.528 GAP 3.63 AZP 91.96 TAL 152.26 TAP 25.74 RCA 107.39 APO 150.81 V2 34.784
 RC 103.240 GL 22.65 GP 1.91 ZAL 47.49 ZAP 131.45 ETS 2.25 ZAE 136.99 ETE 177.46 ZAC 90.06 ETC 166.33 CLP-131.48

PLANETOCENTRIC CONIC

C3 16.964 VHL 4.119 DLA 32.85 RAL 19.69 RAD 6567.7 VEL 11.762 PTH 2.08 VHP 3.565 DPA -2.94 RAP 356.85 ECC 1.2792
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.61 23 24 4 3923.82 -23.67 163.75 246.96 66.53 24 29 28 3323.8 -26.63 155.95
 107.39 3 54 36 3071.84 -23.66 100.47 246.95 66.51 4 45 48 2471.8 -26.62 92.68
 72.61 23 24 4 3923.82 -23.67 163.75 246.96 66.53 24 29 28 3323.8 -26.63 155.95
 107.39 3 54 36 3071.84 -23.66 100.47 246.95 66.51 4 45 48 2471.8 -26.62 92.68
 110.00 5 22 57 2799.98 -29.99 82.08 249.59 72.77 6 9 37 2200.0 -32.05 73.48
 110.00 2 58 49 3243.67 -17.63 110.51 243.73 60.23 3 52 52 2643.7 -21.45 103.47

DIFFERENTIAL CORRECTIONS

TOE 2.0542 TRA 2.0913 TC3-2.5477 BAU .5792 SGT 4956.1 SGR 332.2 SG3 1230.9 ST 3041.3 SR 225.8 SS 2597.7
 RDE .1563 RRA -.1223 RC3 .1802 FAU .10980 RRT -.2378 RRF -.2600 RTF .9917 CRT .8125 CRS -.7799 CST -.9985
 FDE 5.5770 FRA 6.6562 FC3-5.6037 BSP 15230 SGB 4967.2 R23 .0238 R13 -.9918 LSA 4002.3 MSA 172.6 SSA 11.5
 BOE 2.0602 BRA 2.0949 BC3 2.5541 FSP -4392 SG1 4956.7 SG2 322.6 THA 179.08 EL1 3046.8 EL2 131.4 ALF 3.46

LAUNCH DATE DEC 6 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.791 GAL 5.43 AZL 86.70 MCA 236.64 SMA 129.02 ECC .17033 INC 3.2956 V1 30.229
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.519 GAP 4.02 AZP 91.81 TAL 151.71 TAP 28.35 RCA 107.05 APO 151.00 V2 34.783
 RC 105.643 GL 22.32 GP 1.75 ZAL 46.84 ZAP 134.83 ETS 2.29 ZAE 134.89 ETE 177.59 ZAC 89.89 ETC 166.32 CLP-134.85

PLANETOCENTRIC CONIC

C3 17.539 VHL 4.188 DLA 32.78 RAL 20.47 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 3.731 DPA -3.16 RAP 356.72 ECC 1.2886
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.75 23 28 4 3928.71 -23.41 164.00 248.24 66.37 24 33 33 3328.7 -26.40 156.23
 107.25 3 56 47 3082.35 -23.40 101.15 248.23 66.36 4 48 10 2482.4 -26.39 93.39
 72.75 23 28 4 3928.71 -23.41 164.00 248.24 66.37 24 33 33 3328.7 -26.40 156.23
 107.25 3 56 47 3082.35 -23.40 101.15 248.23 66.36 4 48 10 2482.4 -26.39 93.39
 110.00 5 27 50 2802.09 -29.95 82.23 250.97 72.69 6 14 32 2202.1 -32.02 73.63
 110.00 3 0 8 3256.98 -17.18 111.28 244.88 59.98 3 54 25 2657.0 -21.04 104.27

DIFFERENTIAL CORRECTIONS

TOE 2.1715 TRA 2.2693 TC3-2.5796 BAU .6062 SGT 5208.8 SGR 339.7 SG3 1128.6 ST 3171.4 SR 245.3 SS 2475.6
 RDE .1742 RRA -.1188 RC3 .1737 FAU .09902 RRT -.1811 RRF -.2011 RTF .9917 CRT .8271 CRS -.7961 CST -.9986
 FDE 5.1467 FRA 6.2760 FC3-4.8877 BSP 16095 SGB 5219.8 R23 .0211 R13 -.9917 LSA 4026.8 MSA 175.9 SSA 11.8
 BOE 2.1785 BRA 2.2724 BC3 2.5854 FSP -4029 SG1 5209.1 SG2 334.0 THA 179.32 EL1 3177.9 EL2 137.6 ALF 3.67

LAUNCH DATE DEC 6 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.778 GAL 5.61 AZL 86.69 MCA 239.80 SMA 128.94 ECC .17274 INC 3.3067 V1 30.229
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.511 GAP 4.42 AZP 91.66 TAL 151.12 TAP 30.92 RCA 106.66 APO 151.21 V2 34.783
 RC 108.045 GL 21.96 GP 1.62 ZAL 46.14 ZAP 137.95 ETS 2.34 ZAE 133.00 ETE 177.68 ZAC 89.97 ETC 166.32 CLP-137.98

PLANETOCENTRIC CONIC

C3 18.183 VHL 4.264 DLA 32.69 RAL 21.30 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 3.909 DPA -3.27 RAP 356.81 ECC 1.2993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.93 23 32 32 3933.47 -23.12 164.23 249.61 66.22 24 38 6 3333.5 -26.13 156.49
 107.07 3 58 54 3094.41 -23.11 101.94 249.60 66.21 4 50 28 2494.4 -26.13 94.20
 72.93 23 32 32 3933.47 -23.12 164.23 249.61 66.22 24 38 6 3333.5 -26.13 156.49
 107.07 3 58 54 3094.41 -23.11 101.94 249.60 66.21 4 50 28 2494.4 -26.13 94.20
 110.00 5 33 26 2803.25 -29.92 82.32 252.46 72.64 6 20 9 2203.3 -32.00 73.72
 110.00 3 1 7 3272.62 -16.64 112.17 246.09 59.70 3 55 40 2672.6 -20.54 105.22

DIFFERENTIAL CORRECTIONS

TOE 2.2773 TRA 2.4447 TC3-2.5953 BAU .6322 SGT 5431.1 SGR 347.7 SG3 1033.2 ST 3277.0 SR 263.9 SS 2354.4
 RDE .1920 RRA -.1156 RC3 .1670 FAU .08946 RRT -.1303 RRF -.1485 RTF .9916 CRT .8376 CRS -.8076 CST -.9986
 FDE 4.7402 FRA 5.9164 FC3-4.2595 BSP 16941 SGB 5442.2 R23 .0189 R13 -.9916 LSA 4039.7 MSA 179.2 SSA 12.0
 BOE 2.2854 BRA 2.4475 BC3 2.6006 FSP -3711 SG1 5431.3 SG2 344.7 THA 179.52 EL1 3284.4 EL2 143.8 ALF 3.87

LAUNCH DATE DEC 6 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 543.471

RL 147.38 LAL -1.00 LOL 73.94 VL 27.765 GAL 5.82 AZL 86.68 MCA 242.96 SMA 128.85 ECC .17540 INC 3.3171 V1 30.229
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.502 GAP 4.82 AZP 91.51 TAL 150.51 TAP 33.47 RCA 106.25 APO 151.45 V2 34.784
 RC 110.446 GL 21.57 GP 1.49 ZAL 45.41 ZAP 140.85 ETS 2.40 ZAE 131.32 ETE 177.75 ZAC 90.25 ETC 166.33 CLP-140.87

PLANETOCENTRIC CONIC

C3 18.905 VHL 4.348 CLA 32.58 RAL 22.16 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 4.097 DPA -3.28 RAP 357.10 ECC 1.3111
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.17 23 37 32 3937.88 -22.80 164.41 251.06 66.07 24 43 9 3337.9 -25.83 156.70
 106.83 4 0 51 3108.25 -22.79 102.85 251.05 66.06 4 52 39 2508.3 -25.82 95.14
 73.17 23 37 32 3937.88 -22.80 164.41 251.06 66.07 24 43 9 3337.9 -25.83 156.70
 106.83 4 0 51 3108.25 -22.79 102.85 251.05 66.06 4 52 39 2508.3 -25.82 95.14
 110.00 5 39 38 2803.71 -29.91 82.35 254.05 72.63 6 26 22 2203.7 -31.99 73.76
 110.00 3 1 50 3290.41 -16.03 113.19 247.36 59.40 3 56 41 2690.4 -19.97 106.28

DIFFERENTIAL CORRECTIONS

TDE 2.3757 TRA 2.6227 TC3-2.5893 BAU .6557
 RDE .2098 RRA -.1124 RC3 .1599 FAU .08058
 FDE 4.3686 FRA 5.5885 FC3-3.6899 BSP 17702
 BDE 2.3849 BRA 2.6251 BC3 2.5943 FSP -3414

MID-COURSE EXECUTION ACCURACY

SGT 5629.7 SGR 355.9 SG3 945.8
 RRT -.0841 RRF -.1003 RTF .9914
 SGB 5640.9 R23 .0167 R13 -.9914
 SG1 5629.8 SG2 354.6 THA 179.69

ORBIT DETERMINATION ACCURACY

ST 3364.4 SR 281.4 SS 2239.5
 CRT .8451 CRS -.8159 CST -.9986
 LSA 4047.3 MSA 182.7 SSA 12.2
 EL1 3372.8 EL2 150.1 ALF 4.05

LAUNCH DATE DEC 6 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 549.500

RL 147.38 LAL -1.00 LOL 73.94 VL 27.751 GAL 6.04 AZL 86.67 MCA 246.12 SMA 128.75 ECC .17832 INC 3.3270 V1 30.229
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.493 GAP 5.23 AZP 91.35 TAL 149.86 TAP 35.98 RCA 105.79 APO 151.71 V2 34.786
 RC 112.844 GL 21.15 GP 1.39 ZAL 44.65 ZAP 143.54 ETS 2.47 ZAE 129.82 ETE 177.81 ZAC 90.73 ETC 166.35 CLP-143.57

PLANETOCENTRIC CONIC

C3 19.711 VHL 4.440 CLA 32.45 RAL 23.07 RAD 6567.8 VEL 11.878 PTH 2.11 VHP 4.296 DPA -3.18 RAP 357.57 ECC 1.3244
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.44 23 42 58 3942.11 -22.44 164.56 252.59 65.92 24 48 40 3342.1 -25.50 156.89
 106.56 4 2 39 3123.76 -22.43 103.86 252.58 65.91 4 54 43 2523.8 -25.49 96.19
 73.44 23 42 58 3942.11 -22.44 164.56 252.59 65.92 24 48 40 3342.1 -25.50 156.89
 106.56 4 2 39 3123.76 -22.43 103.86 252.58 65.91 4 54 43 2523.8 -25.49 96.19
 110.00 5 46 23 2803.69 -29.91 82.35 255.74 72.63 6 33 7 2203.7 -32.00 73.75
 110.00 3 2 20 3310.17 -15.34 114.30 248.69 59.07 3 57 30 2710.2 -19.33 107.45

DIFFERENTIAL CORRECTIONS

TDE 2.4682 TRA 2.8046 TC3-2.5646 BAU .6770
 RDE .2276 RRA -.1091 RC3 .1523 FAU .07241
 FDE 4.0311 FRA 5.2914 FC3-3.1806 BSP 18390
 BDE 2.4786 BRA 2.8067 BC3 2.5691 FSP -3140

MID-COURSE EXECUTION ACCURACY

SGT 5807.7 SGR 363.9 SG3 866.3
 RRT -.0415 RRF -.0558 RTF .9911
 SGB 5819.1 R23 .0145 R13 -.9911
 SG1 5807.7 SG2 363.6 THA 179.85

ORBIT DETERMINATION ACCURACY

ST 3436.0 SR 298.0 SS 2131.2
 CRT .8506 CRS -.8219 CST -.9986
 LSA 4050.0 MSA 186.2 SSA 12.4
 EL1 3445.4 EL2 156.3 ALF 4.23

LAUNCH DATE DEC 6 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 555.501

RL 147.38 LAL -1.00 LOL 73.94 VL 27.737 GAL 6.29 AZL 86.66 MCA 249.28 SMA 128.65 ECC .18151 INC 3.3363 V1 30.229
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.485 GAP 5.65 AZP 91.18 TAL 149.19 TAP 38.47 RCA 105.30 APO 152.00 V2 34.789
 RC 115.239 GL 20.70 GP 1.29 ZAL 43.85 ZAP 146.06 ETS 2.55 ZAE 128.47 ETE 177.86 ZAC 91.38 ETC 166.37 CLP-146.08

PLANETOCENTRIC CONIC

C3 20.610 VHL 4.540 CLA 32.30 RAL 24.01 RAD 6567.8 VEL 11.916 PTH 2.12 VHP 4.506 DPA -3.01 RAP 358.20 ECC 1.3392
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.77 23 48 50 3946.16 -22.05 164.68 254.20 65.77 24 54 37 3346.2 -25.13 157.04
 106.23 4 4 17 3140.98 -22.04 104.99 254.19 65.76 4 56 38 2541.0 -25.12 97.35
 73.77 23 48 50 3946.16 -22.05 164.68 254.20 65.77 24 54 37 3346.2 -25.13 157.04
 106.23 4 4 17 3140.98 -22.04 104.99 254.19 65.76 4 56 38 2541.0 -25.12 97.35
 110.00 5 53 35 2803.39 -29.92 82.32 257.52 72.64 6 40 19 2203.4 -32.00 73.73
 110.00 3 2 39 3331.75 -14.58 115.52 250.07 58.74 3 58 11 2731.7 -18.62 108.72

DIFFERENTIAL CORRECTIONS

TDE 2.5557 TRA 2.9921 TC3-2.5217 BAU .6959
 RDE .2457 RRA -.1055 RC3 .1442 FAU .06488
 FDE 3.7255 FRA 5.0237 FC3-2.7254 BSP 19006
 BDE 2.5675 BRA 2.9940 BC3 2.5258 FSP -2888

MID-COURSE EXECUTION ACCURACY

SGT 5967.1 SGR 371.6 SG3 794.2
 RRT -.0015 RRF -.0139 RTF .9908
 SGB 5978.7 R23 .0124 R13 -.9908
 SG1 5967.1 SG2 371.6 THA 179.99

ORBIT DETERMINATION ACCURACY

ST 3493.6 SR 313.7 SS 2029.5
 CRT .8546 CRS -.8263 CST -.9986
 LSA 4048.0 MSA 189.8 SSA 12.6
 EL1 3503.9 EL2 162.4 ALF 4.40

LAUNCH DATE DEC 6 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 561.472

RL 147.38 LAL -1.00 LOL 73.94 VL 27.721 GAL 6.55 AZL 86.65 MCA 252.45 SMA 128.54 ECC .18498 INC 3.3453 V1 30.229
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.476 GAP 6.07 AZP 91.01 TAL 148.49 TAP 40.94 RCA 104.76 APO 152.32 V2 34.792
 RC 117.630 GL 20.22 GP 1.21 ZAL 43.03 ZAP 148.41 ETS 2.64 ZAE 127.27 ETE 177.90 ZAC 92.19 ETC 166.39 CLP-148.43

PLANETOCENTRIC CONIC

C3 21.613 VHL 4.649 CLA 32.13 RAL 24.99 RAD 6567.9 VEL 11.958 PTH 2.13 VHP 4.726 DPA -2.75 RAP 358.98 ECC 1.3557
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.14 23 55 12 3949.83 -21.62 164.75 255.88 65.63 25 1 2 3349.8 -24.73 157.15
 105.86 4 5 41 3160.14 -21.61 106.24 255.88 65.62 4 58 21 2560.1 -24.71 98.64
 74.14 23 55 12 3949.83 -21.62 164.75 255.88 65.63 25 1 2 3349.8 -24.73 157.15
 105.86 4 5 41 3160.14 -21.61 106.24 255.88 65.62 4 58 21 2560.1 -24.71 98.64
 110.00 6 1 11 2802.97 -29.93 82.30 259.39 72.65 6 47 54 2203.0 -32.01 73.70
 110.00 3 2 49 3354.99 -13.76 116.81 251.50 58.39 3 58 44 2755.0 -17.84 110.08

DIFFERENTIAL CORRECTIONS

TDE 2.6419 TRA 3.1892 TC3-2.4580 BAU .7113
 RDE .2640 RRA -.1015 RC3 .1357 FAU .05775
 FDE 3.4543 FRA 4.7870 FC3-2.3131 BSP 19495
 BDE 2.6550 BRA 3.1908 BC3 2.4617 FSP -2646

MID-COURSE EXECUTION ACCURACY

SGT 6113.0 SGR 379.0 SG3 729.5
 RRT .0370 RRF .0266 RTF .9903
 SGB 6124.7 R23 -.0102 R13 .9903
 SG1 6113.0 SG2 378.7 THA .13

ORBIT DETERMINATION ACCURACY

ST 3541.9 SR 328.4 SS 1936.7
 CRT .8576 CRS -.8297 CST -.9986
 LSA 4045.5 MSA 193.3 SSA 12.7
 EL1 3553.1 EL2 168.4 ALF 4.56

LAUNCH DATE DEC 6 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.705 GAL 6.83 AZL 86.65 MCA 255.61 SMA 128.43 ECC .18877 INC 3.3539 VI 30.229
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.467 GAP 6.50 AZP 90.83 TAL 147.77 TAP 43.38 RCA 104.18 APO 152.67 V2 34.796
 RC 120.015 GL 19.73 GP 1.13 ZAL 42.18 ZAP 150.61 ETS 2.75 ZAE 126.20 ETE 177.94 ZAC 93.14 ETC 166.42 CLP-150.63

PLANETOCENTRIC CONIC

C3 22.731 VHL 4.768 CLA 31.95 RAL 25.98 RAD 6567.9 VEL 12.005 PTH 2.14 VHP 4.957 DPA -2.43 RAP 359.89 ECC 1.3741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.55 0 5 54 3953.36 -21.16 164.80 257.64 65.49 1 11 47 3353.4 -24.29 157.23
 105.45 4 6 53 3181.05 -21.15 107.61 257.63 65.48 4 59 54 2581.1 -24.28 100.04
 74.55 0 5 54 3953.36 -21.16 164.80 257.64 65.49 1 11 47 3353.4 -24.29 157.23
 105.45 4 6 53 3181.05 -21.15 107.61 257.63 65.48 4 59 54 2581.1 -24.28 100.04
 110.00 6 9 6 2802.60 -29.93 82.27 261.35 72.67 6 55 48 2202.6 -32.01 73.67
 110.00 3 2 51 3379.81 -12.87 118.18 252.99 58.05 3 59 11 2779.8 -17.00 111.51

DIFFERENTIAL CORRECTIONS

TDE 2.7210 TRA 3.3911 TC3-2.3870 BAU .7264
 RDE .2827 RRA -.0968 RC3 .1269 FAU .05155
 FDE 3.2033 FRA 4.5689 FC3-1.9632 BSP 20007
 BDE 2.7357 BRA 3.3925 BC3 2.3904 FSP -2438

MID-COURSE EXECUTION ACCURACY

SGT 6240.1 SGR 385.8 SG3 670.3
 RRT .0735 RRF .0648 RTF .9899
 SGB 6252.0 R23 -.0082 R13 .9899
 SG1 6240.2 SG2 384.7 THA .26

ORBIT DETERMINATION ACCURACY

ST 3574.0 SR 342.2 SS 1846.6
 CRT .8596 CRS -.8320 CST -.9986
 LSA 4032.6 MSA 196.9 SSA 12.8
 EL1 3586.1 EL2 174.3 ALF 4.72

LAUNCH DATE DEC 6 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.688 GAL 7.14 AZL 86.64 MCA 258.77 SMA 128.31 ECC .19288 INC 3.3624 VI 30.229
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.459 GAP 6.95 AZP 90.66 TAL 147.02 TAP 45.80 RCA 103.56 APO 153.06 V2 34.800
 RC 122.394 GL 19.21 GP 1.07 ZAL 41.31 ZAP 152.68 ETS 2.86 ZAE 125.23 ETE 177.98 ZAC 94.21 ETC 166.45 CLP-152.70

PLANETOCENTRIC CONIC

C3 23.979 VHL 4.897 CLA 31.74 RAL 27.00 RAD 6568.0 VEL 12.056 PTH 2.15 VHP 5.199 DPA -2.04 RAP .91 ECC 1.3946
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.02 0 13 9 3956.41 -20.66 164.79 259.46 65.35 1 19 6 3356.4 -23.81 157.26
 104.98 4 7 45 3204.09 -20.65 109.11 259.45 65.34 5 1 9 2604.1 -23.80 101.59
 75.02 0 13 9 3956.41 -20.66 164.79 259.46 65.35 1 19 6 3356.4 -23.81 157.26
 104.98 4 7 45 3204.09 -20.65 109.11 259.45 65.34 5 1 9 2604.1 -23.80 101.59
 110.00 6 17 17 2802.41 -29.94 82.26 263.39 72.68 7 3 59 2202.4 -32.01 73.66
 110.00 3 2 48 3406.09 -11.92 119.63 254.52 57.72 3 59 34 2806.1 -16.09 113.01

DIFFERENTIAL CORRECTIONS

TDE 2.7977 TRA 3.6020 TC3-2.3036 BAU .7395
 RDE .3017 RRA -.0915 RC3 .1178 FAU .04586
 FDE 2.9774 FRA 4.3730 FC3-1.6558 BSP 20474
 BDE 2.8139 BRA 3.6032 BC3 2.3066 FSP -2249

MID-COURSE EXECUTION ACCURACY

SGT 6353.4 SGR 392.1 SG3 616.8
 RRT .1090 RRF .1019 RTF .9895
 SGB 6365.5 R23 -.0063 R13 .9895
 SG1 6353.5 SG2 389.7 THA .39

ORBIT DETERMINATION ACCURACY

ST 3595.9 SR 355.0 SS 1762.6
 CRT .8610 CRS -.8337 CST -.9986
 LSA 4015.3 MSA 200.4 SSA 12.9
 EL1 3608.9 EL2 179.9 ALF 4.87

LAUNCH DATE DEC 6 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.670 GAL 7.47 AZL 86.63 MCA 261.94 SMA 128.19 ECC .19734 INC 3.3706 VI 30.229
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.451 GAP 7.41 AZP 90.47 TAL 146.26 TAP 48.20 RCA 102.89 APO 153.49 V2 34.805
 RC 124.766 GL 18.68 GP 1.00 ZAL 40.42 ZAP 154.65 ETS 2.99 ZAE 124.36 ETE 178.03 ZAC 95.40 ETC 166.48 CLP-154.66

PLANETOCENTRIC CONIC

C3 25.373 VHL 5.037 CLA 31.52 RAL 28.04 RAD 6568.0 VEL 12.114 PTH 2.17 VHP 5.453 DPA -1.60 RAP 2.03 ECC 1.4176
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.54 0 20 52 3959.07 -20.13 164.73 261.34 65.22 1 26 51 3359.1 -23.31 157.24
 104.46 4 8 17 3229.21 -20.12 110.76 261.33 65.21 5 2 6 2629.2 -23.29 103.27
 75.54 0 20 52 3959.07 -20.13 164.73 261.34 65.22 1 26 51 3359.1 -23.31 157.24
 104.46 4 8 17 3229.21 -20.12 110.76 261.33 65.21 5 2 6 2629.2 -23.29 103.27
 110.00 6 25 40 2802.52 -29.94 82.26 265.50 72.67 7 12 23 2202.5 -32.01 73.67
 110.00 3 2 39 3433.76 -10.91 121.13 256.11 57.40 3 59 53 2833.8 -15.13 114.57

DIFFERENTIAL CORRECTIONS

TDE 2.8722 TRA 3.8238 TC3-2.2098 BAU .7505
 RDE .3210 RRA -.0853 RC3 .1085 FAU .04067
 FDE 2.7732 FRA 4.1977 FC3-1.3877 BSP 20896
 BDE 2.8900 BRA 3.8247 BC3 2.2125 FSP -2076

MID-COURSE EXECUTION ACCURACY

SGT 6454.6 SGR 397.8 SG3 568.4
 RRT .1437 RRF .1382 RTF .9890
 SGB 6466.8 R23 -.0045 R13 .9890
 SG1 6454.8 SG2 393.6 THA .51

ORBIT DETERMINATION ACCURACY

ST 3608.4 SR 366.8 SS 1684.0
 CRT .8618 CRS -.8348 CST -.9987
 LSA 3993.6 MSA 203.8 SSA 12.9
 EL1 3622.2 EL2 185.4 ALF 5.02

LAUNCH DATE DEC 6 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -0.00 LOL 73.94 VL 27.652 GAL 7.83 AZL 86.62 MCA 265.10 SMA 128.07 ECC .20217 INC 3.3787 VI 30.229
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.443 GAP 7.88 AZP 90.29 TAL 145.49 TAP 50.59 RCA 102.18 APO 153.96 V2 34.811
 RC 127.128 GL 18.13 GP .95 ZAL 39.53 ZAP 156.51 ETS 3.13 ZAE 123.57 ETE 178.07 ZAC 96.67 ETC 166.50 CLP-156.52

PLANETOCENTRIC CONIC

C3 26.931 VHL 5.189 CLA 31.28 RAL 29.08 RAD 6568.1 VEL 12.178 PTH 2.19 VHP 5.720 DPA -1.11 RAP 3.25 ECC 1.4432
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.12 0 29 3 3961.17 -19.57 164.61 263.29 65.10 1 35 4 3361.2 -22.76 157.16
 103.88 4 8 26 3256.62 -19.56 112.55 263.28 65.09 5 2 42 2656.6 -22.75 105.10
 76.12 0 29 3 3961.17 -19.57 164.61 263.29 65.10 1 35 4 3361.2 -22.76 157.16
 103.88 4 8 26 3256.62 -19.56 112.55 263.28 65.09 5 2 42 2656.6 -22.75 105.10
 110.00 6 34 14 2803.02 -29.93 82.30 267.68 72.65 7 20 57 2203.0 -32.01 73.70
 110.00 3 2 25 3462.76 -9.84 122.70 257.74 57.10 4 0 8 2862.8 -14.01 116.20

DIFFERENTIAL CORRECTIONS

TDE 2.9458 TRA 4.0575 TC3-2.1063 BAU .7592
 RDE .3407 RRA -.0782 RC3 .0992 FAU .03590
 FDE 2.5896 FRA 4.0409 FC3-1.1542 BSP 21269
 BDE 2.9654 BRA 4.0583 BC3 2.1087 FSP -1917

MID-COURSE EXECUTION ACCURACY

SGT 6544.7 SGR 402.9 SG3 524.6
 RRT .1780 RRF .1738 RTF .9886
 SGB 6557.1 R23 -.0028 R13 .9886
 SG1 6545.1 SG2 396.4 THA .63

ORBIT DETERMINATION ACCURACY

ST 3613.2 SR 377.4 SS 1611.1
 CRT .8621 CRS -.8355 CST -.9987
 LSA 3968.6 MSA 207.1 SSA 12.9
 EL1 3627.8 EL2 190.5 ALF 5.16

LAUNCH DATE DEC 6 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -.00 LOL 73.94 VL 27.634 GAL 8.21 AZL 86.61 HCA 268.27 SMA 127.94 ECC .20742 INC 3.3868 V1 30.229
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.436 GAP 8.37 AZP 90.10 TAL 144.70 TAP 52.96 RCA 101.40 APO 154.48 V2 34.818
 RC 129.481 GL 17.56 GP .90 ZAL 38.62 ZAP 158.28 ETS 3.29 ZAE 122.86 ETE 178.12 ZAC 98.04 ETC 166.52 CLP-158.29

PLANETOCENTRIC CONIC

C3 28.675 VHL 5.355 DLA 31.03 RAL 30.13 RAD 6568.2 VEL 12.249 PTH 2.20 VHP 6.000 DPA -.58 RAP 4.54 ECC 1.4719
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.76 0 37 46 3962.55 -18.97 164.42 265.29 64.98 1 43 49 3362.6 -22.19 157.01
 103.24 4 8 6 3286.51 -18.96 114.51 265.28 64.97 5 2 53 2686.5 -22.18 107.10
 76.76 0 37 46 3962.55 -18.97 164.42 265.29 64.98 1 43 49 3362.6 -22.19 157.01
 103.24 4 8 6 3286.51 -18.96 114.51 265.28 64.97 5 2 53 2686.5 -22.18 107.10
 110.00 6 42 55 2804.02 -29.91 82.37 269.93 72.62 7 29 39 2204.0 -31.99 73.78
 110.00 3 2 8 3493.04 -8.71 124.32 259.42 56.81 4 0 21 2893.0 -13.02 117.87

DIFFERENTIAL CORRECTIONS

TDE 3.0213 TRA 4.3073 TC3-1.9918 BAU .7643
 RDE .3609 RRA -.0699 RC3 .0900 FAU .03139
 FDE 2.4264 FRA 3.9033 FC3 -.9477 BSP 21541
 BDE 3.0427 BRA 4.3078 BC3 1.9938 FSP -1766

MID-COURSE EXECUTION ACCURACY

SGT 6627.5 SGR 407.4 SG3 485.1
 RRT .2123 RRF .2095 RTF .9881
 SGB 6640.0 R23 -.0010 R13 .9881
 SGI 6628.0 SG2 398.1 THA .75

ORBIT DETERMINATION ACCURACY

ST 3613.5 SR 387.0 SS 1544.7
 CRT .8622 CRS -.8360 CST -.9987
 LSA 3943.2 MSA 210.1 SSA 12.8
 EL1 3628.9 EL2 195.2 ALF 5.29

LAUNCH DATE DEC 6 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -.00 LOL 73.94 VL 27.615 GAL 8.63 AZL 86.61 HCA 271.44 SMA 127.81 ECC .21311 INC 3.3948 V1 30.229
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.428 GAP 8.89 AZP 89.91 TAL 143.90 TAP 55.33 RCA 100.57 APO 155.05 V2 34.825
 RC 131.823 GL 16.98 GP .86 ZAL 37.70 ZAP 159.97 ETS 3.46 ZAE 122.21 ETE 178.17 ZAC 99.47 ETC 166.53 CLP-159.99

PLANETOCENTRIC CONIC

C3 30.632 VHL 5.535 DLA 30.75 RAL 31.19 RAD 6568.2 VEL 12.329 PTH 2.22 VHP 6.296 DPA -.01 RAP 5.90 ECC 1.5041
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.47 0 47 5 3962.96 -18.35 164.14 267.34 64.87 1 53 8 3363.0 -21.58 156.77
 102.53 4 7 12 3319.17 -18.33 116.65 267.33 64.86 5 2 31 2719.2 -21.56 109.28
 77.47 0 47 5 3962.96 -18.35 164.14 267.34 64.87 1 53 8 3363.0 -21.58 156.77
 102.53 4 7 12 3319.17 -18.33 116.65 267.33 64.86 5 2 31 2719.2 -21.56 109.28
 110.00 6 51 41 2805.58 -29.87 82.48 272.25 72.56 7 38 27 2205.6 -31.97 73.89
 110.00 3 1 46 3524.54 -7.54 126.00 261.14 56.56 4 0 30 2924.5 -11.88 119.60

DIFFERENTIAL CORRECTIONS

TDE 3.0937 TRA 4.5685 TC3-1.8750 BAU .7686
 RDE .3814 RRA -.0605 RC3 .0810 FAU .02740
 FDE 2.2759 FRA 3.7776 FC3 -.7745 BSP 21855
 BDE 3.1171 BRA 4.5689 BC3 1.8768 FSP -1636

MID-COURSE EXECUTION ACCURACY

SGT 6697.2 SGR 411.4 SG3 448.9
 RRT .2459 RRF .2442 RTF .9877
 SGB 6709.8 R23 .0004 R13 .9877
 SGI 6698.0 SG2 398.7 THA .87

ORBIT DETERMINATION ACCURACY

ST 3603.8 SR 395.4 SS 1481.2
 CRT .8619 CRS -.8361 CST -.9988
 LSA 3910.5 MSA 213.0 SSA 12.7
 EL1 3619.9 EL2 199.6 ALF 5.42

LAUNCH DATE DEC 6 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -.00 LOL 73.94 VL 27.595 GAL 9.07 AZL 86.60 HCA 274.61 SMA 127.68 ECC .21929 INC 3.4029 V1 30.229
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.421 GAP 9.42 AZP 89.73 TAL 143.09 TAP 57.70 RCA 99.68 APO 155.68 V2 34.833
 RC 134.153 GL 16.40 GP .82 ZAL 36.79 ZAP 161.60 ETS 3.65 ZAE 121.61 ETE 178.22 ZAC 100.98 ETC 166.53 CLP-161.61

PLANETOCENTRIC CONIC

C3 32.831 VHL 5.730 DLA 30.47 RAL 32.24 RAD 6568.3 VEL 12.418 PTH 2.24 VHP 6.608 DPA .59 RAP 7.32 ECC 1.5403
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.26 0 57 2 3962.16 -17.68 163.75 269.44 64.78 2 3 4 3362.2 -20.93 156.42
 101.74 4 5 38 3354.85 -17.67 119.00 269.44 64.77 5 1 33 2754.8 -20.92 111.67
 78.26 0 57 2 3962.16 -17.68 163.75 269.44 64.78 2 3 4 3362.2 -20.93 156.42
 101.74 4 5 38 3354.85 -17.67 119.00 269.44 64.77 5 1 33 2754.8 -20.92 111.67
 110.00 7 0 31 2807.76 -29.83 82.63 274.62 72.48 7 47 19 2207.8 -31.93 74.05
 110.00 3 1 19 3557.25 -6.30 127.73 262.90 56.33 4 0 37 2957.2 -10.69 121.38

DIFFERENTIAL CORRECTIONS

TDE 3.1660 TRA 4.8452 TC3-1.7544 BAU .7707
 RDE .4022 RRA -.0497 RC3 .0722 FAU .02376
 FDE 2.1397 FRA 3.6655 FC3 -.6265 BSP 22152
 BDE 3.1914 BRA 4.8454 BC3 1.7559 FSP -1517

MID-COURSE EXECUTION ACCURACY

SGT 6757.4 SGR 414.6 SG3 416.0
 RRT .2793 RRF .2784 RTF .9874
 SGB 6770.1 R23 .0018 R13 .9874
 SGI 6758.4 SG2 398.1 THA .99

ORBIT DETERMINATION ACCURACY

ST 3587.5 SR 402.6 SS 1422.2
 CRT .8613 CRS -.8360 CST -.9988
 LSA 3874.0 MSA 215.5 SSA 12.6
 EL1 3604.2 EL2 203.6 ALF 5.54

LAUNCH DATE DEC 6 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

RL 147.38 LAL -.00 LOL 73.94 VL 27.576 GAL 9.56 AZL 86.59 HCA 277.78 SMA 127.55 ECC .22601 INC 3.4110 V1 30.229
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.415 GAP 9.98 AZP 89.54 TAL 142.29 TAP 60.07 RCA 98.72 APO 156.37 V2 34.841
 RC 136.471 GL 15.80 GP .78 ZAL 35.87 ZAP 163.16 ETS 3.87 ZAE 121.06 ETE 178.28 ZAC 102.54 ETC 166.52 CLP-163.18

PLANETOCENTRIC CONIC

C3 35.309 VHL 5.942 DLA 30.17 RAL 33.28 RAD 6568.4 VEL 12.517 PTH 2.27 VHP 6.938 DPA 1.22 RAP 8.79 ECC 1.5811
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.14 1 7 44 3959.71 -16.99 163.22 271.59 64.69 2 13 44 3359.7 -20.26 155.93
 100.86 4 3 16 3394.01 -16.97 121.58 271.58 64.68 4 59 50 2794.0 -20.24 114.29
 79.14 1 7 44 3959.71 -16.99 163.22 271.59 64.69 2 13 44 3359.7 -20.26 155.93
 100.86 4 3 16 3394.01 -16.97 121.58 271.58 64.68 4 59 50 2794.0 -20.24 114.29
 110.00 7 9 21 2810.60 -29.77 82.83 277.05 72.37 7 56 12 2210.6 -31.89 74.27
 110.00 3 0 49 3591.12 -5.02 129.52 264.69 56.14 4 0 40 2991.1 -9.44 123.21

DIFFERENTIAL CORRECTIONS

TDE 3.2404 TRA 5.1405 TC3-1.6291 BAU .7696
 RDE .4234 RRA -.0375 RC3 .0639 FAU .02037
 FDE 2.0172 FRA 3.5666 FC3 -.4994 BSP 22400
 BDE 3.2679 BRA 5.1407 BC3 1.6304 FSP -1407

MID-COURSE EXECUTION ACCURACY

SGT 6810.2 SGR 417.3 SG3 386.0
 RRT .3126 RRF .3124 RTF .9871
 SGB 6823.0 R23 .0029 R13 .9871
 SGI 6811.5 SG2 396.4 THA 1.10

ORBIT DETERMINATION ACCURACY

ST 3567.1 SR 408.4 SS 1367.9
 CRT .8606 CRS -.8358 CST -.9989
 LSA 3835.9 MSA 217.6 SSA 12.5
 EL1 3584.4 EL2 207.0 ALF 5.65

LAUNCH DATE DEC 7 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 15 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -0.00 LOL 74.96 VL 16.450 GAL 26.45 AZL 86.71 MCA 38.32 SMA 86.71 ECC .76856 INC 3.2852 V1 30.233
 RP 107.51 LAP 2.04 LOP 113.23 VP 30.631 GAP -48.77 AZP 87.42 TAL 171.03 TAP 209.35 RCA 20.07 APO 153.35 V2 35.247
 RC 82.065 GL 2.80 GP -1.10 ZAL 64.08 ZAP 33.26 ETS 178.69 ZAE 134.60 ETE 187.02 ZAC 62.14 ETC 162.65 CLP 33.26

PLANETOCENTRIC CONIC

C3 298.983 VHL 17.291 DLA 6.89 RAL 8.92 RAD 6571.7 VEL 20.501 PTH 3.17 VHP 27.464 DPA -15.78 RAP 329.90 ECC 5.9205
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 43 3003.52 -27.97 96.69 275.74 85.38 6 51 46 2403.5 -28.32 88.04
 90.00 19 43 9 5217.12 26.35 234.46 268.68 79.23 21 10 6 4617.1 24.59 226.23
 100.00 7 28 21 2730.54 -29.58 76.76 275.89 85.48 8 11 51 2130.5 -29.89 67.97
 100.00 21 1 12 4965.32 27.93 215.60 268.34 78.90 22 23 58 4365.3 26.12 207.27
 110.00 8 42 7 2493.42 -33.95 59.15 276.28 85.73 9 23 40 1893.4 -34.17 49.91
 110.00 22 1 56 4775.21 32.23 200.15 267.32 77.93 23 21 31 4175.2 30.23 191.51

DIFFERENTIAL CORRECTIONS

TOE -.8419 TRA-2.0417 TC3 -.1123 BAU .4511 SGT 832.4 SGR 453.3 SG3 25.5 ST 346.1 SR 408.5 SS 341.3
 RDE -1.2190 RRA .6050 RC3 -.0113 FAU .01161 RRT -.0257 RRF .0225 RTF -.6261 CRT .7097 CRS .7800 CST .9928
 FDE .3751 FRA .7219 FC3 -.0336 BSP 2015 SGB 947.9 R23 .0004 R13 .6261 LSA 594.0 MSA 223.6 SSA 13.9
 BOE 1.4815 BRA 2.1294 BC3 .1129 FSP -52 SG1 832.6 SG2 453.1 THA 178.86 EL1 496.3 EL2 200.6 ALF 51.60

LAUNCH DATE DEC 7 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -0.00 LOL 74.96 VL 17.215 GAL 25.24 AZL 86.70 MCA 41.57 SMA 88.19 ECC .74171 INC 3.2970 V1 30.233
 RP 107.50 LAP 2.19 LOP 116.48 VP 31.053 GAP -46.58 AZP 87.53 TAL 170.15 TAP 211.72 RCA 22.78 APO 153.60 V2 35.251
 RC 79.887 GL 3.10 GP -1.10 ZAL 62.78 ZAP 31.73 ETS 178.77 ZAE 134.66 ETE 187.46 ZAC 63.78 ETC 162.99 CLP 31.73

PLANETOCENTRIC CONIC

C3 273.798 VHL 16.547 DLA 7.69 RAL 10.02 RAD 6571.6 VEL 19.877 PTH 3.13 VHP 26.444 DPA -15.22 RAP 331.58 ECC 5.5060
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 59 55 3018.03 -27.88 97.74 276.41 84.86 6 50 13 2418.0 -28.30 89.10
 90.00 19 53 42 5180.86 25.86 231.91 268.63 78.04 21 20 3 4580.9 23.95 223.76
 100.00 7 24 58 2743.75 -29.51 77.73 276.57 84.97 8 10 42 2143.8 -29.89 68.95
 100.00 21 11 21 4930.38 27.45 215.11 268.25 77.68 22 33 31 4330.4 25.48 204.87
 110.00 8 41 39 2503.75 -33.89 59.95 277.01 85.26 9 23 23 1903.8 -34.18 50.72
 110.00 22 11 9 4743.14 31.74 197.78 267.12 76.60 23 30 12 4143.1 29.58 189.24

DIFFERENTIAL CORRECTIONS

TDE -.8474 TRA-2.0602 TC3 -.1201 BAU .4419 SGT 873.0 SGR 458.7 SG3 27.5 ST 364.5 SR 413.3 SS 357.3
 RDE -1.1805 RRA .5828 RC3 -.0128 FAU .01166 RRT -.0245 RRF .0218 RTF -.6450 CRT .7087 CRS .7809 CST .9925
 FDE .3905 FRA .7487 FC3 -.0369 BSP 2094 SGB 986.1 R23 .0000 R13 .6450 LSA 615.1 MSA 229.8 SSA 14.2
 BOE 1.4532 BRA 2.1411 BC3 .1207 FSP -57 SG1 873.1 SG2 458.5 THA 178.98 EL1 510.2 EL2 208.4 ALF 50.04

LAUNCH DATE DEC 7 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -0.00 LOL 74.96 VL 17.932 GAL 24.10 AZL 86.69 MCA 44.82 SMA 89.69 ECC .71498 INC 3.3073 V1 30.233
 RP 107.49 LAP 2.33 LOP 119.73 VP 31.459 GAP -44.49 AZP 87.65 TAL 169.27 TAP 214.09 RCA 25.56 APO 153.83 V2 35.254
 RC 77.721 GL 3.42 GP -1.11 ZAL 61.52 ZAP 30.22 ETS 178.86 ZAE 134.79 ETE 187.92 ZAC 65.46 ETC 163.32 CLP 30.22

PLANETOCENTRIC CONIC

C3 250.873 VHL 15.839 DLA 8.47 RAL 11.07 RAD 6571.5 VEL 19.292 PTH 3.10 VHP 25.460 DPA -14.63 RAP 333.28 ECC 5.1287
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 58 3031.79 -27.80 98.74 276.97 84.36 6 48 29 2431.8 -28.29 90.11
 90.00 20 4 2 5144.21 25.32 229.37 268.52 76.88 21 29 46 4544.2 23.26 221.30
 100.00 7 23 25 2756.18 -29.43 78.65 277.15 84.50 8 9 21 2156.2 -29.88 69.87
 100.00 21 21 16 4895.05 26.91 210.62 268.10 76.47 22 42 51 4295.0 24.78 202.47
 110.00 8 41 2 2513.29 -33.84 60.69 277.63 84.83 9 22 55 1913.3 -34.18 51.46
 110.00 22 20 8 4710.70 31.21 195.40 266.86 75.29 23 38 39 4110.7 28.87 186.98

DIFFERENTIAL CORRECTIONS

TDE -.8579 TRA-2.0834 TC3 -.1288 BAU .4347 SGT 918.3 SGR 463.4 SG3 29.8 ST 385.6 SR 417.6 SS 374.1
 RDE -1.1419 RRA .5604 RC3 -.0144 FAU .01171 RRT -.0219 RRF .0206 RTF -.6632 CRT .7088 CRS .7819 CST .9925
 FDE .4067 FRA .7765 FC3 -.0404 BSP 2064 SGB 1028.6 R23 -.0011 R13 .6632 LSA 638.2 MSA 235.6 SSA 14.4
 BOE 1.4282 BRA 2.1574 BC3 .1296 FSP -61 SG1 918.4 SG2 463.2 THA 179.15 EL1 525.8 EL2 216.1 ALF 48.21

LAUNCH DATE DEC 7 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -0.00 LOL 74.96 VL 18.605 GAL 23.03 AZL 86.68 MCA 48.06 SMA 91.21 ECC .68850 INC 3.3165 V1 30.233
 RP 107.48 LAP 2.47 LOP 122.97 VP 31.850 GAP -42.52 AZP 87.78 TAL 168.41 TAP 216.47 RCA 28.41 APO 154.01 V2 35.256
 RC 75.571 GL 3.75 GP -1.11 ZAL 60.33 ZAP 28.73 ETS 178.94 ZAE 135.01 ETE 188.40 ZAC 67.15 ETC 163.63 CLP 28.73

PLANETOCENTRIC CONIC

C3 229.949 VHL 15.164 DLA 9.25 RAL 12.07 RAD 6571.3 VEL 18.742 PTH 3.06 VHP 24.509 DPA -14.03 RAP 334.98 ECC 4.7844
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 49 3044.75 -27.71 99.67 277.42 83.90 6 46 33 2444.8 -28.26 91.05
 90.00 20 14 8 5107.12 24.72 226.81 268.34 75.73 21 39 15 4507.1 22.52 218.84
 100.00 7 21 41 2767.81 -29.35 79.50 277.62 84.05 8 7 48 2167.8 -29.86 70.74
 100.00 21 30 57 4859.30 26.32 208.13 267.89 75.29 22 51 56 4259.3 24.04 200.08
 110.00 8 40 13 2522.01 -33.78 61.36 278.14 84.43 9 22 15 1922.0 -34.18 52.14
 110.00 22 28 54 4677.86 30.62 193.02 266.55 74.00 23 46 52 4077.9 28.12 184.72

DIFFERENTIAL CORRECTIONS

TOE -.8217 TRA-2.0593 TC3 -.1298 BAU .4020 SGT 934.2 SGR 467.6 SG3 32.0 ST 390.5 SR 421.6 SS 386.9
 RDE -1.1038 RRA .5369 RC3 -.0163 FAU .01202 RRT -.0299 RRF .0220 RTF -.6822 CRT .6981 CRS .7815 CST .9909
 FDE .4180 FRA .7993 FC3 -.0453 BSP 3161 SGB 1044.7 R23 .0052 R13 .6822 LSA 649.2 MSA 241.4 SSA 14.4
 BOE 1.3761 BRA 2.1282 BC3 .1308 FSP -76 SG1 934.3 SG2 467.3 THA 178.86 EL1 529.8 EL2 222.5 ALF 48.14

LAUNCH DATE DEC 7 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 154.419

RL 147.36 LAL -.00 LOL 74.96 VL 19.237 GAL 22.01 AZL 86.68 HCA 51.31 SMA 92.73 ECC .66241 INC 3.3248 V1 30.233
 RP 107.48 LAP 2.59 LOP 126.22 VP 32.225 GAP -40.64 AZP 87.92 TAL 167.55 TAP 218.86 RCA 31.31 APO 154.16 V2 35.258
 RC 73.439 GL 4.08 GP -.11 ZAL 59.18 ZAP 27.26 ETS 179.02 ZAE 135.32 ETE 188.91 ZAC 68.87 ETC 163.92 CLP 27.26

PLANETOCENTRIC CONIC

C3 210.887 VHL 14.522 DLA 10.01 RAL 13.02 RAD 6571.2 VEL 18.226 PTH 3.02 VHP 23.590 DPA -13.41 RAP 336.70 ECC 4.4707
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 53 28 3057.05 -27.61 100.56 277.77 83.47 6 44 25 2457.0 -28.23 91.95
 90.00 20 24 4 5069.54 24.07 224.25 268.12 74.61 21 48 33 4469.5 21.72 216.37
 100.00 7 19 46 2778.74 -29.27 80.31 277.99 83.64 8 6 4 2178.7 -29.84 71.55
 100.00 21 40 27 4823.08 25.67 205.64 267.62 74.13 23 0 51 4223.1 23.24 197.68
 110.00 8 39 15 2530.01 -33.73 61.98 278.55 84.07 9 21 25 1930.0 -34.18 52.77
 110.00 22 37 28 4644.58 29.97 190.65 266.18 72.73 23 54 52 4044.6 27.31 182.47

DIFFERENTIAL CORRECTIONS

TDE -.8450 TRA-2.0942 TC3 -.1408 BAU .4002
 RDE-1.0649 RRA .5141 RC3 -.0182 FAU .01204
 FDE .4365 FRA .8294 FC3 -.0494 BSP 2847
 BOE 1.3594 BRA 2.1564 BC3 .1420 FSP -79

MID-COURSE EXECUTION ACCURACY

SGT 991.1 SGR 470.9 SG3 34.6
 RRT -.0238 RRF .0195 RTF -.6986
 SGB 1097.3 R23 .0019 R13 .6986
 SG1 991.2 SG2 470.7 THA 179.16

ORBIT DETERMINATION ACCURACY

ST 417.9 SR 424.7 SS 405.7
 CRT .7017 CRS .7831 CST .9913
 LSA 677.2 MSA 246.5 SSA 14.7
 EL1 549.6 EL2 230.1 ALF 45.65

LAUNCH DATE DEC 7 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 160.433

RL 147.36 LAL -.00 LOL 74.96 VL 19.829 GAL 21.05 AZL 86.67 HCA 54.56 SMA 94.26 ECC .63678 INC 3.3325 V1 30.233
 RP 107.48 LAP 2.71 LOP 129.47 VP 32.583 GAP -38.85 AZP 88.07 TAL 166.71 TAP 221.27 RCA 34.24 APO 154.28 V2 35.259
 RC 71.328 GL 4.44 GP -.12 ZAL 58.09 ZAP 25.82 ETS 179.10 ZAE 135.71 ETE 189.45 ZAC 70.61 ETC 164.20 CLP 25.82

PLANETOCENTRIC CONIC

C3 193.465 VHL 13.909 DLA 10.76 RAL 13.92 RAD 6571.1 VEL 17.742 PTH 2.99 VHP 22.700 DPA -12.77 RAP 338.43 ECC 4.1840
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 50 56 3068.63 -27.52 101.40 278.02 83.06 6 42 4 2468.6 -28.20 92.80
 90.00 20 33 48 5031.44 23.35 221.69 267.83 73.51 21 57 39 4431.4 20.87 213.90
 100.00 7 17 39 2788.95 -29.19 81.05 278.25 83.25 8 4 8 2188.9 -29.82 72.31
 100.00 21 49 46 4786.36 24.96 203.14 267.30 73.00 23 9 32 4186.4 22.40 195.28
 110.00 8 38 5 2537.23 -33.67 62.54 278.85 83.74 9 20 22 1937.2 -34.17 53.33
 110.00 22 45 49 4610.83 29.26 188.28 265.76 71.48 24 2 40 4010.8 26.45 180.22

DIFFERENTIAL CORRECTIONS

TDE -.8491 TRA-2.1091 TC3 -.1485 BAU .3877
 RDE-1.0264 RRA .4909 RC3 -.0204 FAU .01218
 FDE .4534 FRA .8579 FC3 -.0545 BSP 3000
 BOE 1.3321 BRA 2.1655 BC3 .1499 FSP -86

MID-COURSE EXECUTION ACCURACY

SGT 1036.9 SGR 473.6 SG3 37.4
 RRT -.0219 RRF .0179 RTF -.7150
 SGB 1139.9 R23 .0019 R13 -.7150
 SG1 1036.9 SG2 473.5 THA 179.28

ORBIT DETERMINATION ACCURACY

ST 439.2 SR 427.3 SS 423.1
 CRT .7009 CRS .7842 CST .9910
 LSA 700.8 MSA 251.2 SSA 14.9
 EL1 565.1 EL2 236.9 ALF 43.88

LAUNCH DATE DEC 7 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 166.536

RL 147.36 LAL -.00 LOL 74.96 VL 20.386 GAL 20.14 AZL 86.66 HCA 57.81 SMA 95.78 ECC .61170 INC 3.3394 V1 30.233
 RP 107.48 LAP 2.83 LOP 132.72 VP 32.925 GAP -37.15 AZP 88.22 TAL 165.89 TAP 223.69 RCA 37.19 APO 154.37 V2 35.259
 RC 69.241 GL 4.80 GP -.12 ZAL 57.05 ZAP 24.38 ETS 179.18 ZAE 136.20 ETE 190.02 ZAC 72.36 ETC 164.47 CLP 24.38

PLANETOCENTRIC CONIC

C3 177.542 VHL 13.324 DLA 11.51 RAL 14.77 RAD 6570.9 VEL 17.288 PTH 2.95 VHP 21.838 DPA -12.11 RAP 340.17 ECC 3.9219
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 10 3079.57 -27.43 102.18 278.16 82.67 6 39 30 2479.6 -28.16 93.59
 90.00 20 43 22 4992.76 22.58 219.12 267.50 72.45 22 6 34 4392.8 19.97 211.42
 100.00 7 15 20 2798.47 -29.11 81.75 278.40 82.89 8 1 58 2198.5 -29.79 73.01
 100.00 21 58 53 4749.09 24.20 200.64 266.93 71.89 23 18 2 4149.1 21.49 192.88
 110.00 8 36 44 2543.73 -33.63 63.04 279.04 83.45 9 19 8 1943.7 -34.17 53.84
 110.00 22 53 58 4576.59 28.50 185.90 265.29 70.27 24 10 15 3976.6 25.54 177.97

DIFFERENTIAL CORRECTIONS

TDE -.8544 TRA-2.1238 TC3 -.1564 BAU .3751
 RDE -.9879 RRA .4676 RC3 -.0227 FAU .01234
 FDE .4709 FRA .8871 FC3 -.0602 BSP 3136
 BOE 1.3061 BRA 2.1747 BC3 .1580 FSP -94

MID-COURSE EXECUTION ACCURACY

SGT 1085.0 SGR 475.6 SG3 40.4
 RRT -.0194 RRF .0159 RTF -.7307
 SGB 1184.7 R23 .0016 R13 .7307
 SG1 1085.1 SG2 475.5 THA 179.40

ORBIT DETERMINATION ACCURACY

ST 461.9 SR 429.2 SS 441.2
 CRT .7005 CRS .7854 CST .9908
 LSA 725.7 MSA 255.5 SSA 15.1
 EL1 581.7 EL2 243.2 ALF 42.01

LAUNCH DATE DEC 7 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 172.721

RL 147.36 LAL -.00 LOL 74.96 VL 20.908 GAL 19.26 AZL 86.65 HCA 61.06 SMA 97.30 ECC .58723 INC 3.3459 V1 30.233
 RP 107.48 LAP 2.93 LOP 135.97 VP 33.250 GAP -35.52 AZP 88.38 TAL 165.08 TAP 226.14 RCA 40.16 APO 154.43 V2 35.258
 RC 67.184 GL 5.18 GP -.13 ZAL 56.06 ZAP 22.97 ETS 179.26 ZAE 136.79 ETE 190.63 ZAC 74.14 ETC 164.72 CLP 22.97

PLANETOCENTRIC CONIC

C3 162.978 VHL 12.766 DLA 12.25 RAL 15.58 RAD 6570.8 VEL 16.861 PTH 2.91 VHP 21.004 DPA -11.44 RAP 341.91 ECC 3.6822
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 45 11 3089.89 -27.34 102.93 278.20 82.31 6 36 41 2489.9 -28.12 94.35
 90.00 20 52 46 4953.47 21.75 216.54 267.11 71.41 22 15 19 4353.5 19.01 208.93
 100.00 7 12 47 2807.34 -29.03 82.40 278.45 82.56 7 59 35 2207.3 -29.76 73.67
 100.00 22 7 50 4711.26 23.37 198.13 266.51 70.81 23 26 21 4111.3 20.54 190.48
 110.00 8 35 11 2549.53 -33.58 63.49 279.12 83.19 9 17 41 1949.5 -34.16 54.29
 110.00 23 1 56 4541.83 27.68 183.53 264.77 69.09 24 17 38 3941.8 24.58 175.73

DIFFERENTIAL CORRECTIONS

TDE -.8594 TRA-2.1371 TC3 -.1642 BAU .3619
 RDE -.9496 RRA .4443 RC3 -.0252 FAU .01252
 FDE .4891 FRA .9170 FC3 -.0665 BSP 3290
 BOE 1.2808 BRA 2.1828 BC3 .1661 FSP -102

MID-COURSE EXECUTION ACCURACY

SGT 1134.8 SGR 476.9 SG3 43.6
 RRT -.0166 RRF .0136 RTF -.7457
 SGB 1230.9 R23 .0014 R13 .7457
 SG1 1134.8 SG2 476.8 THA 179.52

ORBIT DETERMINATION ACCURACY

ST 485.4 SR 430.6 SS 459.8
 CRT .7004 CRS .7867 CST .9905
 LSA 751.6 MSA 259.3 SSA 15.2
 EL1 599.2 EL2 249.0 ALF 40.13

LAUNCH DATE DEC 7 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -0.00 LOL 74.96 VL 21.398 GAL 18.43 AZL 86.65 MCA 64.30 SMA 98.80 ECC .56341 INC 3.3521 VI 30.233
 RP 107.48 LAP 3.02 LOP 139.22 VP 33.559 GAP -33.96 AZP 88.55 TAL 164.30 TAP 228.60 RCA 43.13 APO 154.46 V2 35.257
 RC 65.159 GL 5.57 GP -.13 ZAL 55.13 ZAP 21.57 ETS 179.34 ZAE 137.48 ETE 191.29 ZAC 75.92 ETC 164.96 CLP 21.57

PLANETOCENTRIC CONIC

C3 149.651 VHL 12.233 DLA 12.98 RAL 16.33 RAD 6570.6 VEL 16.461 PTH 2.87 VHP 20.196 DPA -10.76 RAP 343.65 ECC 3.4629
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 41 57 3099.67 -27.25 103.63 278.13 81.97 6 33 37 2499.7 -28.08 95.06
 90.00 21 2 0 4913.54 20.86 213.94 266.67 70.41 22 23 54 4313.5 18.00 206.44
 100.00 7 10 1 2815.62 -28.96 83.00 278.40 82.25 7 56 57 2215.6 -29.73 74.29
 100.00 22 16 37 4672.82 22.49 195.61 266.03 69.77 23 34 30 4072.8 19.53 188.07
 110.00 8 33 25 2554.66 -33.54 63.88 279.09 82.96 9 16 0 1954.7 -34.15 54.69
 110.00 23 9 43 4506.54 26.79 181.17 264.20 67.93 24 24 49 3906.5 23.56 173.50

DIFFERENTIAL CORRECTIONS

TDE -.8622 TRA-2.1470 TC3 -.1712 BAU .3470
 RDE -.9116 RRA .4211 RC3 -.0278 FAU .01275
 FDE .5079 FRA .9474 FC3 -.0737 BSP 3503
 BOE 1.2548 BRA 2.1879 BC3 .1735 FSP -112

MID-COURSE EXECUTION ACCURACY

SGT 1184.7 SGR 477.4 SG3 47.0
 RRT -.0140 RRF .0111 RTF -.7602
 SGB 1277.2 R23 .0016 R13 .7602
 SG1 1184.7 SG2 477.3 THA 179.62

ORBIT DETERMINATION ACCURACY

ST 509.0 SR 431.3 SS 478.7
 CRT .7000 CRS .7882 CST .9902
 LSA 777.9 MSA 262.6 SSA 15.4
 EL1 616.8 EL2 254.2 ALF 38.31

LAUNCH DATE DEC 7 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -0.00 LOL 74.96 VL 21.858 GAL 17.63 AZL 86.64 MCA 67.55 SMA 100.28 ECC .54030 INC 3.3579 VI 30.233
 RP 107.49 LAP 3.10 LOP 142.47 VP 33.852 GAP -32.47 AZP 88.72 TAL 163.53 TAP 231.09 RCA 46.10 APO 154.47 V2 35.254
 RC 63.173 GL 5.97 GP -.14 ZAL 54.25 ZAP 20.18 ETS 179.41 ZAE 138.28 ETE 191.99 ZAC 77.72 ETC 165.18 CLP 20.18

PLANETOCENTRIC CONIC

C3 137.455 VHL 11.724 DLA 13.70 RAL 17.03 RAD 6570.5 VEL 16.087 PTH 2.83 VHP 19.412 DPA -10.06 RAP 345.40 ECC 3.2622
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 28 3108.94 -27.16 104.29 277.96 81.65 6 30 17 2508.9 -28.03 95.73
 90.00 21 11 7 4872.93 19.91 211.34 266.18 69.44 22 32 20 4272.9 16.94 203.93
 100.00 7 7 1 2823.36 -28.89 83.57 278.24 81.96 7 54 4 2223.4 -29.70 74.86
 100.00 22 25 15 4633.75 21.55 193.09 265.52 68.77 23 42 29 4033.8 18.47 185.65
 110.00 8 31 27 2559.18 -33.50 64.23 278.96 82.76 9 14 6 1959.2 -34.14 55.05
 110.00 23 17 19 4470.70 25.86 178.80 263.60 66.82 24 31 49 3870.7 22.49 171.26

DIFFERENTIAL CORRECTIONS

TDE -.8682 TRA-2.1583 TC3 -.1788 BAU .3333
 RDE -.8738 RRA .3980 RC3 -.0307 FAU .01298
 FDE .5279 FRA .9790 FC3 -.0818 BSP 3653
 BOE 1.2318 BRA 2.1947 BC3 .1814 FSP -122

MID-COURSE EXECUTION ACCURACY

SGT 1238.7 SGR 477.1 SG3 50.8
 RRT -.0101 RRF .0080 RTF -.7739
 SGB 1327.4 R23 .0012 R13 .7739
 SG1 1238.7 SG2 477.1 THA 179.74

ORBIT DETERMINATION ACCURACY

ST 535.0 SR 431.3 SS 498.7
 CRT .7006 CRS .7899 CST .9900
 LSA 806.5 MSA 265.2 SSA 15.5
 EL1 636.7 EL2 258.6 ALF 36.39

LAUNCH DATE DEC 7 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -0.00 LOL 74.96 VL 22.290 GAL 16.87 AZL 86.64 MCA 70.80 SMA 101.75 ECC .51791 INC 3.3634 VI 30.233
 RP 107.50 LAP 3.18 LOP 145.72 VP 34.129 GAP -31.04 AZP 88.89 TAL 162.80 TAP 233.59 RCA 49.05 APO 154.45 V2 35.251
 RC 61.231 GL 6.39 GP -.14 ZAL 53.42 ZAP 18.79 ETS 179.47 ZAE 139.19 ETE 192.75 ZAC 79.53 ETC 165.39 CLP 18.79

PLANETOCENTRIC CONIC

C3 126.290 VHL 11.238 DLA 14.42 RAL 17.69 RAD 6570.3 VEL 15.736 PTH 2.79 VHP 18.653 DPA -9.34 RAP 347.15 ECC 3.0784
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 34 42 3117.80 -27.07 104.92 277.68 81.35 6 26 40 2517.8 -27.99 96.38
 90.00 21 20 6 4831.62 18.90 208.73 265.65 68.52 22 40 38 4231.6 15.82 201.42
 100.00 7 3 45 2830.61 -28.82 84.10 277.98 81.69 7 50 56 2230.6 -29.67 75.39
 100.00 22 33 44 4594.04 20.55 190.57 264.95 67.80 23 50 18 3994.0 17.36 183.23
 110.00 8 29 15 2563.12 -33.46 64.53 278.73 82.58 9 11 58 1963.1 -34.13 55.35
 110.00 23 24 44 4434.30 24.86 176.44 262.95 65.74 24 38 39 3834.3 21.37 169.03

DIFFERENTIAL CORRECTIONS

TDE -.8717 TRA-2.1652 TC3 -.1852 BAU .3179
 RDE -.8365 RRA .3752 RC3 -.0338 FAU .01327
 FDE .5486 FRA 1.0113 FC3 -.0909 BSP 3873
 BOE 1.2081 BRA 2.1975 BC3 .1883 FSP -134

MID-COURSE EXECUTION ACCURACY

SGT 1292.3 SGR 476.1 SG3 54.9
 RRT -.0065 RRF .0046 RTF -.7871
 SGB 1377.2 R23 .0013 R13 .7871
 SG1 1292.3 SG2 476.1 THA 179.84

ORBIT DETERMINATION ACCURACY

ST 560.9 SR 430.6 SS 519.2
 CRT .7010 CRS .7916 CST .9898
 LSA 835.4 MSA 267.3 SSA 15.7
 EL1 656.7 EL2 262.3 ALF 34.56

LAUNCH DATE DEC 7 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -0.00 LOL 74.96 VL 22.695 GAL 16.13 AZL 86.63 MCA 74.04 SMA 103.19 ECC .49629 INC 3.3687 VI 30.233
 RP 107.51 LAP 3.24 LOP 148.98 VP 34.391 GAP -29.67 AZP 89.07 TAL 162.09 TAP 236.13 RCA 51.98 APO 154.40 V2 35.248
 RC 59.338 GL 6.83 GP -.15 ZAL 52.65 ZAP 17.42 ETS 179.53 ZAE 140.22 ETE 193.57 ZAC 81.34 ETC 165.59 CLP 17.42

PLANETOCENTRIC CONIC

C3 116.069 VHL 10.774 DLA 15.13 RAL 18.29 RAD 6570.2 VEL 15.408 PTH 2.75 VHP 17.917 DPA -8.62 RAP 348.90 ECC 2.9102
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 39 3126.30 -26.98 105.53 277.31 81.05 6 22 45 2526.3 -27.94 97.00
 90.00 21 28 59 4789.58 17.84 206.11 265.08 67.64 22 48 48 4189.6 14.65 198.88
 100.00 7 0 13 2837.45 -28.75 84.59 277.62 81.44 7 47 31 2237.5 -29.63 75.90
 100.00 22 42 6 4553.66 19.49 188.04 264.35 66.87 23 57 59 3953.7 16.19 180.80
 110.00 8 26 48 2566.54 -33.43 64.80 278.40 82.43 9 9 35 1966.5 -34.12 55.62
 110.00 23 32 0 4397.34 23.80 174.09 262.26 64.71 24 45 17 3797.3 20.20 166.80

DIFFERENTIAL CORRECTIONS

TDE -.8757 TRA-2.1709 TC3 -.1913 BAU .3023
 RDE -.7995 RRA .3526 RC3 -.0371 FAU .01358
 FDE .5705 FRA 1.0447 FC3 -.1013 BSP 4087
 BOE 1.1858 BRA 2.1993 BC3 .1948 FSP -146

MID-COURSE EXECUTION ACCURACY

SGT 1348.0 SGR 474.3 SG3 59.3
 RRT -.0022 RRF .0007 RTF -.7996
 SGB 1429.0 R23 .0013 R13 .7996
 SG1 1348.0 SG2 474.3 THA 179.95

ORBIT DETERMINATION ACCURACY

ST 588.0 SR 429.2 SS 540.5
 CRT .7019 CRS .7937 CST .9896
 LSA 865.9 MSA 268.7 SSA 15.8
 EL1 678.0 EL2 265.1 ALF 32.74

LAUNCH DATE DEC 7 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 204.675

RL 147.36 LAL -.00 LOL 74.96 VL 23.075 GAL 15.43 AZL 86.63 HCA 77.29 SMA 104.61 ECC .47544 INC 3.3739 V1 30.233
 RP 107.52 LAP 3.29 LOP 152.23 VP 34.639 GAP -28.35 AZP 89.26 TAL 161.40 TAP 238.69 RCA 54.87 APO 154.34 V2 35.243
 RC 57.501 GL 7.28 GP -.16 ZAL 51.94 ZAP 16.06 ETS 179.57 ZAE 141.38 ETE 194.47 ZAC 83.17 ETC 165.76 CLP 16.06

PLANETOCENTRIC CONIC

C3 106.713 VHL 10.330 DLA 15.84 RAL 18.85 RAD 6570.0 VEL 15.101 PTH 2.72 VHP 17.203 DPA -7.89 RAP 350.65 ECC 2.7562
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 18 3134.55 -26.89 106.12 276.84 80.77 6 18 32 2534.6 -27.89 97.59
 90.00 21 37 45 4746.79 16.71 203.48 264.47 66.80 22 56 52 4146.8 13.43 196.34
 100.00 6 56 24 2843.96 -28.68 85.07 277.16 81.20 7 43 48 2244.0 -29.60 76.38
 100.00 22 50 20 4512.62 18.37 185.50 263.70 66.00 24 5 33 3912.6 14.97 178.36
 110.00 8 24 7 2569.51 -33.41 65.02 277.96 82.30 9 6 57 1969.5 -34.11 55.85
 110.00 23 39 6 4359.83 22.69 171.75 261.54 63.72 24 51 46 3759.8 18.98 164.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8800 TRA-2.1747 TC3 -.1966 BAU .2864 SGT 1405.4 SGR 471.6 SG3 64.1 ST 616.3 SR 427.1 SS 562.8
 RDE -.7631 RRA .3304 RC3 -.0405 FAU .01393 RRT .0026 RRF -.0037 RTF -.8115 CRT .7032 CRS .7959 CST .9894
 FDE .5939 FRA 1.0794 FC3 -.1130 BSP 4313 SGB 1482.4 R23 -.0013 R13 -.8115 LSA 897.9 MSA 269.4 SSA 15.9
 BDE 1.1647 BRA 2.1996 BC3 .2008 FSP -160 SG1 1405.4 SG2 471.6 THA .06 EL1 700.6 EL2 267.1 ALF 30.96

LAUNCH DATE DEC 7 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 211.233

RL 147.36 LAL -.00 LOL 74.96 VL 23.431 GAL 14.76 AZL 86.62 HCA 80.53 SMA 105.99 ECC .45538 INC 3.3789 V1 30.233
 RP 107.54 LAP 3.33 LOP 155.48 VP 34.872 GAP -27.08 AZP 89.44 TAL 160.75 TAP 241.28 RCA 57.72 APO 154.25 V2 35.238
 RC 55.726 GL 7.75 GP -.16 ZAL 51.28 ZAP 14.70 ETS 179.60 ZAE 142.66 ETE 195.46 ZAC 84.99 ETC 165.93 CLP 14.70

PLANETOCENTRIC CONIC

C3 98.150 VHL 9.907 DLA 16.54 RAL 19.35 RAD 6569.9 VEL 14.815 PTH 2.68 VHP 16.512 DPA -7.15 RAP 352.40 ECC 2.6153
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 36 3142.64 -26.80 106.69 276.27 80.50 6 13 59 2542.6 -27.84 98.18
 90.00 21 46 27 4703.24 15.52 200.83 263.82 66.02 23 4 51 4103.2 12.15 193.78
 100.00 6 52 17 2850.22 -28.62 85.52 276.61 80.97 7 39 47 2250.2 -29.57 76.84
 100.00 22 58 28 4470.90 17.20 182.96 263.03 65.17 24 12 59 3870.9 13.71 175.91
 110.00 8 21 10 2572.10 -33.38 65.22 277.43 82.18 9 4 3 1972.1 -34.10 56.05
 110.00 23 46 4 4321.78 21.53 169.41 260.79 62.78 24 58 5 3721.8 17.71 162.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8869 TRA-2.1790 TC3 -.2022 BAU .2716 SGT 1466.9 SGR 468.2 SG3 69.3 ST 647.1 SR 424.3 SS 586.5
 RDE -.7272 RRA .3086 RC3 -.0442 FAU .01431 RRT .0087 RRF -.0088 RTF -.8227 CRT .7056 CRS .7984 CST .9893
 FDE .6190 FRA 1.1157 FC3 -.1262 BSP 4482 SGB 1539.8 R23 -.0008 R13 -.8227 LSA 932.7 MSA 269.4 SSA 16.0
 BDE 1.1469 BRA 2.2008 BC3 .2070 FSP -175 SG1 1466.9 SG2 468.2 THA .18 EL1 725.9 EL2 268.0 ALF 29.18

LAUNCH DATE DEC 7 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 217.834

RL 147.36 LAL -.00 LOL 74.96 VL 23.765 GAL 14.11 AZL 86.62 HCA 83.78 SMA 107.34 ECC .43612 INC 3.3838 V1 30.233
 RP 107.56 LAP 3.36 LOP 158.72 VP 35.091 GAP -25.86 AZP 89.63 TAL 160.13 TAP 243.90 RCA 60.53 APO 154.15 V2 35.232
 RC 54.021 GL 8.23 GP -.17 ZAL 50.67 ZAP 13.34 ETS 179.61 ZAE 144.07 ETE 196.56 ZAC 86.82 ETC 166.08 CLP 13.34

PLANETOCENTRIC CONIC

C3 90.313 VHL 9.503 DLA 17.24 RAL 19.80 RAD 6569.8 VEL 14.548 PTH 2.64 VHP 15.841 DPA -6.40 RAP 354.14 ECC 2.4863
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 16 34 3150.69 -26.71 107.26 275.62 80.23 6 9 5 2550.7 -27.79 98.76
 90.00 21 55 6 4658.90 14.28 198.17 263.14 65.28 23 12 45 4058.9 10.82 191.19
 100.00 6 47 51 2856.32 -28.55 85.96 275.96 80.74 7 35 27 2256.3 -29.53 77.29
 100.00 23 6 30 4428.50 15.97 180.41 262.32 64.39 24 20 18 3828.5 12.39 173.45
 110.00 8 17 58 2574.37 -33.36 65.39 276.81 82.08 9 0 52 1974.4 -34.10 56.23
 110.00 23 52 4283.21 20.31 167.08 260.00 61.89 25 4 16 3683.2 16.39 160.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8919 TRA-2.1790 TC3 -.2060 BAU .2554 SGT 1527.9 SGR 463.9 SG3 75.0 ST 677.9 SR 420.7 SS 611.0
 RDE -.6919 RRA .2873 RC3 -.0480 FAU .01475 RRT .0149 RRF -.0144 RTF -.8334 CRT .7079 CRS .8012 CST .9891
 FDE .6456 FRA 1.1533 FC3 -.1414 BSP 4709 SGB 1596.8 R23 -.0007 R13 -.8334 LSA 968.2 MSA 268.7 SSA 16.1
 BDE 1.1288 BRA 2.1979 BC3 .2115 FSP -191 SG1 1527.9 SG2 463.9 THA .29 EL1 751.5 EL2 268.1 ALF 27.51

LAUNCH DATE DEC 7 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 224.474

RL 147.36 LAL -.00 LOL 74.96 VL 24.078 GAL 13.49 AZL 86.61 HCA 87.02 SMA 108.66 ECC .41764 INC 3.3886 V1 30.233
 RP 107.58 LAP 3.38 LOP 161.97 VP 35.297 GAP -24.68 AZP 89.82 TAL 159.54 TAP 246.56 RCA 63.28 APO 154.03 V2 35.226
 RC 52.393 GL 8.73 GP -.18 ZAL 50.12 ZAP 11.98 ETS 179.59 ZAE 145.61 ETE 197.79 ZAC 88.65 ETC 166.21 CLP 11.98

PLANETOCENTRIC CONIC

C3 83.145 VHL 9.118 DLA 17.93 RAL 20.20 RAD 6569.6 VEL 14.300 PTH 2.60 VHP 15.191 DPA -5.65 RAP 355.88 ECC 2.3684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 9 3158.80 -26.61 107.84 274.87 79.95 6 3 48 2558.8 -27.73 99.35
 90.00 22 3 42 4613.77 12.97 195.50 262.43 64.61 23 20 35 4013.8 9.45 188.59
 100.00 6 43 5 2862.38 -28.48 86.40 275.23 80.52 7 30 47 2262.4 -29.50 77.74
 100.00 23 14 27 4385.43 14.68 177.86 261.58 63.67 24 27 33 3785.4 11.03 170.98
 110.00 8 14 29 2576.42 -33.34 65.55 276.10 81.99 8 57 25 1976.4 -34.09 56.39
 110.00 0 3 29 4244.15 19.04 164.76 259.20 61.06 1 14 13 3644.2 15.03 157.94

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8973 TRA-2.1770 TC3 -.2087 BAU .2391 SGT 1590.6 SGR 458.9 SG3 81.2 ST 710.0 SR 416.4 SS 636.8
 RDE -.6573 RRA .2665 RC3 -.0520 FAU .01524 RRT .0218 RRF -.0206 RTF -.8436 CRT .7108 CRS .8042 CST .9890
 FDE .6742 FRA 1.1926 FC3 -.1586 BSP 4939 SGB 1655.5 R23 -.0006 R13 -.8436 LSA 1005.6 MSA 267.3 SSA 16.2
 BDE 1.1123 BRA 2.1933 BC3 .2151 FSP -209 SG1 1590.6 SG2 458.7 THA .39 EL1 778.5 EL2 267.1 ALF 25.90

LAUNCH DATE DEC 7 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 231.147

RL 147.36 LAL -0.00 LOL 74.96 VL 24.371 GAL 12.90 AZL 86.61 MCA 90.26 SMA 109.93 ECC .39996 INC 3.3935 V1 30.233
 RP 107.60 LAP 3.39 LOP 165.22 VP 35.490 GAP -23.55 AZP 90.02 TAL 158.98 TAP 249.24 RCA 65.96 APO 153.90 V2 35.219
 RC 50.852 GL 9.25 GP -19 ZAL 49.63 ZAP 10.62 ETS 179.53 ZAE 147.29 ETE 199.18 ZAC 90.48 ETC 166.33 CLP 10.62

PLANETOCENTRIC CONIC

C3 76.589 VHL 8.752 DLA 18.63 RAL 20.55 RAD 6569.5 VEL 14.069 PTH 2.57 VHP 14.561 DPA -4.90 RAP 357.61 ECC 2.2605
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 21 3167.13 -26.51 108.43 274.04 79.67 5 58 8 2567.1 -27.67 99.95
 90.00 22 12 16 4567.82 11.62 192.80 261.70 63.99 23 28 24 3967.8 8.03 185.96
 100.00 6 37 57 2868.50 -28.41 86.84 274.41 80.30 7 25 46 2268.5 -29.46 78.19
 100.00 23 22 21 4341.68 13.34 175.30 260.82 63.00 24 34 43 3741.7 9.62 168.49
 110.00 8 10 42 2578.32 -33.32 65.70 275.31 81.91 8 53 40 1978.3 -34.08 56.54
 110.00 0 10 2 4204.63 17.72 162.46 258.36 60.28 1 20 6 3604.6 13.63 155.73

DIFFERENTIAL CORRECTIONS

TDE -.9028 TRA-2.1724 TC3 -.2100 BAU .2225
 RDE -.6234 RRA .2463 RC3 -.0561 FAU .01578
 FDE .7049 FRA 1.2338 FC3 -.1784 BSP 5182
 BOE 1.0972 BRA 2.1864 BC3 .2173 FSP -229

MID-COURSE EXECUTION ACCURACY

SGT 1654.4 SGR 453.0 SG3 88.0
 RRT .0293 RRF -.0274 RTF -.8532
 SGB 1715.3 R23 -.0004 R13 -.8532
 SG1 1654.5 SG2 452.8 THA .50

ORBIT DETERMINATION ACCURACY

ST 743.1 SR 411.3 SS 663.9
 CRT .7141 CRS .8075 CST .9890
 LSA 1044.8 MSA 265.2 SSA 16.3
 EL1 806.9 EL2 265.2 ALF 24.37

LAUNCH DATE DEC 7 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 237.849

RL 147.36 LAL -0.00 LOL 74.96 VL 24.645 GAL 12.33 AZL 86.60 MCA 93.50 SMA 111.17 ECC .38307 INC 3.3983 V1 30.233
 RP 107.62 LAP 3.39 LOP 168.46 VP 35.672 GAP -22.45 AZP 90.21 TAL 158.46 TAP 251.96 RCA 68.58 APO 153.76 V2 35.211
 RC 49.405 GL 9.78 GP -20 ZAL 49.19 ZAP 9.26 ETS 179.42 ZAE 149.10 ETE 200.77 ZAC 92.30 ETC 166.44 CLP 9.25

PLANETOCENTRIC CONIC

C3 70.597 VHL 8.402 DLA 19.31 RAL 20.84 RAD 6569.4 VEL 13.855 PTH 2.53 VHP 13.950 DPA -4.14 RAP 359.33 ECC 2.1618
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 59 7 3175.81 -26.41 109.04 273.12 79.38 5 52 2 2575.8 -27.60 100.58
 90.00 22 20 52 4521.05 10.21 190.09 260.94 63.44 23 36 13 3921.0 6.56 183.31
 100.00 6 32 27 2874.81 -28.34 87.29 273.52 80.07 7 20 22 2274.8 -29.42 78.66
 100.00 23 30 12 4297.28 11.96 172.73 260.03 62.40 24 41 49 3697.3 8.17 165.99
 110.00 8 6 38 2580.17 -33.31 65.84 274.44 81.82 8 49 38 1980.2 -34.08 56.68
 110.00 0 16 27 4164.68 16.36 160.16 257.51 59.56 1 25 52 3564.7 12.19 153.53

DIFFERENTIAL CORRECTIONS

TDE -.9090 TRA-2.1662 TC3 -.2098 BAU .2061
 RDE -.5903 RRA .2267 RC3 -.0603 FAU .01638
 FDE .7382 FRA 1.2772 FC3 -.2009 BSP 5420
 BOE 1.0838 BRA 2.1780 BC3 .2183 FSP -251

MID-COURSE EXECUTION ACCURACY

SGT 1720.1 SGR 446.3 SG3 95.4
 RRT .0377 RRF -.0351 RTF -.8623
 SGB 1777.0 R23 -.0002 R13 -.8623
 SG1 1720.2 SG2 445.9 THA .60

ORBIT DETERMINATION ACCURACY

ST 777.7 SR 405.6 SS 692.5
 CRT .7181 CRS .8111 CST .9889
 LSA 1086.2 MSA 262.4 SSA 16.3
 EL1 837.0 EL2 262.3 ALF 22.91

LAUNCH DATE DEC 7 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 244.576

RL 147.36 LAL -0.00 LOL 74.96 VL 24.902 GAL 11.78 AZL 86.60 MCA 96.74 SMA 112.37 ECC .36696 INC 3.4032 V1 30.233
 RP 107.65 LAP 3.38 LOP 171.71 VP 35.841 GAP -21.40 AZP 90.40 TAL 157.97 TAP 254.71 RCA 71.13 APO 153.60 V2 35.202
 RC 48.064 GL 10.33 GP -22 ZAL 48.82 ZAP 7.89 ETS 179.22 ZAE 151.04 ETE 202.61 ZAC 94.11 ETC 166.53 CLP 7.88

PLANETOCENTRIC CONIC

C3 65.122 VHL 8.070 DLA 20.00 RAL 21.09 RAD 6569.2 VEL 13.656 PTH 2.50 VHP 13.358 DPA -3.39 RAP 1.04 ECC 2.0717
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 25 3185.01 -26.29 109.69 272.13 79.08 5 45 30 2585.0 -27.53 101.24
 90.00 22 29 29 4473.42 8.75 187.36 260.17 62.96 23 44 3 3873.4 5.05 180.62
 100.00 6 26 33 2881.44 -28.26 87.77 272.54 79.83 7 14 35 2281.4 -29.38 79.14
 100.00 23 38 2 4252.20 10.52 170.15 259.23 61.86 24 48 54 3652.2 6.68 163.47
 110.00 8 2 14 2582.07 -33.29 65.98 273.49 81.74 8 45 17 1982.1 -34.07 56.83
 110.00 0 22 46 4124.35 14.95 157.88 256.65 58.90 1 31 30 3524.4 10.72 151.33

DIFFERENTIAL CORRECTIONS

TDE -.9155 TRA-2.1574 TC3 -.2078 BAU .1894
 RDE -.5581 RRA .2077 RC3 -.0646 FAU .01705
 FDE .7743 FRA 1.3229 FC3 -.2267 BSP 5666
 BOE 1.0722 BRA 2.1673 BC3 .2176 FSP -275

MID-COURSE EXECUTION ACCURACY

SGT 1786.6 SGR 438.8 SG3 103.5
 RRT .0469 RRF -.0434 RTF -.8709
 SGB 1839.7 R23 .0000 R13 -.8709
 SG1 1786.7 SG2 438.3 THA .70

ORBIT DETERMINATION ACCURACY

ST 813.5 SR 399.0 SS 722.9
 CRT .7226 CRS .8150 CST .9890
 LSA 1129.7 MSA 258.9 SSA 16.4
 EL1 868.4 EL2 258.4 ALF 21.52

LAUNCH DATE DEC 7 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 251.323

RL 147.36 LAL -0.00 LOL 74.96 VL 25.141 GAL 11.26 AZL 86.59 MCA 99.98 SMA 113.52 ECC .35161 INC 3.4081 V1 30.233
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.999 GAP -20.38 AZP 90.59 TAL 157.53 TAP 257.50 RCA 73.60 APO 153.43 V2 35.194
 RC 46.839 GL 10.90 GP -23 ZAL 48.49 ZAP 6.51 ETS 178.87 ZAE 153.11 ETE 204.77 ZAC 95.91 ETC 166.60 CLP 6.50

PLANETOCENTRIC CONIC

C3 60.123 VHL 7.754 DLA 20.69 RAL 21.27 RAD 6569.1 VEL 13.471 PTH 2.46 VHP 12.785 DPA -2.63 RAP 2.74 ECC 1.9895
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 13 3194.91 -26.16 110.39 271.06 78.75 5 38 28 2594.9 -27.45 101.96
 90.00 22 38 11 4424.91 7.23 184.59 259.38 62.55 23 51 56 3824.9 3.50 177.90
 100.00 6 20 14 2888.52 -28.18 88.28 271.50 79.58 7 8 23 2288.5 -29.33 79.67
 100.00 23 45 51 4206.53 9.05 167.57 258.41 61.39 24 55 58 3606.5 5.16 160.94
 110.00 7 57 32 2584.12 -33.27 66.14 272.48 81.65 8 40 36 1984.1 -34.06 56.99
 110.00 0 28 58 4083.69 13.51 155.61 255.77 58.30 1 37 2 3483.7 9.22 149.14

DIFFERENTIAL CORRECTIONS

TDE -.9225 TRA-2.1465 TC3 -.2040 BAU .1731
 RDE -.5267 RRA .1894 RC3 -.0690 FAU .01779
 FDE .8138 FRA 1.3715 FC3 -.2561 BSP 5911
 BOE 1.0622 BRA 2.1548 BC3 .2153 FSP -301

MID-COURSE EXECUTION ACCURACY

SGT 1854.5 SGR 430.4 SG3 112.4
 RRT .0570 RRF -.0527 RTF -.8790
 SGB 1903.8 R23 .0003 R13 -.8790
 SG1 1854.7 SG2 429.7 THA .80

ORBIT DETERMINATION ACCURACY

ST 850.5 SR 391.8 SS 755.1
 CRT .7277 CRS .8192 CST .9890
 LSA 1175.6 MSA 254.7 SSA 16.4
 EL1 901.5 EL2 253.5 ALF 20.20

LAUNCH DATE DEC 7 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC
 RL 147.36 LAL -.00 LOL 74.96 VL 25.365 GAL 10.76 AZL 86.59 MCA 103.21 SMA 114.63 ECC .33702 INC 3.4131 V1 30.233
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.147 GAP -19.40 AZP 90.78 TAL 157.12 TAP 260.33 RCA 76.00 APO 153.26 V2 35.184
 RC 45.742 GL 11.48 GP -.25 ZAL 48.23 ZAP 5.12 ETS 178.24 ZAE 155.28 ETE 207.36 ZAC 97.70 ETC 166.66 CLP 5.11

PLANETOCENTRIC CONIC
 C3 55.560 VHL 7.454 DLA 21.37 RAL 21.41 RAD 6569.0 VEL 13.301 PTH 2.43 VHP 12.229 DPA -1.89 RAP 4.43 ECC 1.9144
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 37 30 3205.72 -26.01 111.14 269.93 78.40 5 30 55 2605.7 -27.35 102.73
 90.00 22 46 59 4375.45 5.67 181.80 258.59 62.21 23 59 55 3775.5 1.91 175.14
 100.00 6 13 29 2896.23 -28.08 88.83 270.39 79.30 7 1 45 2296.2 -29.27 80.23
 100.00 23 53 42 4160.18 7.52 164.97 257.58 60.98 25 3 2 3560.2 3.60 158.38
 110.00 7 52 30 2586.42 -33.25 66.32 271.40 81.55 8 35 37 1986.4 -34.06 57.17
 110.00 0 35 5 4042.75 12.03 153.36 254.88 57.76 1 42 28 3442.8 7.69 146.95

DIFFERENTIAL CORRECTIONS
 TOE -.9302 TRA-2.1331 TC3 -.1977 BAU .1566
 RDE -.4962 RRA .1718 RC3 -.0733 FAU .01861
 FDE .8569 FRA 1.4230 FC3 -.2900 BSP 6156
 BOE 1.0543 BRA 2.1400 BC3 .2108 FSP -330

MID-COURSE EXECUTION ACCURACY
 SGT 1923.0 SGR 421.3 SG3 122.2
 RRT .0682 RRF -.0628 RTF -.8867
 SGB 1968.7 R23 .0007 R13 -.8867
 SG1 1923.3 SG2 420.3 THA .90

ORBIT DETERMINATION ACCURACY
 ST 889.0 SR 383.8 SS 789.4
 CRT .7335 CRS .8237 CST .9891
 LSA 1224.0 MSA 249.8 SSA 16.4
 EL1 936.1 EL2 247.7 ALF 18.95

LAUNCH DATE DEC 7 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC
 RL 147.36 LAL -.00 LOL 74.96 VL 25.574 GAL 10.28 AZL 86.58 MCA 106.44 SMA 115.69 ECC .32316 INC 3.4182 V1 30.233
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.284 GAP -18.45 AZP 90.97 TAL 156.75 TAP 263.19 RCA 78.30 APO 153.08 V2 35.174
 RC 44.782 GL 12.08 GP -.26 ZAL 48.02 ZAP 3.71 ETS 177.03 ZAE 157.53 ETE 210.50 ZAC 99.48 ETC 166.71 CLP 3.70

PLANETOCENTRIC CONIC
 C3 51.400 VHL 7.169 DLA 22.05 RAL 21.49 RAD 6568.9 VEL 13.144 PTH 2.40 VHP 11.692 DPA -1.15 RAP 6.10 ECC 1.8459
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 29 11 3217.66 -25.85 111.96 268.73 78.01 5 22 49 2617.7 -27.24 103.59
 90.00 22 55 58 4324.99 4.06 178.96 257.79 61.95 24 8 3 3725.0 .28 172.32
 100.00 6 6 14 2904.70 -27.97 89.44 269.22 79.00 6 54 39 2304.7 -29.20 80.85
 100.00 0 5 31 4113.18 5.96 162.35 256.75 60.65 1 14 4 3513.2 2.01 155.80
 110.00 7 47 8 2589.06 -33.22 66.52 270.27 81.43 8 30 17 1989.1 -34.05 57.37
 110.00 0 41 7 4001.58 10.53 151.12 253.98 57.29 1 47 49 3401.6 6.14 144.77

DIFFERENTIAL CORRECTIONS
 TOE -.9384 TRA-2.1179 TC3 -.1891 BAU .1404
 RDE -.4667 RRA .1550 RC3 -.0776 FAU .01952
 FDE .9043 FRA 1.4782 FC3 -.3288 BSP 6400
 BOE 1.0480 BRA 2.1236 BC3 .2044 FSP -362

MID-COURSE EXECUTION ACCURACY
 SGT 1992.7 SGR 411.5 SG3 133.0
 RRT .0803 RRF -.0739 RTF -.8939
 SGB 2034.7 R23 .0011 R13 -.8939
 SG1 1993.0 SG2 410.1 THA .99

ORBIT DETERMINATION ACCURACY
 ST 928.8 SR 375.1 SS 826.0
 CRT .7399 CRS .8286 CST .9893
 LSA 1275.0 MSA 244.4 SSA 16.4
 EL1 972.2 EL2 241.1 ALF 17.76

LAUNCH DATE DEC 7 1968

FLIGHT TIME 114.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC
 RL 147.36 LAL -.00 LOL 74.96 VL 25.769 GAL 9.83 AZL 86.58 MCA 109.68 SMA 116.71 ECC .31003 INC 3.4235 V1 30.233
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.412 GAP -17.54 AZP 91.15 TAL 156.42 TAP 266.09 RCA 80.53 APO 152.90 V2 35.164
 RC 43.971 GL 12.69 GP -.28 ZAL 47.86 ZAP 2.29 ETS 174.11 ZAE 159.83 ETE 214.40 ZAC 101.23 ETC 166.74 CLP 2.28

PLANETOCENTRIC CONIC
 C3 47.608 VHL 6.900 DLA 22.72 RAL 21.52 RAD 6568.8 VEL 12.999 PTH 2.37 VHP 11.171 DPA -.42 RAP 7.75 ECC 1.7835
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 20 13 3231.00 -25.66 112.91 267.47 77.59 5 14 4 2631.0 -27.11 104.54
 90.00 23 5 9 4273.41 2.41 176.08 257.00 61.78 24 16 23 3673.4 -1.39 169.45
 100.00 5 58 30 2914.13 -27.85 90.11 267.99 78.67 6 47 4 2314.1 -29.13 81.54
 100.00 0 13 30 4065.51 4.37 159.71 255.91 60.40 1 21 16 3465.5 .39 153.18
 110.00 7 41 25 2592.16 -33.19 66.75 269.08 81.30 8 24 37 1992.2 -34.03 57.62
 110.00 0 47 5 3960.25 9.00 148.90 253.07 56.88 1 53 5 3360.2 4.58 142.60

DIFFERENTIAL CORRECTIONS
 TOE -.9473 TRA-2.1004 TC3 -.1780 BAU .1246
 RDE -.4381 RRA .1389 RC3 -.0817 FAU .02053
 FDE .9565 FRA 1.5372 FC3 -.3734 BSP 6642
 BOE 1.0437 BRA 2.1050 BC3 .1958 FSP -398

MID-COURSE EXECUTION ACCURACY
 SGT 2062.7 SGR 400.8 SG3 144.9
 RRT .0936 RRF -.0860 RTF -.9007
 SGB 2101.3 R23 .0016 R13 -.9007
 SG1 2063.0 SG2 399.0 THA 1.08

ORBIT DETERMINATION ACCURACY
 ST 969.9 SR 365.7 SS 865.1
 CRT .7468 CRS .8337 CST .9895
 LSA 1328.8 MSA 238.5 SSA 16.4
 EL1 1009.9 EL2 233.6 ALF 16.64

LAUNCH DATE DEC 7 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC
 RL 147.36 LAL -.00 LOL 74.96 VL 25.951 GAL 9.40 AZL 86.57 MCA 112.91 SMA 117.68 ECC .29761 INC 3.4291 V1 30.233
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.530 GAP -16.65 AZP 91.34 TAL 156.12 TAP 269.03 RCA 82.66 APO 152.71 V2 35.153
 RC 43.319 GL 13.32 GP -.30 ZAL 47.76 ZAP .88 ETS 161.01 ZAE 162.12 ETE 219.34 ZAC 102.96 ETC 166.76 CLP .83

PLANETOCENTRIC CONIC
 C3 44.155 VHL 6.645 DLA 23.39 RAL 21.50 RAD 6568.7 VEL 12.865 PTH 2.34 VHP 10.667 DPA .30 RAP 9.38 ECC 1.7267
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 33 3246.05 -25.43 113.95 266.15 77.11 5 4 39 2646.1 -26.95 105.62
 90.00 23 14 39 4220.55 .70 173.13 256.21 61.69 24 25 0 3620.5 -3.09 166.50
 100.00 5 50 12 2924.71 -27.70 90.87 266.71 78.30 6 38 57 2324.7 -29.04 82.32
 100.00 0 21 37 4017.12 2.73 157.05 255.08 60.22 1 28 34 3417.1 -1.25 150.53
 110.00 7 35 20 2595.81 -33.15 67.03 267.85 81.14 8 18 36 1995.8 -34.02 57.90
 110.00 0 52 58 3918.79 7.45 146.69 252.17 56.54 1 58 17 3318.8 3.00 140.43

DIFFERENTIAL CORRECTIONS
 TOE -.9573 TRA-2.0807 TC3 -.1640 BAU .1092
 RDE -.4104 RRA .1236 RC3 -.0856 FAU .02166
 FDE 1.0141 FRA 1.6007 FC3 -.4246 BSP 6872
 BOE 1.0416 BRA 2.0844 BC3 .1890 FSP -437

MID-COURSE EXECUTION ACCURACY
 SGT 2133.1 SGR 389.5 SG3 158.0
 RRT .1082 RRF -.0991 RTF -.9071
 SGB 2168.3 R23 .0024 R13 -.9071
 SG1 2133.5 SG2 387.1 THA 1.17

ORBIT DETERMINATION ACCURACY
 ST 1012.6 SR 355.6 SS 906.9
 CRT .7545 CRS .8392 CST .9897
 LSA 1385.7 MSA 231.9 SSA 16.4
 EL1 1049.3 EL2 225.2 ALF 15.58

LAUNCH DATE DEC 7 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -.00 LOL 74.96 VL 26.120 GAL 8.98 AZL 86.57 HCA 116.13 SMA 118.61 ECC .28587 INC 3.4349 V1 30.233
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.640 GAP -15.79 AZP 91.51 TAL 155.87 TAP 272.01 RCA 84.70 APO 152.52 V2 35.141
 RC 42.834 GL 13.97 GP -.33 ZAL 47.72 ZAP .73 ETS 28.30 ZAE 164.33 ETE 225.71 ZAC 104.66 ETC 166.76 CLP -.65

PLANETOCENTRIC CONIC

C3 41.012 VHL 6.404 OLA 24.06 RAL 21.42 RAD 6568.6 VEL 12.743 PTH 2.32 VHP 10.179 DPA 1.00 RAP 10.98 ECC 1.6750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 0 2 3263.22 -25.16 115.14 264.78 76.57 4 54 26 2663.2 -26.77 106.84
 90.00 23 24 34 4166.16 -1.05 170.09 255.43 61.70 24 34 0 3566.2 -4.83 163.45
 100.00 5 41 20 2936.66 -27.53 91.71 265.38 77.88 6 30 16 2336.7 -28.93 83.19
 100.00 0 29 54 3967.96 1.07 154.35 254.25 60.12 1 36 2 3368.0 -2.91 147.83
 110.00 7 28 54 2600.10 -33.10 67.36 266.58 80.95 8 12 14 2000.1 -34.00 58.23
 110.00 0 58 49 3877.28 5.89 144.49 251.26 56.27 2 3 26 3277.3 1.41 138.26

DIFFERENTIAL CORRECTIONS

TOE -.9655 TRA-2.0577 TC3 -.1459 BAU .0938
 ROE -.3837 RRA .1092 RC3 -.0893 FAU .02291
 FOE 1.0779 FRA 1.6692 FC3 -.4836 BSP 7136
 BOE 1.0389 BRA 2.0606 BC3 .1711 FSP -481

MID-COURSE EXECUTION ACCURACY

SGT 2201.4 SGR 377.3 SG3 172.6
 RRT .1230 RRF -.1132 RTF -.9132
 SGB 2233.5 R23 .0025 R13 -.9132
 SGI 2201.9 SG2 374.4 THA 1.24

ORBIT DETERMINATION ACCURACY

ST 1054.5 SR 344.8 SS 951.8
 CRT .7622 CRS .8449 CST .9899
 LSA 1444.2 MSA 225.3 SSA 16.3
 EL1 1088.2 EL2 216.3 ALF 14.58

LAUNCH DATE DEC 7 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -.00 LOL 74.96 VL 26.278 GAL 8.59 AZL 86.56 HCA 119.36 SMA 119.49 ECC .27480 INC 3.4410 V1 30.233
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.741 GAP -14.97 AZP 91.69 TAL 155.66 TAP 275.02 RCA 86.66 APO 152.33 V2 35.129
 RC 42.524 GL 14.62 GP -.36 ZAL 47.73 ZAP 2.19 ETS 10.92 ZAE 166.35 ETE 234.01 ZAC 106.33 ETC 166.75 CLP -2.16

PLANETOCENTRIC CONIC

C3 38.156 VHL 6.177 OLA 24.72 RAL 21.30 RAD 6568.5 VEL 12.630 PTH 2.29 VHP 9.707 DPA 1.68 RAP 12.56 ECC 1.6279
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 48 35 3283.03 -24.84 116.50 263.35 75.96 4 43 18 2683.0 -26.53 108.24
 90.00 23 35 2 4109.88 -2.87 166.95 254.68 61.82 24 43 32 3509.9 -6.61 160.28
 100.00 5 31 48 2950.23 -27.34 92.67 264.01 77.41 6 20 58 2350.2 -28.80 84.18
 100.00 0 38 26 3917.92 -.63 151.60 253.44 60.11 1 43 44 3317.9 -4.60 145.07
 110.00 7 22 6 2605.15 -33.05 67.74 265.28 80.73 8 5 31 2005.2 -33.98 58.63
 110.00 1 4 37 3835.75 4.31 142.30 250.36 56.06 2 8 33 3235.8 -.17 136.09

DIFFERENTIAL CORRECTIONS

TOE -.9765 TRA-2.0338 TC3 -.1251 BAU .0794
 ROE -.3580 RRA .0956 RC3 -.0926 FAU .02430
 FOE 1.1490 FRA 1.7434 FC3 -.5515 BSP 7375
 BOE 1.0400 BRA 2.0360 BC3 .1556 FSP -529

MID-COURSE EXECUTION ACCURACY

SGT 2271.0 SGR 364.5 SG3 188.7
 RRT .1399 RRF -.1284 RTF -.9189
 SGB 2300.1 R23 .0034 R13 -.9189
 SGI 2271.6 SG2 360.8 THA 1.32

ORBIT DETERMINATION ACCURACY

ST 1099.3 SR 333.4 SS 1000.0
 CRT .7709 CRS .8509 CST .9903
 LSA 1507.3 MSA 218.0 SSA 16.2
 EL1 1130.1 EL2 206.6 ALF 13.62

LAUNCH DATE DEC 7 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -.00 LOL 74.96 VL 26.424 GAL 8.22 AZL 86.55 HCA 122.58 SMA 120.33 ECC .26438 INC 3.4475 V1 30.233
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.834 GAP -14.17 AZP 91.86 TAL 155.49 TAP 278.07 RCA 88.51 APO 152.14 V2 35.117
 RC 42.392 GL 15.29 GP -.39 ZAL 47.78 ZAP 3.72 ETS 7.60 ZAE 168.05 ETE 244.79 ZAC 107.96 ETC 166.73 CLP -3.70

PLANETOCENTRIC CONIC

C3 35.561 VHL 5.963 OLA 25.38 RAL 21.13 RAD 6568.4 VEL 12.527 PTH 2.27 VHP 9.251 DPA 2.34 RAP 14.11 ECC 1.5852
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 35 57 3306.20 -24.45 118.09 261.86 75.26 4 31 3 2706.2 -26.24 109.88
 90.00 23 46 17 4051.12 -4.75 163.66 253.96 62.05 24 53 48 3451.1 -8.45 156.94
 100.00 5 21 33 2965.73 -27.10 93.77 262.59 76.88 6 10 59 2365.7 -28.64 85.30
 100.00 0 47 17 3866.82 -2.36 148.80 252.64 60.19 1 51 44 3266.8 -6.31 142.24
 110.00 7 14 55 2611.05 -32.98 68.19 263.95 80.47 7 58 26 2011.0 -33.95 59.08
 110.00 1 10 25 3794.27 2.73 140.13 249.47 55.91 2 13 39 3194.3 -1.76 133.93

DIFFERENTIAL CORRECTIONS

TOE -.9868 TRA-2.0073 TC3 -.1007 BAU .0660
 ROE -.3332 RRA .0828 RC3 -.0954 FAU .02586
 FOE 1.2280 FRA 1.8240 FC3 -.6297 BSP 7609
 BOE 1.0416 BRA 2.0090 BC3 .1387 FSP -584

MID-COURSE EXECUTION ACCURACY

SGT 2338.9 SGR 351.0 SG3 206.6
 RRT .1574 RRF -.1447 RTF -.9242
 SGB 2365.1 R23 .0041 R13 -.9242
 SGI 2339.5 SG2 346.5 THA 1.38

ORBIT DETERMINATION ACCURACY

ST 1144.2 SR 321.3 SS 1051.7
 CRT .7798 CRS .8571 CST .9906
 LSA 1572.8 MSA 210.6 SSA 16.1
 EL1 1172.1 EL2 196.3 ALF 12.71

LAUNCH DATE DEC 7 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

RL 147.36 LAL -.00 LOL 74.96 VL 26.560 GAL 7.86 AZL 86.55 HCA 125.80 SMA 121.12 ECC .25458 INC 3.4545 V1 30.233
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.920 GAP -13.39 AZP 92.02 TAL 155.35 TAP 281.15 RCA 90.28 APO 151.95 V2 35.105
 RC 42.442 GL 15.97 GP -.43 ZAL 47.89 ZAP 5.30 ETS 6.29 ZAE 169.24 ETE 258.20 ZAC 109.55 ETC 166.69 CLP -5.29

PLANETOCENTRIC CONIC

C3 33.206 VHL 5.762 OLA 26.03 RAL 20.90 RAD 6568.3 VEL 12.433 PTH 2.25 VHP 8.810 DPA 2.98 RAP 15.61 ECC 1.5465
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 49 3333.86 -23.96 119.97 260.32 74.44 4 17 23 2733.9 -25.87 111.81
 90.00 0 2 34 3988.88 -6.72 160.15 253.29 62.43 1 9 3 3388.9 -10.37 153.36
 100.00 5 10 29 2983.57 -26.82 95.02 261.14 76.28 6 0 12 2383.6 -28.44 86.59
 100.00 0 56 35 3814.41 -4.13 145.91 251.87 60.37 2 0 10 3214.4 -8.04 139.32
 110.00 7 7 21 2617.88 -32.91 68.71 262.61 80.17 7 50 59 2017.9 -33.91 59.62
 110.00 1 16 12 3752.86 1.15 137.97 248.58 55.83 2 18 45 3152.9 -3.34 131.76

DIFFERENTIAL CORRECTIONS

TOE -.9954 TRA-1.9763 TC3 -.0704 BAU .0535
 ROE -.3093 RRA .0710 RC3 -.0978 FAU .02764
 FOE 1.3154 FRA 1.9110 FC3 -.7207 BSP 7892
 BOE 1.0423 BRA 1.9776 BC3 .1205 FSP -646

MID-COURSE EXECUTION ACCURACY

SGT 2401.8 SGR 336.8 SG3 226.5
 RRT .1752 RRF -.1614 RTF -.9294
 SGB 2425.3 R23 .0046 R13 -.9293
 SGI 2402.5 SG2 331.5 THA 1.43

ORBIT DETERMINATION ACCURACY

ST 1187.4 SR 308.4 SS 1106.7
 CRT .7888 CRS .8834 CST .9909
 LSA 1639.6 MSA 203.2 SSA 15.9
 EL1 1212.7 EL2 185.6 ALF 11.86

LAUNCH DATE DEC 7 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 312.385

RL 147.36 LAL -.00 LOL 74.96 VL 26.685 GAL 7.53 AZL 86.54 MCA 129.02 SMA 121.86 ECC .24540 INC 3.4620 V1 30.233
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.998 GAP -12.64 AZP 92.18 TAL 155.25 TAP 284.27 RCA 91.96 APO 151.77 V2 35.092
 RC 42.671 GL 16.65 GP -.47 ZAL 48.05 ZAP 6.93 ETS 5.63 ZAE 169.77 ETE 273.46 ZAC 111.09 ETC 166.65 CLP -6.92

PLANETOCENTRIC CONIC

C3 31.073 VHL 5.574 DLA 26.68 RAL 20.64 RAD 6568.2 VEL 12.347 PTH 2.23 VHP 8.384 DPA 3.59 RAP 17.08 ECC 1.5114
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 5 37 3367.96 -23.32 122.26 258.69 73.46 4 1 45 2768.0 -25.36 114.19
 90.00 0 16 38 3921.35 -8.83 156.31 252.69 62.99 1 21 59 3321.3 -12.39 149.43
 100.00 4 58 26 3004.26 -26.48 96.46 259.66 75.59 5 48 31 2404.3 -28.20 88.08
 100.00 1 6 30 3760.28 -5.94 142.92 251.13 60.65 2 9 10 3160.3 -9.81 136.27
 110.00 6 59 24 2625.76 -32.81 69.30 261.24 79.83 7 43 10 2025.8 -33.87 60.23
 110.00 1 22 1 3711.55 -.43 135.82 247.71 55.82 2 23 53 3111.5 -4.91 129.60

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0068 TRA-1.9456 TC3 -.0393 BAU .0445 SGT 2466.1 SGR 322.0 SG3 248.8 ST 1233.6 SR 295.0 SS 1167.0
 RDE -.2863 RRA .0600 RC3 -.0996 FAU .02958 RRT .1951 RRF -.1795 RTF -.9340 CRT .7986 CRS .8700 CST .9913
 FDE 1.4148 FRA 2.0075 FC3 -.8243 BSP 8105 SGB 2487.0 R23 .0058 R13 -.9340 LSA 1712.4 MSA 195.5 SSA 15.6
 BDE 1.0467 BRA 1.9466 BC3 .1071 FSP -713 SGI 2466.9 SG2 315.7 THA 1.48 EL1 1256.3 EL2 174.3 ALF 11.03

LAUNCH DATE DEC 7 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 319.154

RL 147.36 LAL -.00 LOL 74.96 VL 26.802 GAL 7.21 AZL 86.53 MCA 132.24 SMA 122.56 ECC .23680 INC 3.4703 V1 30.233
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.070 GAP -11.91 AZP 92.33 TAL 155.19 TAP 287.43 RCA 93.54 APO 151.59 V2 35.080
 RC 43.078 GL 17.35 GP -.52 ZAL 48.24 ZAP 8.62 ETS 5.27 ZAE 169.61 ETE 288.64 ZAC 112.58 ETC 166.60 CLP -8.60

PLANETOCENTRIC CONIC

C3 29.142 VHL 5.398 DLA 27.31 RAL 20.33 RAD 6568.2 VEL 12.269 PTH 2.21 VHP 7.973 DPA 4.17 RAP 18.50 ECC 1.4796
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 46 5 3412.61 -22.42 125.22 256.95 72.24 3 42 58 2812.6 -24.64 117.26
 90.00 0 33 41 3844.52 -11.18 151.88 252.22 63.81 1 37 45 3244.5 -14.61 144.89
 100.00 4 45 13 3028.61 -26.05 98.15 258.13 74.80 5 35 41 2428.6 -27.89 89.82
 100.00 1 17 15 3703.76 -7.82 139.77 250.44 61.06 2 18 59 3103.8 -11.62 133.05
 110.00 6 51 4 2634.77 -32.70 69.98 259.87 79.44 7 34 59 2034.8 -33.81 60.92
 110.00 1 27 53 3670.36 -2.01 133.67 246.86 55.87 2 29 3 3070.4 -6.47 127.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0181 TRA-1.9130 TC3 -.0050 BAU .0393 SGT 2527.7 SGR 306.5 SG3 273.7 ST 1279.7 SR 280.8 SS 1232.2
 RDE -.2640 RRA .0500 RC3 -.1008 FAU .03175 RRT .2156 RRF -.1983 RTF -.9384 CRT .8085 CRS .8767 CST .9917
 FDE 1.5265 FRA 2.1136 FC3 -.9432 BSP 8307 SGB 2546.2 R23 .0071 R13 -.9384 LSA 1788.6 MSA 187.9 SSA 15.3
 BDE 1.0518 BRA 1.9136 BC3 .1009 FSP -788 SGI 2528.6 SG2 299.2 THA 1.52 EL1 1300.0 EL2 162.7 ALF 10.22

LAUNCH DATE DEC 7 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 325.912

RL 147.36 LAL -.00 LOL 74.96 VL 26.910 GAL 6.92 AZL 86.52 MCA 135.45 SMA 123.22 ECC .22877 INC 3.4795 V1 30.233
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.136 GAP -11.21 AZP 92.48 TAL 155.16 TAP 290.61 RCA 95.03 APO 151.41 V2 35.067
 RC 43.658 GL 18.04 GP -.58 ZAL 48.48 ZAP 10.37 ETS 5.08 ZAE 168.86 ETE 301.86 ZAC 114.01 ETC 166.55 CLP -10.35

PLANETOCENTRIC CONIC

C3 27.397 VHL 5.234 DLA 27.94 RAL 19.98 RAD 6568.1 VEL 12.197 PTH 2.19 VHP 7.576 DPA 4.71 RAP 19.87 ECC 1.4509
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 19 13 3480.82 -20.94 129.67 254.95 70.49 3 17 14 2880.8 -23.41 121.87
 90.00 0 57 46 3745.50 -14.08 146.06 252.02 65.18 2 0 11 3145.5 -17.31 138.88
 100.00 4 30 25 3057.88 -25.52 100.15 256.55 73.88 5 21 22 2457.9 -27.48 91.90
 100.00 1 29 15 3643.67 -9.78 136.39 249.82 61.61 2 29 59 3043.7 -13.50 129.58
 110.00 6 42 19 2645.04 -32.57 70.76 258.49 79.00 7 26 24 2045.0 -33.74 61.72
 110.00 1 33 50 3629.28 -3.57 131.52 246.04 55.98 2 34 19 3029.3 -8.01 125.25

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0290 TRA-1.8779 TC3 .0323 BAU .0390 SGT 2585.3 SGR 290.3 SG3 301.6 ST 1325.1 SR 265.9 SS 1302.6
 RDE -.2425 RRA .0409 RC3 -.1014 FAU .03419 RRT .2366 RRF -.2172 RTF -.9424 CRT .8185 CRS .8834 CST .9921
 FDE 1.6523 FRA 2.2304 FC3 -1.0803 BSP 8501 SGB 2601.6 R23 .0087 R13 -.9424 LSA 1868.3 MSA 180.4 SSA 14.9
 BDE 1.0572 BRA 1.8784 BC3 .1064 FSP -873 SGI 2586.2 SG2 282.0 THA 1.54 EL1 1343.1 EL2 150.7 ALF 9.45

LAUNCH DATE DEC 7 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 332.657

RL 147.36 LAL -.00 LOL 74.96 VL 27.009 GAL 6.64 AZL 86.51 MCA 138.66 SMA 123.84 ECC .22129 INC 3.4898 V1 30.233
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.195 GAP -10.53 AZP 92.62 TAL 155.16 TAP 293.82 RCA 96.43 APO 151.24 V2 35.053
 RC 44.405 GL 18.75 GP -.66 ZAL 48.75 ZAP 12.19 ETS 4.99 ZAE 167.75 ETE 312.37 ZAC 115.37 ETC 166.49 CLP -12.17

PLANETOCENTRIC CONIC

C3 25.823 VHL 5.082 DLA 28.55 RAL 19.59 RAD 6568.0 VEL 12.133 PTH 2.17 VHP 7.193 DPA 5.20 RAP 21.18 ECC 1.4250
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.17 1 5 1 3701.89 -18.23 144.76 252.35 67.64 2 6 43 3101.9 -21.11 137.25
 93.83 2 8 52 3495.07 -18.22 129.61 252.35 67.63 3 7 7 2895.1 -21.09 122.10
 100.00 4 13 19 3094.45 -24.80 102.64 254.89 72.76 5 4 53 2494.4 -26.93 94.48
 100.00 1 43 15 3577.75 -11.89 132.63 249.29 62.37 2 42 53 2977.7 -15.50 125.70
 110.00 6 33 9 2656.70 -32.42 71.63 257.11 78.51 7 17 25 2056.7 -33.66 62.62
 110.00 1 39 54 3588.26 -5.13 129.37 245.23 56.16 2 39 43 2988.3 -9.54 123.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0366 TRA-1.8381 TC3 .0761 BAU .0437 SGT 2634.2 SGR 273.4 SG3 332.8 ST 1366.4 SR 250.1 SS 1377.5
 RDE -.2215 RRA .0329 RC3 -.1011 FAU .03699 RRT .2560 RRF -.2350 RTF -.9463 CRT .8279 CRS .8898 CST .9924
 FDE 1.7928 FRA 2.3581 FC3 -1.2400 BSP 8733 SGB 2648.3 R23 .0100 R13 -.9463 LSA 1948.5 MSA 173.4 SSA 14.3
 BDE 1.0600 BRA 1.8384 BC3 .1265 FSP -970 SGI 2635.1 SG2 264.2 THA 1.54 EL1 1382.1 EL2 138.7 ALF 8.71

LAUNCH DATE DEC 7 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 339.388
 RL 147.36 LAL -.00 LOL 74.96 VL 27.100 GAL 6.37 AZL 86.50 MCA 141.87 SMA 124.41 ECC .21434 INC 3.5015 V1 30.233
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.249 GAP -9.87 AZP 92.76 TAL 155.19 TAP 297.06 RCA 97.74 APO 151.08 V2 35.040
 RC 45.309 GL 19.45 GP -.74 ZAL 49.06 ZAP 14.09 ETS 4.97 ZAE 166.47 ETE 320.36 ZAC 116.66 ETC 166.44 CLP -14.07

PLANETOCENTRIC CONIC

C3 24.406 VHL 4.940 DLA 29.16 RAL 19.17 RAD 6568.0 VEL 12.074 PTH 2.16 VHP 6.825 DPA 5.65 RAP 22.42 ECC 1.4017
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.73 0 35 20 3778.34 -18.96 150.70 251.17 67.43 1 38 18 3178.3 -21.86 143.16
 97.27 2 35 11 3390.81 -18.95 122.27 251.16 67.42 3 31 42 2790.8 -21.85 114.73
 100.00 3 52 9 3143.96 -23.76 105.95 253.11 71.31 4 44 33 2544.0 -26.09 97.92
 100.00 2 1 2 3500.43 -14.29 128.14 248.94 63.46 2 59 23 2900.4 -17.74 121.05
 110.00 6 23 31 2669.92 -32.23 72.62 255.74 77.95 7 8 1 2069.9 -33.56 63.64
 110.00 1 46 10 3547.23 -6.68 127.20 244.47 56.40 2 45 17 2947.2 -11.05 120.84

DIFFERENTIAL CORRECTIONS

TDE-1.0465 TRA-1.7989 TC3 .1172 BAU .0504
 RDE -.2011 RRA .0259 RC3 -.1004 FAU .04004
 FDE 1.9543 FRA 2.5019 FC3-1.4203 BSP 8873
 BOE 1.0656 BRA 1.7991 BC3 .1543 FSP -1076

MID-COURSE EXECUTION ACCURACY

SGT 2682.2 SGR 255.8 SG3 368.1
 RRT .2759 RRF -.2523 RTF -.9497
 SGB 2694.4 R23 .0124 R13 -.9497
 SGI 2683.2 SG2 245.7 TMA 1.52

ORBIT DETERMINATION ACCURACY

ST 1409.5 SR 233.4 SS 1460.3
 CRT .8376 CRS .8962 CST .9928
 LSA 2036.1 MSA 166.6 SSA 13.8
 EL1 1423.1 EL2 126.3 ALF 7.96

LAUNCH DATE DEC 7 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 346.103
 RL 147.36 LAL -.00 LOL 74.96 VL 27.184 GAL 6.13 AZL 86.49 MCA 145.08 SMA 124.95 ECC .20789 INC 3.5150 V1 30.233
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.298 GAP -9.22 AZP 92.88 TAL 155.24 TAP 300.32 RCA 98.97 APO 150.92 V2 35.027
 RC 46.364 GL 20.15 GP -.85 ZAL 49.39 ZAP 16.08 ETS 5.01 ZAE 165.17 ETE 326.36 ZAC 117.86 ETC 166.40 CLP -16.06

PLANETOCENTRIC CONIC

C3 23.134 VHL 4.810 DLA 29.76 RAL 18.71 RAD 6567.9 VEL 12.021 PTH 2.15 VHP 6.470 DPA 6.04 RAP 23.58 ECC 1.3807
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.45 0 15 39 3822.52 -19.68 154.29 250.01 67.22 1 19 22 3222.5 -22.59 146.71
 99.55 2 51 15 3320.44 -19.66 117.37 250.00 67.21 3 46 35 2720.4 -22.58 109.80
 100.00 3 18 46 3232.48 -21.71 111.72 250.88 66.93 4 12 39 2632.5 -24.38 103.94
 100.00 2 30 49 3385.71 -17.66 121.29 249.08 65.48 3 27 15 2785.7 -20.82 113.93
 110.00 6 13 23 2684.93 -32.01 73.73 254.38 77.32 6 58 8 2084.9 -33.43 64.79
 110.00 1 52 42 3506.02 -8.23 125.02 243.74 56.70 2 51 8 2906.0 -12.55 118.59

DIFFERENTIAL CORRECTIONS

TDE-1.0528 TRA-1.7590 TC3 .1631 BAU .0590
 RDE -.1808 RRA .0202 RC3 -.0991 FAU .04355
 FDE 2.1361 FRA 2.6600 FC3-1.6298 BSP 9055
 BOE 1.0682 BRA 1.7551 BC3 .1909 FSP -1200

MID-COURSE EXECUTION ACCURACY

SGT 2719.7 SGR 237.2 SG3 407.6
 RRT .2919 RRF -.2656 RTF -.9530
 SGB 2730.0 R23 .0151 R13 -.9530
 SGI 2720.5 SG2 226.8 TMA 1.47

ORBIT DETERMINATION ACCURACY

ST 1447.3 SR 215.6 SS 1548.8
 CRT .8464 CRS .9022 CST .9932
 LSA 2124.6 MSA 160.4 SSA 13.0
 EL1 1458.9 EL2 113.9 ALF 7.23

LAUNCH DATE DEC 7 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 352.800
 RL 147.36 LAL -.00 LOL 74.96 VL 27.262 GAL 5.90 AZL 86.47 MCA 148.28 SMA 125.44 ECC .20193 INC 3.5308 V1 30.233
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.342 GAP -8.60 AZP 93.00 TAL 155.32 TAP 303.60 RCA 100.11 APO 150.77 V2 35.013
 RC 47.558 GL 20.86 GP -.98 ZAL 49.75 ZAP 18.18 ETS 5.10 ZAE 163.95 ETE 330.84 ZAC 118.97 ETC 166.37 CLP -18.15

PLANETOCENTRIC CONIC

C3 21.995 VHL 4.690 DLA 30.34 RAL 18.23 RAD 6567.9 VEL 11.974 PTH 2.13 VHP 6.129 DPA 6.37 RAP 24.66 ECC 1.3620
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.61 23 55 54 3854.59 -20.37 156.99 248.88 67.01 25 0 9 3254.6 -23.31 149.38
 101.39 3 3 14 3263.86 -20.36 113.47 248.87 67.00 3 57 38 2663.9 -23.30 105.87
 78.61 23 55 54 3854.59 -20.37 156.99 248.88 67.01 25 0 9 3254.6 -23.31 149.38
 101.39 3 3 14 3263.86 -20.36 113.47 248.87 67.00 3 57 38 2663.9 -23.30 105.87
 110.00 6 2 39 2702.08 -31.75 75.00 253.03 76.61 6 47 41 2102.1 -33.26 66.10
 110.00 1 59 36 3464.37 -9.78 122.78 243.07 57.08 2 57 20 2864.4 -14.05 116.29

DIFFERENTIAL CORRECTIONS

TDE-1.0504 TRA-1.7018 TC3 .2216 BAU .0711
 RDE -.1603 RRA .0161 RC3 -.0970 FAU .04780
 FDE 2.3362 FRA 2.8296 FC3-1.8812 BSP 9351
 BOE 1.0626 BRA 1.7019 BC3 .2419 FSP -1351

MID-COURSE EXECUTION ACCURACY

SGT 2737.5 SGR 217.2 SG3 451.5
 RRT .2985 RRF -.2706 RTF -.9563
 SGB 2746.1 R23 .0173 R13 -.9563
 SGI 2738.2 SG2 207.2 TMA 1.36

ORBIT DETERMINATION ACCURACY

ST 1472.8 SR 196.0 SS 1640.1
 CRT .8535 CRS .9071 CST .9934
 LSA 2207.6 MSA 155.1 SSA 12.1
 EL1 1482.3 EL2 101.5 ALF 6.51

LAUNCH DATE DEC 7 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 359.479
 RL 147.36 LAL -.00 LOL 74.96 VL 27.332 GAL 5.68 AZL 86.45 MCA 151.48 SMA 125.90 ECC .19643 INC 3.5496 V1 30.233
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.381 GAP -8.00 AZP 93.12 TAL 155.41 TAP 306.90 RCA 101.17 APO 150.63 V2 35.000
 RC 48.883 GL 21.57 GP -1.14 ZAL 50.14 ZAP 20.39 ETS 5.23 ZAE 162.88 ETE 334.18 ZAC 119.97 ETC 166.37 CLP -20.36

PLANETOCENTRIC CONIC

C3 20.981 VHL 4.581 DLA 30.93 RAL 17.73 RAD 6567.9 VEL 11.932 PTH 2.12 VHP 5.802 DPA 6.61 RAP 25.64 ECC 1.3453
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.01 23 42 12 3880.23 -21.05 159.21 247.78 66.80 24 46 53 3280.2 -24.01 151.58
 102.99 3 12 54 3215.47 -21.04 110.16 247.78 66.79 4 6 29 2615.5 -24.00 102.53
 77.01 23 42 12 3880.23 -21.05 159.21 247.78 66.80 24 46 53 3280.2 -24.01 151.58
 102.99 3 12 54 3215.47 -21.04 110.16 247.78 66.79 4 6 29 2615.5 -24.00 102.53
 110.00 5 51 10 2721.88 -31.43 76.46 251.69 75.81 6 36 32 2121.9 -33.06 67.61
 110.00 2 7 2 3421.82 -11.34 120.48 242.45 57.54 3 4 4 2821.8 -15.55 113.90

DIFFERENTIAL CORRECTIONS

TDE-1.0443 TRA-1.6438 TC3 .2828 BAU .0837
 RDE -.1395 RRA .0136 RC3 -.0948 FAU .05265
 FDE 2.5632 FRA 3.0161 FC3-2.1725 BSP 9657
 BOE 1.0536 BRA 1.6438 BC3 .2983 FSP -1527

MID-COURSE EXECUTION ACCURACY

SGT 2742.0 SGR 195.9 SG3 500.7
 RRT .2937 RRF -.2635 RTF -.9594
 SGB 2749.0 R23 .0205 R13 -.9594
 SGI 2742.6 SG2 187.2 TMA 1.21

ORBIT DETERMINATION ACCURACY

ST 1491.1 SR 174.6 SS 1738.2
 CRT .8589 CRS .9107 CST .9936
 LSA 2291.8 MSA 150.5 SSA 11.0
 EL1 1498.7 EL2 89.0 ALF 5.76

LAUNCH DATE DEC 7 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 366.147

RL 147.36 LAL -.00 LOL 74.96 VL 27.397 GAL 5.49 AZL 86.43 MCA 154.68 SMA 126.32 ECC .19140 INC 3.5729 V1 30.233
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.416 GAP -7.41 AZP 93.23 TAL 155.52 TAP 310.20 RCA 102.14 APO 150.50 V2 34.987
 RC 50.327 GL 22.28 GP -1.34 ZAL 50.53 ZAP 22.73 ETS 5.43 ZAE 162.00 ETE 336.60 ZAC 120.86 ETC 166.41 CLP -22.69

PLANETOCENTRIC CONIC

C3 20.091 VHL 4.482 DLA 31.51 RAL 17.21 RAD 6567.8 VEL 11.894 PTH 2.11 VHP 5.489 DPA 6.76 RAP 26.53 ECC 1.3306
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.56 23 29 58 3901.93 -21.70 161.15 246.74 66.58 24 35 0 3301.9 -24.68 153.49
 104.44 3 21 1 3173.03 -21.69 107.26 246.74 66.57 4 13 54 2573.0 -24.67 99.60
 75.56 23 29 58 3901.93 -21.70 161.15 246.74 66.58 24 35 0 3301.9 -24.68 153.49
 104.44 3 21 1 3173.03 -21.69 107.26 246.74 66.57 4 13 54 2573.0 -24.67 99.60
 110.00 5 38 44 2745.29 -31.03 78.16 250.37 74.87 6 24 29 2145.3 -32.79 69.38
 110.00 2 15 21 3377.66 -12.94 118.07 241.94 58.08 3 11 39 2777.7 -17.07 111.38

DIFFERENTIAL CORRECTIONS

TDE -1.1112 TRA -1.6591 TC3 .1895 BAU .0572
 RDE -.1199 RRA .0109 RC3 -.0973 FAU .05392
 FDE 2.9193 FRA 3.3232 FC3 -2.3236 BSP .8079
 BDE 1.1176 BRA 1.6591 BC3 .2130 FSP -1537

MID-COURSE EXECUTION ACCURACY

SGT 2869.6 SGR 177.1 SG3 567.2
 RRT .3189 RRF -.2653 RTF -.9582
 SGB 2875.0 R23 .0436 R13 -.9581
 SG1 2870.1 SG2 167.8 TMA 1.13

ORBIT DETERMINATION ACCURACY

ST 1604.5 SR 153.4 SS 1906.7
 CRT .8697 CRS .9154 CST .9946
 LSA 2492.5 MSA 143.4 SSA 10.7
 EL1 1610.0 EL2 75.4 ALF 4.76

LAUNCH DATE DEC 7 1968

FLIGHT TIME 144.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 372.785

RL 147.36 LAL -.00 LOL 74.96 VL 27.455 GAL 5.30 AZL 86.40 MCA 157.88 SMA 126.71 ECC .18678 INC 3.6023 V1 30.233
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.447 GAP -6.84 AZP 93.34 TAL 155.64 TAP 313.52 RCA 103.04 APO 150.38 V2 34.974
 RC 51.881 GL 23.01 GP -1.62 ZAL 50.95 ZAP 25.22 ETS 5.68 ZAE 161.36 ETE 338.22 ZAC 121.62 ETC 166.50 CLP -25.17

PLANETOCENTRIC CONIC

C3 19.304 VHL 4.394 DLA 32.10 RAL 16.66 RAD 6567.8 VEL 11.861 PTH 2.10 VHP 5.189 DPA 6.79 RAP 27.30 ECC 1.3177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.21 23 18 31 3921.36 -22.35 162.93 245.73 66.33 24 23 52 3321.4 -25.35 155.24
 105.79 3 28 3 3134.63 -22.33 104.65 245.73 66.32 4 20 18 2534.6 -25.34 96.96
 74.21 23 18 31 3921.36 -22.35 162.93 245.73 66.33 24 23 52 3321.4 -25.35 155.24
 105.79 3 28 3 3134.63 -22.33 104.65 245.73 66.32 4 20 18 2534.6 -25.34 96.96
 110.00 5 24 43 2773.75 -30.50 80.21 249.03 73.76 6 10 57 2173.7 -32.42 71.52
 110.00 2 24 57 3330.24 -14.64 115.43 241.51 58.76 3 20 27 2730.2 -18.67 108.63

DIFFERENTIAL CORRECTIONS

TDE -1.0744 TRA -1.5702 TC3 .2886 BAU .0784
 RDE -.0959 RRA .0137 RC3 -.0952 FAU .06110
 FDE 3.1938 FRA 3.5304 FC3 -2.7404 BSP .8867
 BDE 1.0786 BRA 1.5703 BC3 .3039 FSP -1809

MID-COURSE EXECUTION ACCURACY

SGT 2805.4 SGR 151.9 SG3 627.1
 RRT .2419 RRF -.1858 RTF -.9617
 SGB 2809.5 R23 .0489 R13 -.9617
 SG1 2805.7 SG2 147.4 TMA .75

ORBIT DETERMINATION ACCURACY

ST 1577.6 SR 125.2 SS 2005.7
 CRT .8635 CRS .9110 CST .9945
 LSA 2550.9 MSA 141.5 SSA 9.1
 EL1 1581.3 EL2 63.0 ALF 3.93

LAUNCH DATE DEC 7 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 379.406

RL 147.36 LAL -.00 LOL 74.96 VL 27.509 GAL 5.14 AZL 86.36 MCA 161.07 SMA 127.07 ECC .18257 INC 3.6412 V1 30.233
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.474 GAP -6.29 AZP 93.44 TAL 155.77 TAP 316.84 RCA 103.87 APO 150.27 V2 34.961
 RC 53.536 GL 23.77 GP -1.99 ZAL 51.40 ZAP 27.89 ETS 6.04 ZAE 160.96 ETE 339.07 ZAC 122.25 ETC 166.68 CLP -27.82

PLANETOCENTRIC CONIC

C3 18.629 VHL 4.316 DLA 32.71 RAL 16.08 RAD 6567.8 VEL 11.833 PTH 2.10 VHP 4.904 DPA 6.66 RAP 27.95 ECC 1.3066
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.89 23 7 31 3940.01 -22.98 164.66 244.78 66.05 24 13 11 3340.0 -26.02 156.94
 107.11 3 34 27 3099.20 -22.97 102.24 244.77 66.04 4 26 6 2499.2 -26.01 94.52
 72.89 23 7 31 3940.01 -22.98 164.66 244.78 66.05 24 13 11 3340.0 -26.02 156.94
 107.11 3 34 27 3099.20 -22.97 102.24 244.77 66.04 4 26 6 2499.2 -26.01 94.52
 110.00 5 8 8 2810.67 -29.77 82.84 247.66 72.37 5 54 59 2210.7 -31.89 74.27
 110.00 2 36 56 3276.53 -16.51 112.40 241.26 59.63 3 31 33 2676.5 -20.42 105.45

DIFFERENTIAL CORRECTIONS

TDE -1.0540 TRA -1.4973 TC3 .3415 BAU .0884
 RDE -.0697 RRA .0193 RC3 -.0966 FAU .06800
 FDE 3.5389 FRA 3.7866 FC3 -3.1603 BSP .9095
 BDE 1.0563 BRA 1.4974 BC3 .3549 FSP -2062

MID-COURSE EXECUTION ACCURACY

SGT 2761.4 SGR 128.2 SG3 697.7
 RRT .0929 RRF -.0242 RTF -.9638
 SGB 2764.4 R23 .0658 R13 -.9638
 SG1 2761.5 SG2 127.6 TMA .25

ORBIT DETERMINATION ACCURACY

ST 1568.5 SR 93.0 SS 2130.9
 CRT .8429 CRS .8939 CST .9945
 LSA 2643.8 MSA 139.6 SSA 7.6
 EL1 1570.4 EL2 50.0 ALF 2.86

LAUNCH DATE DEC 7 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 386.007

RL 147.36 LAL -.00 LOL 74.96 VL 27.557 GAL 4.99 AZL 86.31 MCA 164.27 SMA 127.39 ECC .17877 INC 3.6948 V1 30.233
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.497 GAP -5.75 AZP 93.56 TAL 155.89 TAP 320.16 RCA 104.62 APO 150.16 V2 34.948
 RC 55.282 GL 24.60 GP -2.52 ZAL 51.86 ZAP 30.75 ETS 6.54 ZAE 160.80 ETE 339.04 ZAC 122.74 ETC 166.98 CLP -30.65

PLANETOCENTRIC CONIC

C3 18.068 VHL 4.251 DLA 33.38 RAL 15.46 RAD 6567.7 VEL 11.809 PTH 2.09 VHP 4.634 DPA 6.31 RAP 28.49 ECC 1.2973
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.54 22 56 28 3959.36 -23.62 166.46 243.90 65.70 24 2 28 3359.4 -26.70 158.72
 108.46 3 40 34 3065.53 -23.61 99.96 243.89 65.69 4 31 40 2465.5 -26.69 92.22
 71.54 22 56 28 3959.36 -23.62 166.46 243.90 65.70 24 2 28 3359.4 -26.70 158.72
 108.46 3 40 34 3065.53 -23.61 99.96 243.89 65.69 4 31 40 2465.5 -26.69 92.22
 110.00 4 46 3 2864.86 -28.59 86.62 246.13 70.41 5 33 48 2264.9 -30.99 78.24
 110.00 2 54 6 3208.03 -18.82 108.43 241.31 60.92 3 47 34 2608.0 -22.55 101.28

DIFFERENTIAL CORRECTIONS

TDE -1.0400 TRA -1.4310 TC3 .3592 BAU .0902
 RDE -.0386 RRA .0299 RC3 -.1029 FAU .07469
 FDE 3.9620 FRA 4.0912 FC3 -3.5789 BSP .8961
 BDE 1.0408 BRA 1.4313 BC3 .3736 FSP -2301

MID-COURSE EXECUTION ACCURACY

SGT 2719.2 SGR 112.6 SG3 779.5
 RRT -.2134 RRF .3024 RTF -.9649
 SGB 2721.6 R23 -.0985 R13 .9649
 SG1 2719.3 SG2 110.0 TMA 179.49

ORBIT DETERMINATION ACCURACY

ST 1563.9 SR 54.0 SS 2281.1
 CRT .7435 CRS .8080 CST .9946
 LSA 2762.8 MSA 138.4 SSA 6.2
 EL1 1564.4 EL2 36.1 ALF 1.47

LAUNCH DATE DEC 7 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 392.587

RL 147.36 LAL -.00 LOL 74.96 VL 27.600 GAL 4.85 AZL 86.22 HCA 167.45 SMA 127.68 ECC .17533 INC 3.7752 V1 30.233
 RP 108.47 LAP .82 LOP 242.44 VP 37.517 GAP -5.23 AZP 93.69 TAL 156.02 TAP 323.47 RCA 105.30 APO 150.07 V2 34.936
 RC 57.109 GL 25.54 GP -3.34 ZAL 52.39 ZAP 33.83 ETS 7.29 ZAE 160.84 ETE 337.80 ZAC 123.10 ETC 167.48 CLP -33.69

PLANETOCENTRIC CONIC

C3 17.637 VHL 4.200 DLA 34.16 RAL 14.77 RAD 6567.7 VEL 11.791 PTH 2.08 VHP 4.380 DPA 5.62 RAP 28.95 ECC 1.2903
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.05 22 44 34 3981.76 -24.30 168.54 243.08 65.22 23 50 56 3381.8 -27.43 160.77
 109.95 3 46 58 3031.90 -24.28 97.68 243.08 65.21 4 37 30 2431.9 -27.42 89.92
 70.05 22 44 34 3981.76 -24.30 168.54 243.08 65.22 23 50 56 3381.8 -27.43 160.77
 109.95 3 46 58 3031.90 -24.28 97.68 243.08 65.21 4 37 30 2431.9 -27.42 89.92
 110.00 3 57 26 3000.02 -25.17 95.64 243.52 66.07 4 47 26 2400.0 -28.18 87.76
 110.00 3 37 13 3061.63 -23.41 99.56 242.63 64.35 4 28 14 2461.6 -26.66 91.90

DIFFERENTIAL CORRECTIONS

TDE -1.0165 TRA -1.3532 TC3 .3747 BAU .0926
 RDE .0020 RRA .0492 RC3 -.1172 FAU .08256
 FDE 4.4475 FRA 4.4070 FC3 -4.0526 BSP 8874
 BDE 1.0165 BRA 1.3541 BC3 .3926 FSP -2592

MID-COURSE EXECUTION ACCURACY

SGT 2645.7 SGR 127.6 SG3 869.2
 RRT -.6395 RRF .7335 RTF -.9655
 SGB 2648.7 R23 -.1498 R13 .9657
 SGI 2646.9 SG2 98.1 THA 178.23

ORBIT DETERMINATION ACCURACY

ST 1539.9 SR 24.7 SS 2440.5
 CRT -.5301 CRS -.4405 CST .9945
 LSA 2882.5 MSA 138.6 SSA 4.7
 EL1 1539.9 EL2 20.9 ALF 179.51

LAUNCH DATE DEC 7 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 399.146

RL 147.36 LAL -.00 LOL 74.96 VL 27.639 GAL 4.73 AZL 86.09 HCA 170.64 SMA 127.95 ECC .17226 INC 3.9089 V1 30.233
 RP 108.51 LAP .64 LOP 245.62 VP 37.534 GAP -4.72 AZP 93.86 TAL 156.14 TAP 326.78 RCA 105.91 APO 149.99 V2 34.923
 RC 59.010 GL 26.77 GP -4.72 ZAL 53.02 ZAP 37.20 ETS 8.55 ZAE 160.93 ETE 334.54 ZAC 123.37 ETC 168.36 CLP -36.94

PLANETOCENTRIC CONIC

C3 17.388 VHL 4.170 DLA 35.18 RAL 13.92 RAD 6567.7 VEL 11.780 PTH 2.08 VHP 4.145 DPA 4.32 RAP 29.43 ECC 1.2862
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.20 22 30 21 4011.22 -25.07 171.26 242.36 64.47 23 37 12 3411.2 -28.29 163.48
 111.80 3 54 23 2995.83 -25.06 95.25 242.35 64.46 4 44 19 2395.8 -28.28 87.47
 68.20 22 30 21 4011.22 -25.07 171.26 242.36 64.47 23 37 12 3411.2 -28.29 163.48
 111.80 3 54 23 2995.83 -25.06 95.25 242.35 64.46 4 44 19 2395.8 -28.28 87.47
 68.20 22 30 21 4011.22 -25.07 171.26 242.36 64.47 23 37 12 3411.2 -28.29 163.48
 111.80 3 54 23 2995.83 -25.06 95.25 242.35 64.46 4 44 19 2395.8 -28.28 87.47

DIFFERENTIAL CORRECTIONS

TDE -.9926 TRA -1.2702 TC3 .3659 BAU .0917
 RDE .0630 RRA .0851 RC3 -.1478 FAU .09051
 FDE 5.0449 FRA 4.7402 FC3 -4.5065 BSP 8626
 BDE .9946 BRA 1.2731 BC3 .3946 FSP -2891

MID-COURSE EXECUTION ACCURACY

SGT 2552.0 SGR 207.7 SG3 968.6
 RRT -.8699 RRF .9461 RTF -.9653
 SGB 2560.5 R23 -.2130 R13 .9659
 SGI 2558.4 SG2 102.2 THA 175.94

ORBIT DETERMINATION ACCURACY

ST 1506.9 SR 96.6 SS 2626.6
 CRT -.9993 CRS -.9915 CST .9942
 LSA 3026.4 MSA 140.6 SSA 3.3
 EL1 1509.9 EL2 3.7 ALF 176.33

LAUNCH DATE DEC 7 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 405.683

RL 147.36 LAL -.00 LOL 74.96 VL 27.673 GAL 4.62 AZL 85.82 HCA 173.83 SMA 128.18 ECC .16954 INC 4.1789 V1 30.233
 RP 108.55 LAP .45 LOP 248.80 VP 37.549 GAP -4.22 AZP 94.16 TAL 156.25 TAP 330.07 RCA 106.45 APO 149.91 V2 34.911
 RC 60.976 GL 28.72 GP -7.54 ZAL 53.99 ZAP 41.02 ETS 11.05 ZAE 160.48 ETE 327.15 ZAC 123.71 ETC 170.20 CLP -40.44

PLANETOCENTRIC CONIC

C3 17.499 VHL 4.183 DLA 36.84 RAL 12.61 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 3.939 DPA 1.60 RAP 30.23 ECC 1.2880
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.38 22 9 43 4058.65 -26.12 175.62 241.75 63.04 23 17 21 3458.7 -29.51 167.85
 114.62 4 4 35 2951.37 -26.11 92.27 241.74 63.03 4 53 47 2351.4 -29.50 84.49
 65.38 22 9 43 4058.65 -26.12 175.62 241.75 63.04 23 17 21 3458.7 -29.51 167.85
 114.62 4 4 35 2951.37 -26.11 92.27 241.74 63.03 4 53 47 2351.4 -29.50 84.49
 65.38 22 9 43 4058.65 -26.12 175.62 241.75 63.04 23 17 21 3458.7 -29.51 167.85
 114.62 4 4 35 2951.37 -26.11 92.27 241.74 63.03 4 53 47 2351.4 -29.50 84.49

DIFFERENTIAL CORRECTIONS

TDE -.9750 TRA -1.1758 TC3 .3344 BAU .0932
 RDE .1791 RRA .1599 RC3 -.2166 FAU .09817
 FDE 5.8164 FRA 5.0198 FC3 -4.8565 BSP 8340
 BDE .9913 BRA 1.1866 BC3 .3984 FSP -3199

MID-COURSE EXECUTION ACCURACY

SGT 2431.1 SGR 409.8 SG3 1071.4
 RRT -.9325 RRF .9922 RTF -.9640
 SGB 2465.4 R23 -.2492 R13 .9663
 SGI 2461.0 SG2 146.2 THA 171.04

ORBIT DETERMINATION ACCURACY

ST 1465.5 SR 258.7 SS 2849.7
 CRT -.9947 CRS -.9999 CST .9937
 LSA 3211.6 MSA 145.9 SSA 1.9
 EL1 1488.0 EL2 26.1 ALF 170.04

LAUNCH DATE DEC 7 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 412.198

RL 147.36 LAL -.00 LOL 74.96 VL 27.704 GAL 4.53 AZL 84.98 HCA 177.01 SMA 128.39 ECC .16714 INC 5.0206 V1 30.233
 RP 108.58 LAP .26 LOP 251.98 VP 37.560 GAP -3.73 AZP 95.01 TAL 156.34 TAP 333.35 RCA 106.93 APO 149.85 V2 34.900
 RC 63.000 GL 33.59 GP -16.12 ZAL 56.41 ZAP 46.37 ETS 18.36 ZAE 155.62 ETE 310.10 ZAC 124.63 ETC 175.99 CLP -44.09

PLANETOCENTRIC CONIC

C3 19.087 VHL 4.369 DLA 40.98 RAL 9.28 RAD 6567.8 VEL 11.852 PTH 2.10 VHP 3.839 DPA -6.49 RAP 33.14 ECC 1.3141
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.04 21 25 52 4166.67 -28.08 185.83 241.42 58.83 22 35 19 3566.7 -31.98 178.18
 120.96 4 21 53 2883.98 -28.06 87.88 241.41 58.81 5 9 57 2284.0 -31.97 80.23
 59.04 21 25 52 4166.67 -28.08 185.83 241.42 58.83 22 35 19 3566.7 -31.98 178.18
 120.96 4 21 53 2883.98 -28.06 87.88 241.41 58.81 5 9 57 2284.0 -31.97 80.23
 59.04 21 25 52 4166.67 -28.08 185.83 241.42 58.83 22 35 19 3566.7 -31.98 178.18
 120.96 4 21 53 2883.98 -28.06 87.88 241.41 58.81 5 9 57 2284.0 -31.97 80.23

DIFFERENTIAL CORRECTIONS

TDE -1.0289 TRA -1.0594 TC3 .2641 BAU .1233
 RDE .5573 RRA .3689 RC3 -.4046 FAU .09994
 FDE 6.9886 FRA 4.8452 FC3 -4.5329 BSP 8428
 BDE 1.1701 BRA 1.1218 BC3 .4832 FSP -3380

MID-COURSE EXECUTION ACCURACY

SGT 2293.8 SGR 1034.4 SG3 1128.3
 RRT -.9472 RRF .9989 RTF -.9606
 SGB 2516.2 R23 -.2266 R13 .9739
 SGI 2497.7 SG2 304.6 THA 156.50

ORBIT DETERMINATION ACCURACY

ST 1458.0 SR 755.8 SS 3153.7
 CRT -.9914 CRS -.9999 CST .9928
 LSA 3552.0 MSA 160.2 SSA .7
 EL1 1639.9 EL2 88.1 ALF 152.71

LAUNCH DATE DEC 7 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 418.714

RL 147.36 LAL -.00 LOL 74.96 VL 27.731 GAL 4.45 AZL 110.49 HCA 180.21 SMA 128.58 ECC .16502 INC20.1966 V1 30.233
 RP 108.62 LAP .07 LOP 255.15 VP 37.570 GAP -3.25 AZP 69.51 TAL 156.43 TAP 336.64 RCA 107.36 APO 149.79 V2 34.889
 RC 65.076 GL -.63.14 GP 81.07 ZAL 77.33 ZAP 81.29 ETS 279.21 ZAE 95.59 ETE 37.65 ZAC 84.70 ETC 109.67 CLP 12.68

PLANETOCENTRIC CONIC

C3 117.646 VHL 10.846 DLA -50.80 RAL 46.07 RAD 6570.2 VEL 15.459 PTH 2.76 VHP 15.375 DPA 74.29 RAP 283.41 ECC 2.9362
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.88 11 5 33 2084.39 12.49 54.27 305.65 139.66 11 40 17 1484.4 18.53 49.24
 134.12 19 35 43 5836.93 12.50 270.72 305.67 139.66 21 13 0 5236.9 18.54 265.68
 45.88 11 5 33 2084.39 12.49 54.27 305.65 139.66 11 40 17 1484.4 18.53 49.24
 134.12 19 35 43 5836.93 12.50 270.72 305.67 139.66 21 13 0 5236.9 18.54 265.68
 45.88 11 5 33 2084.39 12.49 54.27 305.65 139.66 11 40 17 1484.4 18.53 49.24
 134.12 19 35 43 5836.93 12.50 270.72 305.67 139.66 21 13 0 5236.9 18.54 265.68

DIFFERENTIAL CORRECTIONS

TDE -8.8384 TR-13.9557 TC3-3.0421 BAU 5.2213
 RDE -3.1982 RRA-5.6956 RC3-1.3291 FAU-1.13868
 FDE 2.9183 FRA 4.5163 FC3 1.0205 BSP 213425
 BOE 9.3993 BRA15.0732 BC3 3.3197 FSP 5697

MID-COURSE EXECUTION ACCURACY

SGT14191.8 SGR 5816.3 SG3 400.9
 RRT .9988 RRF -.9989 RTF -.9999
 SGB15337.4 R23 .0015 R13 -.9999
 SGI15335.1 SG2 265.7 TMA 22.27

ORBIT DETERMINATION ACCURACY

ST 5838.0 SR 2213.9 SS 2542.5
 CRT .9983 CRS .9977 CST 1.0000
 LSA 6740.3 MSA 128.0 SSA 3.7
 EL1 6242.5 EL2 121.6 ALF 20.74

LAUNCH DATE DEC 7 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 425.167

RL 147.36 LAL -.00 LOL 74.96 VL 27.754 GAL 4.38 AZL 88.05 HCA 183.37 SMA 128.74 ECC .16327 INC 1.9493 V1 30.233
 RP 108.65 LAP -.11 LOP 258.33 VP 37.577 GAP -2.79 AZP 91.95 TAL 156.47 TAP 339.84 RCA 107.72 APO 149.76 V2 34.878
 RC 67.198 GL 15.11 GP 15.89 ZAL 49.39 ZAP 54.26 ETS 350.39 ZAE 163.23 ETE 52.43 ZAC 113.80 ETC 158.33 CLP -52.60

PLANETOCENTRIC CONIC

C3 13.049 VHL 3.612 DLA 24.56 RAL 19.47 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 3.459 DPA 22.02 RAP 18.14 ECC 1.2148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 4 3016.23 -27.90 97.61 242.21 84.92 4 34 21 2416.2 -28.31 88.97
 90.00 23 24 58 3862.30 -10.64 152.91 237.08 63.60 24 29 21 3262.3 -14.10 145.95
 100.00 5 26 47 2685.08 -29.78 73.39 242.36 87.24 6 11 32 2085.1 -29.84 64.59
 100.00 0 28 53 3668.69 -8.97 137.80 236.20 61.37 1 30 1 3068.7 -12.72 131.03
 110.00 7 16 23 2342.20 -34.09 47.35 242.36 92.71 7 55 25 1742.2 -33.34 38.19
 110.00 0 55 46 3584.34 -5.28 129.16 233.95 56.18 1 55 31 2984.3 -9.69 122.84

DIFFERENTIAL CORRECTIONS

TDE -.4809 TRA -.8952 TC3 .2134 BAU .1248
 RDE -.3745 RRA -.5921 RC3 .6825 FAU .12872
 FDE 4.8682 FRA 7.1497 FC3-8.5403 BSP 7384
 BOE .6095 BRA 1.0733 BC3 .7151 FSP -4171

MID-COURSE EXECUTION ACCURACY

SGT 1744.4 SGR 1289.2 SG3 1374.7
 RRT .9520 RRF -.9995 RTF -.9478
 SGB 2169.1 R23 -.2131 R13 -.9766
 SGI 2145.3 SG2 320.8 TMA 36.06

ORBIT DETERMINATION ACCURACY

ST 895.1 SR 670.1 SS 2564.8
 CRT .9974 CRS .9996 CST .9949
 LSA 2796.6 MSA 86.0 SSA 3.4
 EL1 1117.4 EL2 38.6 ALF 36.80

LAUNCH DATE DEC 7 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 431.617

RL 147.36 LAL -.00 LOL 74.96 VL 27.774 GAL 4.33 AZL 87.35 HCA 186.55 SMA 128.88 ECC .16178 INC 2.6526 V1 30.233
 RP 108.68 LAP -.30 LOP 261.50 VP 37.582 GAP -2.34 AZP 92.64 TAL 156.49 TAP 343.04 RCA 108.03 APO 149.73 V2 34.867
 RC 69.360 GL 20.30 GP 8.73 ZAL 50.95 ZAP 57.80 ETS 356.54 ZAE 169.89 ETE 39.86 ZAC 115.04 ETC 161.84 CLP -57.38

PLANETOCENTRIC CONIC

C3 13.655 VHL 3.695 DLA 29.25 RAL 16.98 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 3.220 DPA 14.87 RAP 19.79 ECC 1.2247
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.36 0 23 38 3652.43 -22.33 142.79 239.81 70.61 1 24 30 3052.4 -24.77 134.90
 97.64 2 29 26 3245.81 -22.32 112.95 239.80 70.60 3 23 32 2645.8 -24.76 105.06
 100.00 3 40 2 3019.48 -26.22 97.52 241.12 75.10 4 30 22 2419.5 -28.01 89.17
 100.00 1 55 43 3353.99 -18.54 119.35 238.20 66.13 2 51 37 2754.0 -21.61 111.90
 110.00 6 13 37 2538.47 -33.67 62.64 242.73 83.69 6 55 55 1938.5 -34.17 53.43
 110.00 1 38 38 3407.77 -11.85 119.72 234.51 57.70 2 55 25 2807.8 -16.03 113.10

DIFFERENTIAL CORRECTIONS

TDE -.4214 TRA -.7367 TC3 .0732 BAU .0720
 RDE -.2343 RRA -.3414 RC3 .3874 FAU .14561
 FDE 6.4125 FRA 7.7324 FC3-9.2324 BSP 5885
 BOE .4822 BRA .8120 BC3 .3943 FSP -4823

MID-COURSE EXECUTION ACCURACY

SGT 1464.3 SGR 763.0 SG3 1579.6
 RRT .9374 RRF -.9968 RTF -.9285
 SGB 1651.1 R23 -.2941 R13 -.9525
 SGI 1633.9 SG2 238.1 TMA 26.64

ORBIT DETERMINATION ACCURACY

ST 762.4 SR 406.5 SS 2994.9
 CRT .9969 CRS .9974 CST .9889
 LSA 3115.0 MSA 112.6 SSA 4.0
 EL1 863.5 EL2 28.3 ALF 28.02

LAUNCH DATE DEC 7 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 438.045

RL 147.36 LAL -.00 LOL 74.96 VL 27.791 GAL 4.30 AZL 87.10 HCA 189.72 SMA 128.99 ECC .16056 INC 2.8968 V1 30.233
 RP 108.72 LAP -.49 LOP 264.67 VP 37.585 GAP -1.90 AZP 92.86 TAL 156.49 TAP 346.21 RCA 108.28 APO 149.70 V2 34.858
 RC 71.560 GL 22.12 GP 6.17 ZAL 51.58 ZAP 62.56 ETS 358.77 ZAE 173.61 ETE 40.57 ZAC 114.18 ETC 163.36 CLP -62.38

PLANETOCENTRIC CONIC

C3 13.832 VHL 3.719 DLA 30.89 RAL 16.05 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 3.072 DPA 11.79 RAP 19.16 ECC 1.2276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.11 23 36 15 3781.96 -23.46 152.88 239.55 69.31 24 39 17 3182.0 -26.07 144.97
 102.89 3 5 27 3121.91 -23.45 104.18 239.54 69.30 3 57 29 2521.9 -26.06 96.26
 77.11 23 36 15 3781.96 -23.46 152.88 239.55 69.31 24 39 17 3182.0 -26.07 144.97
 102.89 3 5 27 3121.91 -23.45 104.18 239.54 69.30 3 57 29 2521.9 -26.06 96.26
 110.00 5 45 8 2623.79 -32.84 69.16 242.47 79.92 6 28 52 2023.8 -33.88 60.07
 110.00 1 59 40 3328.08 -14.71 115.31 235.04 58.79 2 55 8 2728.1 -18.74 108.51

DIFFERENTIAL CORRECTIONS

TDE -.3032 TRA -.5763 TC3 -.0819 BAU .0563
 RDE -.1607 RRA -.2553 RC3 .2930 FAU .15779
 FDE 7.3403 FRA 8.2374 FC3-9.8763 BSP 4682
 BOE .3431 BRA .6303 BC3 .3042 FSP -5299

MID-COURSE EXECUTION ACCURACY

SGT 1136.7 SGR 564.8 SG3 1729.1
 RRT .8982 RRF -.9892 RTF -.8850
 SGB 1269.3 R23 -.3663 R13 -.9189
 SGI 1249.0 SG2 225.9 TMA 24.92

ORBIT DETERMINATION ACCURACY

ST 560.8 SR 283.3 SS 3224.7
 CRT .9965 CRS .9911 CST .9772
 LSA 3283.1 MSA 122.5 SSA 4.9
 EL1 627.9 EL2 21.2 ALF 26.76

LAUNCH DATE DEC 7 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 22 1969

MELIOCENTRIC CONIC
 RL 147.36 LAL -.00 LOL 74.96 VL 27.805 GAL 4.27 AZL 86.98 MCA 192.90 SMA 129.09 ECC .15961 INC 3.0221 V1 30.233
 RP 108.74 LAP -.67 LOP 267.84 VP 37.587 GAP -1.46 AZP 92.95 TAL 156.45 TAP 349.35 RCA 108.49 APO 149.70 V2 34.848
 RC 73.792 GL 23.09 GP 4.85 ZAL 51.89 ZAP 67.73 ETS 359.90 ZAE 176.60 ETE 62.65 ZAC 112.62 ETC 164.28 CLP -67.65

PLANETOCENTRIC CONIC
 C3 13.898 VML 3.728 OLA 31.76 RAL 15.58 RAD 6567.5 VEL 11.631 PTH 2.04 VHP 2.958 DPA 9.73 RAP 17.78 ECC 1.2287
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.97 23 19 23 3830.24 -24.07 156.78 239.42 68.62 24 23 13 3230.2 -26.76 148.85
 105.03 3 18 36 3075.75 -24.06 100.95 239.41 68.61 4 9 52 2475.7 -26.75 93.02
 74.97 23 19 23 3830.24 -24.07 156.78 239.42 68.62 24 23 13 3230.2 -26.76 148.85
 105.03 3 18 36 3075.75 -24.06 100.95 239.41 68.61 4 9 52 2475.7 -26.75 93.02
 110.00 5 27 22 2676.49 -32.14 73.11 242.19 77.67 6 11 59 2076.5 -33.50 64.14
 110.00 2 13 43 3277.49 -16.48 112.45 235.49 59.62 3 8 21 2677.5 -20.39 105.51

DIFFERENTIAL CORRECTIONS
 TOE -.1532 TRA -.4038 TC3 -.2589 BAU .0668
 RDE -.1109 RRA -.2103 RC3 -.2498 FAU .16926
 FDE 8.0322 FRA 8.6833 FC-10.5430 BSP 3451
 BDE .1892 BRA .4553 BC3 .3598 FSP -5760

MID-COURSE EXECUTION ACCURACY
 SGT 790.9 SGR 456.3 SG3 1854.2
 RRT .7804 RRF -.9736 RTF -.7569
 SGB 913.1 R23 -.4949 R13 -.8385
 SG1 876.0 SG2 257.6 THA 26.73

ORBIT DETERMINATION ACCURACY
 ST 321.6 SR 205.1 SS 3377.4
 CRT .9863 CRS .9747 CST .9263
 LSA 3396.5 MSA 128.7 SSA 5.8
 EL1 380.4 EL2 28.6 ALF 32.38

LAUNCH DATE DEC 7 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 24 1969

MELIOCENTRIC CONIC
 RL 147.36 LAL -.00 LOL 74.96 VL 27.816 GAL 4.26 AZL 86.90 MCA 196.07 SMA 129.17 ECC .15891 INC 3.0979 V1 30.233
 RP 108.77 LAP -.86 LOP 271.01 VP 37.587 GAP -1.03 AZP 92.98 TAL 156.38 TAP 352.45 RCA 108.64 APO 149.70 V2 34.839
 RC 76.053 GL 23.67 GP 4.03 ZAL 52.04 ZAP 73.19 ETS .55 ZAE 176.88 ETE 131.02 ZAC 110.65 ETC 164.93 CLP -73.14

PLANETOCENTRIC CONIC
 C3 13.941 VML 3.734 OLA 32.32 RAL 15.35 RAD 6567.5 VEL 11.633 PTH 2.04 VHP 2.872 DPA 8.03 RAP 15.98 ECC 1.2294
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.73 23 10 6 3856.98 -24.45 158.99 239.40 68.18 24 14 23 3257.0 -27.19 151.05
 106.27 3 26 1 3050.35 -24.44 99.18 239.40 68.17 4 16 51 2450.3 -27.19 91.25
 73.73 23 10 6 3856.98 -24.45 158.99 239.40 68.18 24 14 23 3257.0 -27.19 151.05
 106.27 3 26 1 3050.35 -24.44 99.18 239.40 68.17 4 16 51 2450.3 -27.19 91.25
 110.00 5 14 43 2714.66 -31.55 75.93 241.99 76.10 5 59 57 2114.7 -33.14 67.06
 110.00 2 24 30 3240.67 -17.73 110.33 235.93 60.28 3 18 31 2640.7 -21.55 103.29

DIFFERENTIAL CORRECTIONS
 TOE .0190 TRA -.2194 TC3 -.4629 BAU .0959
 RDE -.0724 RRA -.1819 RC3 .2242 FAU .17804
 FDE 8.5843 FRA 9.0784 FC-11.0562 BSP 2137
 BDE .0748 BRA .2850 BC3 .5143 FSP -6125

MID-COURSE EXECUTION ACCURACY
 SGT 528.3 SGR 386.6 SG3 1957.8
 RRT .3453 RRF -.9464 RTF -.2783
 SGB 654.6 R23 -.8014 R13 -.5060
 SG1 556.8 SG2 344.2 THA 23.71

ORBIT DETERMINATION ACCURACY
 ST 123.5 SR 148.9 SS 3491.7
 CRT .4656 CRS .9325 CST .1181
 LSA 3494.5 MSA 133.7 SSA 6.6
 EL1 167.2 EL2 97.3 ALF 56.03

LAUNCH DATE DEC 7 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 26 1969

MELIOCENTRIC CONIC
 RL 147.36 LAL -.00 LOL 74.96 VL 27.825 GAL 4.26 AZL 86.85 MCA 199.24 SMA 129.23 ECC .15847 INC 3.1497 V1 30.233
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.586 GAP -.61 AZP 92.97 TAL 156.28 TAP 355.52 RCA 108.75 APO 149.71 V2 34.831
 RC 78.340 GL 24.05 GP 3.46 ZAL 52.08 ZAP 78.83 ETS .96 ZAE 173.78 ETE 161.93 ZAC 108.42 ETC 165.41 CLP -78.81

PLANETOCENTRIC CONIC
 C3 13.991 VML 3.740 OLA 32.71 RAL 15.26 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 2.811 DPA 6.49 RAP 13.93 ECC 1.2303
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.91 23 4 24 3874.42 -24.71 160.43 239.50 67.86 24 8 59 3274.4 -27.49 152.50
 107.09 3 31 3 3034.50 -24.70 98.08 239.49 67.85 4 21 37 2434.5 -27.48 90.14
 72.91 23 4 24 3874.42 -24.71 160.43 239.50 67.86 24 8 59 3274.4 -27.49 152.50
 107.09 3 31 3 3034.50 -24.70 98.08 239.49 67.85 4 21 37 2434.5 -27.48 90.14
 110.00 5 5 7 2744.74 -31.04 78.12 241.91 74.90 5 50 52 2144.7 -32.79 69.34
 110.00 2 33 26 3212.17 -18.68 108.67 236.39 60.84 3 26 58 2612.2 -22.42 101.54

DIFFERENTIAL CORRECTIONS
 TOE .2076 TRA -.0247 TC3 -.6867 BAU .1342
 RDE -.0396 RRA -.1613 RC3 .2080 FAU .18516
 FDE 8.9608 FRA 9.3537 FC-11.4570 BSP 1057
 BDE .2114 BRA .1632 BC3 .7175 FSP -6445

MID-COURSE EXECUTION ACCURACY
 SGT 605.9 SGR 337.9 SG3 2029.5
 RRT -.4203 RRF -.9030 RTF .5624
 SGB 693.7 R23 .6461 R13 -.6622
 SG1 627.3 SG2 296.1 THA 162.88

ORBIT DETERMINATION ACCURACY
 ST 318.7 SR 107.0 SS 3557.7
 CRT -.5323 CRS .8183 CST -.9212
 LSA 3570.9 MSA 137.9 SSA 7.4
 EL1 324.2 EL2 89.1 ALF 169.03

LAUNCH DATE DEC 7 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 28 1969

MELIOCENTRIC CONIC
 RL 147.36 LAL -.00 LOL 74.96 VL 27.831 GAL 4.28 AZL 86.81 MCA 202.41 SMA 129.27 ECC .15825 INC 3.1870 V1 30.233
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.584 GAP -.20 AZP 92.95 TAL 156.14 TAP 358.54 RCA 108.82 APO 149.73 V2 34.824
 RC 80.651 GL 24.30 GP 3.03 ZAL 52.03 ZAP 84.57 ETS 1.22 ZAE 169.93 ETE 170.67 ZAC 106.06 ETC 165.77 CLP -84.57

PLANETOCENTRIC CONIC
 C3 14.063 VML 3.750 OLA 32.99 RAL 15.30 RAD 6567.6 VEL 11.638 PTH 2.04 VHP 2.776 DPA 5.03 RAP 11.74 ECC 1.2314
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.33 23 0 47 3887.16 -24.88 161.49 239.70 67.61 24 5 35 3287.2 -27.69 153.55
 107.67 3 34 56 3024.01 -24.87 97.35 239.70 67.60 4 25 20 2424.0 -27.69 89.42
 72.33 23 0 47 3887.16 -24.88 161.49 239.70 67.61 24 5 35 3287.2 -27.69 153.55
 107.67 3 34 56 3024.01 -24.87 97.35 239.70 67.60 4 25 20 2424.0 -27.69 89.42
 110.00 4 57 43 2769.56 -30.58 79.91 241.95 73.93 5 43 53 2169.6 -32.48 71.21
 110.00 2 41 7 3189.61 -19.43 107.35 236.89 61.31 3 34 16 2589.6 -23.10 100.14

DIFFERENTIAL CORRECTIONS
 TOE .4077 TRA .1779 TC3 -.9245 BAU .1777
 RDE -.0106 RRA -.1456 RC3 .1965 FAU .18919
 FDE 9.1657 FRA 9.5103 FC-11.6466 BSP 1594
 BDE .4078 BRA .2299 BC3 .9451 FSP -6652

MID-COURSE EXECUTION ACCURACY
 SGT 986.8 SGR 303.8 SG3 2067.3
 RRT -.6610 RRF -.8402 RTF .8637
 SGB 1032.5 R23 .3175 R13 -.8797
 SG1 1008.1 SG2 223.2 THA 167.89

ORBIT DETERMINATION ACCURACY
 ST 630.8 SR 81.3 SS 3583.4
 CRT -.3489 CRS .5277 CST -.9799
 LSA 3636.6 MSA 142.0 SSA 8.0
 EL1 631.4 EL2 76.1 ALF 177.39

LAUNCH DATE DEC 7 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 469.860

RL 147.36 LAL -.00 LOL 74.96 VL 27.835 GAL 4.31 AZL 86.78 MCA 205.58 SMA 129.30 ECC .15828 INC 3.2156 V1 30.233
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.580 GAP .21 AZP 92.90 TAL 155.95 TAP 1.53 RCA 108.84 APO 149.77 V2 34.816
 RC 82.981 GL 24.44 GP 2.68 ZAL 51.90 ZAP 90.34 ETS 1.39 ZAE 165.89 ETE 174.21 ZAC 103.64 ETC 166.03 CLP -90.34

PLANETOCENTRIC CONIC

C3 14.165 VHL 3.764 DLA 33.19 RAL 15.43 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 2.766 DPA 3.64 RAP 9.52 ECC 1.2331
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.91 22 58 40 3896.97 -24.99 162.30 240.02 67.41 24 3 37 3297.0 -27.83 154.36
 108.09 3 38 9 3017.36 -24.98 96.89 240.01 67.40 4 28 26 2417.4 -27.82 88.96
 71.91 22 58 40 3896.97 -24.99 162.30 240.02 67.41 24 3 37 3297.0 -27.83 154.36
 108.09 3 38 9 3017.36 -24.98 96.89 240.01 67.40 4 28 26 2417.4 -27.82 88.96
 110.00 4 52 5 2790.45 -30.18 81.41 242.11 73.13 5 38 35 2190.5 -32.19 72.77
 110.00 2 47 50 3171.88 -20.00 106.29 237.45 61.69 3 40 42 2571.9 -23.63 99.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .6129 TRA .3847 TC3-1.1696 BAU .2243 SGT 1461.3 SGR 281.4 SG3 2069.5 ST 956.8 SR 76.5 SS 3574.4
 RDE .0154 RRA -.1332 RC3 .1876 FAU .18946 RRT -.6613 RRF -.7578 RTF .9399 CRT .0891 CRS .0443 CST -.9909
 FDE 9.2064 FRA 9.5420 FC-11.5795 BSP 3099 SGB 1488.2 R23 .1642 R13 -.9431 LSA 3698.2 MSA 145.6 SSA 8.9
 BOE .6131 BRA .4071 BC3 1.1846 FSP -6720 SG1 1473.4 SG2 209.4 TMA 172.59 EL1 956.8 EL2 76.2 ALF .41

LAUNCH DATE DEC 7 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 476.159

RL 147.36 LAL -.00 LOL 74.96 VL 27.837 GAL 4.36 AZL 86.76 MCA 208.74 SMA 129.32 ECC .15852 INC 3.2382 V1 30.233
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.576 GAP .61 AZP 92.84 TAL 155.73 TAP 4.48 RCA 108.82 APO 149.82 V2 34.810
 RC 85.328 GL 24.50 GP 2.40 ZAL 51.70 ZAP 96.02 ETS 1.48 ZAE 161.83 ETE 175.96 ZAC 101.28 ETC 166.21 CLP -96.03

PLANETOCENTRIC CONIC

C3 14.300 VHL 3.781 DLA 33.35 RAL 15.66 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 2.781 DPA 2.33 RAP 7.33 ECC 1.2353
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.61 22 57 40 3904.92 -25.04 162.93 240.44 67.23 24 2 45 3304.9 -27.91 155.00
 108.39 3 40 57 3013.60 -25.03 96.62 240.43 67.21 4 31 10 2413.6 -27.90 88.69
 71.61 22 57 40 3904.92 -25.04 162.93 240.44 67.23 24 2 45 3304.9 -27.91 155.00
 108.39 3 40 57 3013.60 -25.03 96.62 240.43 67.21 4 31 10 2413.6 -27.90 88.69
 110.00 4 48 0 2808.05 -29.82 82.65 242.41 72.46 5 34 48 2208.1 -31.93 74.08
 110.00 2 53 43 3158.47 -20.43 105.49 238.07 61.98 3 46 21 2558.5 -24.02 98.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .8180 TRA .5923 TC3-1.4109 BAU .2719 SGT 1956.7 SGR 268.7 SG3 2034.4 ST 1281.0 SR 89.6 SS 3524.5
 RDE .0392 RRA -.1231 RC3 .1812 FAU .18710 RRT -.5946 RRF -.6603 RTF .9666 CRT .4516 CRS -.3581 CST -.9947
 FDE 9.0672 FRA 9.4261 FC-11.3276 BSP 4732 SGB 1975.1 R23 .0976 R13 -.9675 LSA 3748.2 MSA 149.2 SSA 8.9
 BOE .8189 BRA .6049 BC3 1.4225 FSP -6705 SG1 1963.3 SG2 215.3 TMA 175.27 EL1 1281.7 EL2 79.9 ALF 1.82

LAUNCH DATE DEC 7 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 482.436

RL 147.36 LAL -.00 LOL 74.96 VL 27.837 GAL 4.41 AZL 86.74 MCA 211.91 SMA 129.32 ECC .15899 INC 3.2566 V1 30.233
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.570 GAP 1.01 AZP 92.77 TAL 155.47 TAP 7.38 RCA 108.76 APO 149.88 V2 34.804
 RC 87.691 GL 24.49 GP 2.15 ZAL 51.44 ZAP 101.56 ETS 1.54 ZAE 157.86 ETE 176.93 ZAC 99.05 ETC 166.33 CLP -101.57

PLANETOCENTRIC CONIC

C3 14.472 VHL 3.804 DLA 33.46 RAL 15.97 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.819 DPA 1.13 RAP 5.28 ECC 1.2382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.39 22 57 33 3911.70 -25.05 163.46 240.97 67.07 24 2 45 3311.7 -27.93 155.54
 108.61 3 43 32 3012.12 -25.04 96.51 240.96 67.05 4 33 44 2412.1 -27.92 88.59
 71.39 22 57 33 3911.70 -25.05 163.46 240.97 67.07 24 2 45 3311.7 -27.93 155.54
 108.61 3 43 32 3012.12 -25.04 96.51 240.96 67.05 4 33 44 2412.1 -27.92 88.59
 110.00 4 45 23 2822.63 -29.52 83.68 242.85 71.93 5 32 26 2222.6 -31.70 75.15
 110.00 2 58 48 3149.18 -20.73 104.93 238.74 62.19 3 51 17 2549.2 -24.28 97.59

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.0176 TRA .7972 TC3-1.6426 BAU .3196 SGT 2445.9 SGR 264.0 SG3 1968.3 ST 1592.8 SR 110.9 SS 3444.2
 RDE .0608 RRA -.1152 RC3 .1766 FAU .18184 RRT -.5060 RRF -.5571 RTF .9782 CRT .6417 CRS -.5744 CST -.9963
 FDE 8.7846 FRA 9.1931 FC-10.8782 BSP 6376 SGB 2460.1 R23 .0670 R13 -.9786 LSA 3793.2 MSA 152.5 SSA 9.3
 BOE 1.0195 BRA .8055 BC3 1.6521 FSP -6579 SG1 2449.5 SG2 227.4 TMA 176.85 EL1 1594.4 EL2 85.0 ALF 2.57

LAUNCH DATE DEC 7 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 488.691

RL 147.36 LAL -.00 LOL 74.96 VL 27.836 GAL 4.48 AZL 86.73 MCA 215.07 SMA 129.31 ECC .15968 INC 3.2721 V1 30.233
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.564 GAP 1.41 AZP 92.68 TAL 155.17 TAP 10.24 RCA 108.66 APO 149.95 V2 34.799
 RC 90.065 GL 24.42 GP 1.94 ZAL 51.11 ZAP 106.88 ETS 1.57 ZAE 154.06 ETE 177.50 ZAC 97.03 ETC 166.39 CLP -106.89

PLANETOCENTRIC CONIC

C3 14.683 VHL 3.832 DLA 33.53 RAL 16.36 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 2.880 DPA .05 RAP 3.40 ECC 1.2417
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.25 22 58 13 3917.64 -25.02 163.91 241.60 66.91 24 3 31 3317.6 -27.92 155.99
 108.75 3 45 58 3012.64 -25.01 96.54 241.60 66.90 4 36 10 2412.6 -27.91 88.62
 71.25 22 58 13 3917.64 -25.02 163.91 241.60 66.91 24 3 31 3317.6 -27.92 155.99
 108.75 3 45 58 3012.64 -25.01 96.54 241.60 66.90 4 36 10 2412.6 -27.91 88.62
 110.00 4 44 13 2834.28 -29.27 84.50 243.42 71.90 5 31 27 2234.3 -31.51 76.01
 110.00 3 3 4 3143.99 -20.89 104.62 239.48 62.31 3 55 28 2544.0 -24.43 97.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.2078 TRA .9971 TC3-1.8580 BAU .3663 SGT 2913.3 SGR 265.4 SG3 1877.7 ST 1884.4 SR 134.3 SS 3340.0
 RDE .0807 RRA -.1090 RC3 .1733 FAU .17411 RRT -.4150 RRF -.4579 RTF .9841 CRT .7364 CRS -.6843 CST -.9972
 FDE 8.3904 FRA 8.8682 FC-10.2654 BSP 7982 SGB 2925.4 R23 .0513 R13 -.9843 LSA 3834.1 MSA 155.7 SSA 9.7
 BOE 1.2105 BRA 1.0031 BC3 1.8661 FSP -6366 SG1 2915.4 SG2 241.3 TMA 177.82 EL1 1887.0 EL2 90.7 ALF 3.01

LAUNCH DATE DEC 7 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 494.924

RL 147.36 LAL -0.00 LOL 74.96 VL 27.832 GAL 4.57 AZL 86.71 MCA 218.24 SMA 129.28 ECC .16058 INC 3.2853 V1 30.233
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.558 GAP 1.80 AZP 92.58 TAL 154.83 TAP 13.06 RCA 108.52 APO 150.04 V2 34.795
 RC 92.449 GL 24.29 GP 1.75 ZAL 50.72 ZAP 111.92 ETS 1.58 ZAE 150.47 ETE 177.84 ZAC 95.25 ETC 166.41 CLP-111.93

PLANETOCENTRIC CONIC

C3 14.938 VML 3.865 DLA 33.57 RAL 16.82 RAD 6567.6 VEL 11.676 PTH 2.05 VMP 2.960 DPA -.90 RAP 1.77 ECC 1.2458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.17 22 59 35 3922.98 -24.94 164.29 242.34 66.77 24 4 58 3323.0 -27.87 156.39
 108.83 3 48 18 3014.95 -24.93 96.68 242.34 66.76 4 38 33 2414.9 -27.86 88.78
 71.17 22 59 35 3922.98 -24.94 164.29 242.34 66.77 24 4 58 3323.0 -27.87 156.39
 108.83 3 48 18 3014.95 -24.93 96.68 242.34 66.76 4 38 33 2414.9 -27.86 88.78
 110.00 4 44 28 2843.07 -29.08 85.11 244.13 71.19 5 31 51 2243.1 -31.37 76.65
 110.00 3 6 31 3142.86 -20.93 104.55 240.27 62.34 3 58 54 2542.9 -24.46 97.19

DIFFERENTIAL CORRECTIONS

TDE 1.3866 TRA 1.1915 TC3-2.0508 BAU .4110
 RDE .0991 RRA -.1044 RC3 .1709 FAU .16450
 FDE 7.9233 FRA 8.4822 FC3-9.5339 BSP 9504
 BDE 1.3901 BRA 1.1961 BC3 2.0579 FSP -6079

MID-COURSE EXECUTION ACCURACY

SGT 3351.5 SGR 271.2 SG3 1770.7
 RRT -.3315 RRF -.3692 RTF .9874
 SGB 3362.4 R23 .0423 R13 -.9875
 SG1 3352.7 SG2 255.8 THA 178.45

ORBIT DETERMINATION ACCURACY

ST 2152.2 SR 157.2 SS 3219.8
 CRT .7873 CRS -.7440 CST -.9977
 LSA 3872.8 MSA 158.7 SSA 10.0
 EL1 2155.8 EL2 96.7 ALF 3.30

LAUNCH DATE DEC 7 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 501.136

RL 147.36 LAL -0.00 LOL 74.96 VL 27.827 GAL 4.67 AZL 86.70 MCA 221.40 SMA 129.25 ECC .16170 INC 3.2968 V1 30.233
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.550 GAP 2.19 AZP 92.47 TAL 154.45 TAP 15.84 RCA 108.35 APO 150.15 V2 34.791
 RC 94.840 GL 24.12 GP 1.59 ZAL 50.28 ZAP 116.67 ETS 1.58 ZAE 147.15 ETE 178.05 ZAC 93.76 ETC 166.41 CLP-116.68

PLANETOCENTRIC CONIC

C3 15.237 VML 3.903 DLA 33.58 RAL 17.36 RAD 6567.6 VEL 11.689 PTH 2.06 VMP 3.059 DPA -1.70 RAP .39 ECC 1.2508
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.14 23 1 34 3927.90 -24.83 164.61 243.19 66.63 24 7 1 3327.9 -27.77 156.73
 108.86 3 50 36 3018.92 -24.82 96.94 243.18 66.62 4 40 55 2418.9 -27.76 89.05
 71.14 23 1 34 3927.90 -24.83 164.61 243.19 66.63 24 7 1 3327.9 -27.77 156.73
 108.86 3 50 36 3018.92 -24.82 96.94 243.18 66.62 4 40 55 2418.9 -27.76 89.05
 110.00 4 46 5 2849.10 -28.95 85.53 244.98 70.97 5 33 34 2249.1 -31.27 77.09
 110.00 3 9 10 3145.71 -20.84 104.73 241.12 62.27 4 1 36 2545.7 -24.38 97.37

DIFFERENTIAL CORRECTIONS

TDE 1.5545 TRA 1.3814 TC3-2.2135 BAU .4522
 RDE .1162 RRA -.1011 RC3 .1690 FAU .15295
 FDE 7.4281 FRA 8.0717 FC3-8.6901 BSP 10890
 BDE 1.5588 BRA 1.3851 BC3 2.2200 FSP -5713

MID-COURSE EXECUTION ACCURACY

SGT 3757.2 SGR 279.8 SG3 1655.5
 RRT -.2592 RRF -.2927 RTF .9892
 SGB 3767.6 R23 .0362 R13 -.9893
 SG1 3757.9 SG2 270.2 THA 178.89

ORBIT DETERMINATION ACCURACY

ST 2396.2 SR 178.8 SS 3094.7
 CRT .8168 CRS -.7790 CST -.9980
 LSA 3914.7 MSA 161.7 SSA 10.4
 EL1 2400.7 EL2 103.0 ALF 3.50

LAUNCH DATE DEC 7 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 507.326

RL 147.36 LAL -0.00 LOL 74.96 VL 27.820 GAL 4.78 AZL 86.69 MCA 224.56 SMA 129.20 ECC .16304 INC 3.3069 V1 30.233
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.543 GAP 2.58 AZP 92.36 TAL 154.02 TAP 18.58 RCA 108.14 APO 150.26 V2 34.788
 RC 97.236 GL 23.90 GP 1.44 ZAL 49.78 ZAP 121.11 ETS 1.58 ZAE 144.09 ETE 178.16 ZAC 92.56 ETC 166.40 CLP-121.12

PLANETOCENTRIC CONIC

C3 15.584 VML 3.948 DLA 33.57 RAL 17.96 RAD 6567.6 VEL 11.703 PTH 2.06 VMP 3.174 DPA -2.36 RAP 359.28 ECC 1.2565
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.17 23 4 7 3932.50 -24.69 164.90 244.14 66.49 24 9 39 3332.5 -27.65 157.04
 108.83 3 52 50 3024.47 -24.67 97.30 244.13 66.48 4 43 15 2424.5 -27.64 89.43
 71.17 23 4 7 3932.50 -24.69 164.90 244.14 66.49 24 9 39 3332.5 -27.65 157.04
 108.83 3 52 50 3024.47 -24.67 97.30 244.13 66.48 4 43 15 2424.5 -27.64 89.43
 110.00 4 49 0 2852.59 -28.87 85.77 245.97 70.85 5 36 33 2252.6 -31.20 77.35
 110.00 3 11 4 3152.38 -20.63 105.13 242.02 62.12 4 3 36 2552.4 -24.19 97.79

DIFFERENTIAL CORRECTIONS

TDE 1.7073 TRA 1.5638 TC3-2.3526 BAU .4914
 RDE .1326 RRA -.0988 RC3 .1676 FAU .14157
 FDE 6.9039 FRA 7.6335 FC3-7.8643 BSP 12203
 BDE 1.7124 BRA 1.5669 BC3 2.3586 FSP -5354

MID-COURSE EXECUTION ACCURACY

SGT 4124.4 SGR 290.1 SG3 1535.3
 RRT -.1985 RRF -.2290 RTF .9904
 SGB 4134.6 R23 .0321 R13 -.9904
 SG1 4124.8 SG2 284.3 THA 179.20

ORBIT DETERMINATION ACCURACY

ST 2609.8 SR 199.3 SS 2958.5
 CRT .8354 CRS -.8010 CST -.9982
 LSA 3946.7 MSA 164.6 SSA 10.6
 EL1 2615.1 EL2 109.3 ALF 3.66

LAUNCH DATE DEC 7 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 513.494

RL 147.36 LAL -0.00 LOL 74.96 VL 27.812 GAL 4.91 AZL 86.68 MCA 227.72 SMA 129.14 ECC .16459 INC 3.3159 V1 30.233
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.535 GAP 2.97 AZP 92.23 TAL 153.56 TAP 21.29 RCA 107.89 APO 150.40 V2 34.786
 RC 99.636 GL 23.64 GP 1.31 ZAL 49.22 ZAP 125.24 ETS 1.58 ZAE 141.31 ETE 178.23 ZAC 91.65 ETC 166.38 CLP-125.25

PLANETOCENTRIC CONIC

C3 15.983 VML 3.998 DLA 33.53 RAL 18.62 RAD 6567.6 VEL 11.720 PTH 2.07 VMP 3.305 DPA -2.87 RAP 358.46 ECC 1.2630
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.24 23 7 13 3936.87 -24.51 165.15 245.18 66.36 24 12 49 3336.9 -27.49 157.31
 108.76 3 55 3 3031.55 -24.49 97.76 245.18 66.35 4 45 35 2431.5 -27.47 89.91
 71.24 23 7 13 3936.87 -24.51 165.15 245.18 66.36 24 12 49 3336.9 -27.49 157.31
 108.76 3 55 3 3031.55 -24.49 97.76 245.18 66.35 4 45 35 2431.5 -27.47 89.91
 110.00 4 53 5 2853.88 -28.84 85.86 247.09 70.80 5 40 39 2253.9 -31.18 77.44
 110.00 3 12 17 3162.54 -20.30 105.74 242.98 61.89 4 4 59 2562.5 -23.90 98.44

DIFFERENTIAL CORRECTIONS

TDE 1.8477 TRA 1.7414 TC3-2.4641 BAU .5277
 RDE .1484 RRA -.0971 RC3 .1660 FAU .13007
 FDE 6.3875 FRA 7.1991 FC3-7.0455 BSP 13405
 BDE 1.8536 BRA 1.7441 BC3 2.4697 FSP -4984

MID-COURSE EXECUTION ACCURACY

SGT 4456.2 SGR 301.2 SG3 1416.4
 RRT -.1476 RRF -.1755 RTF .9911
 SGB 4466.4 R23 .0290 R13 -.9911
 SG1 4456.4 SG2 297.9 THA 179.43

ORBIT DETERMINATION ACCURACY

ST 2796.8 SR 218.5 SS 2821.6
 CRT .8475 CRS -.8153 CST -.9983
 LSA 3975.4 MSA 167.5 SSA 10.9
 EL1 2803.0 EL2 115.8 ALF 3.79

LAUNCH DATE DEC 7 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 519.639

RL 147.36 LAL -.00 LOL 74.96 VL 27.803 GAL 5.06 AZL 86.68 MCA 230.88 SMA 129.08 ECC .16637 INC 3.3241 V1 30.233
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.527 GAP 3.35 AZP 92.10 TAL 153.07 TAP 23.95 RCA 107.61 APO 150.55 V2 34.784
 RC 102.038 GL 23.33 GP 1.20 ZAL 48.62 ZAP 129.06 ETS 1.58 ZAE 138.79 ETE 178.26 ZAC 91.04 ETC 166.36 CLP-129.07

PLANETOCENTRIC CONIC

C3 16.437 VHL 4.054 DLA 33.47 RAL 19.35 RAD 6567.7 VEL 11.740 PTH 2.07 VHP 3.450 DPA -3.25 RAP 357.89 ECC 1.2705
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.35 23 10 50 3941.03 -24.29 165.37 246.33 66.23 24 16 31 3341.0 -27.29 157.55
 108.65 3 57 13 3040.17 -24.28 98.32 246.32 66.21 4 47 53 2440.2 -27.28 90.50
 71.35 23 10 50 3941.03 -24.29 165.37 246.33 66.23 24 16 31 3341.0 -27.29 157.55
 108.65 3 57 13 3040.17 -24.28 98.32 246.32 66.21 4 47 53 2440.2 -27.28 90.50
 110.00 4 58 12 2853.38 -28.85 85.83 248.33 70.82 5 45 46 2253.4 -31.19 77.40
 110.00 3 12 57 3175.81 -19.88 106.53 243.99 61.60 4 5 52 2575.8 -23.51 99.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9764 TRA 1.9161 TC3-2.5477 BAU .5610 SGT 4754.8 SGR 312.6 S63 1302.0 ST 2958.7 SR 236.7 SS 2686.9
 RDE .1639 RRA -.0959 RC3 .1640 FAU .11876 RRT -.1043 RRF -.1300 RTF .9914 CRT .8556 CRS -.8249 CST -.9984
 FDE 5.8921 FRA 6.7825 FC3-6.2548 BSP 14499 SGB 4765.0 R23 .0262 R13 -.9914 LSA 4000.0 MSA 170.5 SSA 11.2
 BDE 1.9832 BRA 1.9185 BC3 2.5530 FSP -4619 SG1 4754.9 SG2 310.9 THA 179.61 EL1 2965.6 EL2 122.3 ALF 3.92

LAUNCH DATE DEC 7 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 525.760

RL 147.36 LAL -.00 LOL 74.96 VL 27.793 GAL 5.22 AZL 86.67 MCA 234.04 SMA 129.01 ECC .16836 INC 3.3315 V1 30.233
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.518 GAP 3.75 AZP 91.96 TAL 152.53 TAP 26.58 RCA 107.29 APO 150.73 V2 34.783
 RC 104.441 GL 23.00 GP 1.10 ZAL 47.97 ZAP 132.61 ETS 1.60 ZAE 136.53 ETE 178.28 ZAC 90.69 ETC 166.35 CLP-132.62

PLANETOCENTRIC CONIC

C3 16.952 VHL 4.117 DLA 33.39 RAL 20.13 RAD 6567.7 VEL 11.762 PTH 2.08 VHP 3.608 DPA -3.49 RAP 357.59 ECC 1.2790
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.51 23 14 54 3945.12 -24.04 165.57 247.56 66.09 24 20 39 3345.1 -27.06 157.77
 108.49 3 59 21 3050.21 -24.03 98.98 247.55 66.08 4 50 12 2450.2 -27.05 91.18
 71.51 23 14 54 3945.12 -24.04 165.57 247.56 66.09 24 20 39 3345.1 -27.06 157.77
 108.49 3 59 21 3050.21 -24.03 98.98 247.55 66.08 4 50 12 2450.2 -27.05 91.18
 110.00 5 4 12 2851.53 -28.89 85.70 249.70 70.88 5 51 43 2251.5 -31.22 77.27
 110.00 3 13 11 3191.80 -19.36 107.48 245.07 61.26 4 6 22 2591.8 -23.04 100.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.0948 TRA 2.0890 TC3-2.6048 BAU .5915 SGT 5022.2 SGR 324.0 S63 1194.1 ST 3097.3 SR 254.0 SS 2556.0
 RDE .1793 RRA -.0949 RC3 .1615 FAU .10791 RRT -.0866 RRF -.0901 RTF .9916 CRT .8612 CRS -.8315 CST -.9984
 FDE 5.4260 FRA 6.3887 FC3-5.5108 BSP 15485 SGB 5032.6 R23 .0238 R13 -.9916 LSA 4020.0 MSA 173.5 SSA 11.5
 BDE 2.1025 BRA 2.0911 BC3 2.6098 FSP -4265 SG1 5022.2 SG2 323.2 THA 179.75 EL1 3105.1 EL2 128.8 ALF 4.05

LAUNCH DATE DEC 7 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 531.858

RL 147.36 LAL -.00 LOL 74.96 VL 27.781 GAL 5.39 AZL 86.66 MCA 237.21 SMA 128.93 ECC .17059 INC 3.3384 V1 30.233
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.509 GAP 4.14 AZP 91.81 TAL 151.96 TAP 29.17 RCA 106.93 APO 150.92 V2 34.783
 RC 106.844 GL 22.62 GP 1.01 ZAL 47.28 ZAP 135.89 ETS 1.62 ZAE 134.50 ETE 178.28 ZAC 90.60 ETC 166.34 CLP-135.89

PLANETOCENTRIC CONIC

C3 17.531 VHL 4.187 DLA 33.29 RAL 20.96 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 3.777 DPA -3.62 RAP 357.51 ECC 1.2885
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.71 23 19 28 3949.07 -23.76 165.74 248.89 65.96 24 25 17 3349.1 -26.80 157.97
 108.29 4 1 26 3061.80 -23.75 99.74 248.88 65.95 4 52 27 2461.8 -26.79 91.97
 71.71 23 19 28 3949.07 -23.76 165.74 248.89 65.96 24 25 17 3349.1 -26.80 157.97
 108.29 4 1 26 3061.80 -23.75 99.74 248.88 65.95 4 52 27 2461.8 -26.79 91.97
 110.00 5 10 55 2848.71 -28.96 85.50 251.17 70.98 5 58 23 2248.7 -31.27 77.06
 110.00 3 13 5 3210.15 -18.75 108.56 246.20 60.88 4 6 35 2610.1 -22.49 101.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2064 TRA 2.2646 TC3-2.6320 BAU .6180 SGT 5264.9 SGR 335.0 S63 1094.8 ST 3218.3 SR 270.5 SS 2434.2
 RDE .1948 RRA -.0940 RC3 .1581 FAU .09726 RRT -.0325 RRF -.0535 RTF .9915 CRT .8651 CRS -.8361 CST -.9984
 FDE 5.0020 FRA 6.0323 FC3-4.8027 BSP 16319 SGB 5275.5 R23 .0212 R13 -.9915 LSA 4040.4 MSA 176.6 SSA 11.8
 BDE 2.2150 BRA 2.2665 BC3 2.6368 FSP -3909 SG1 5264.9 SG2 334.8 THA 179.88 EL1 3226.8 EL2 135.4 ALF 4.17

LAUNCH DATE DEC 7 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 537.931

RL 147.36 LAL -.00 LOL 74.96 VL 27.769 GAL 5.59 AZL 86.66 MCA 240.37 SMA 128.84 ECC .17306 INC 3.3448 V1 30.233
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.501 GAP 4.54 AZP 91.66 TAL 151.36 TAP 31.73 RCA 106.54 APO 151.14 V2 34.784
 RC 109.246 GL 22.22 GP .93 ZAL 46.55 ZAP 138.93 ETS 1.66 ZAE 132.68 ETE 178.28 ZAC 90.74 ETC 166.35 CLP-138.93

PLANETOCENTRIC CONIC

C3 18.182 VHL 4.264 DLA 33.17 RAL 21.84 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 3.957 DPA -3.64 RAP 357.66 ECC 1.2992
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.95 23 24 28 3952.90 -23.44 165.88 250.30 65.83 24 30 21 3352.9 -26.50 158.14
 108.05 4 3 25 3074.93 -23.43 100.60 250.29 65.82 4 54 40 2474.9 -26.49 92.86
 71.95 23 24 28 3952.90 -23.44 165.88 250.30 65.83 24 30 21 3352.9 -26.50 158.14
 108.05 4 3 25 3074.93 -23.43 100.60 250.29 65.82 4 54 40 2474.9 -26.49 92.86
 110.00 5 18 14 2845.28 -29.03 85.26 252.76 71.11 6 5 39 2245.3 -31.33 76.81
 110.00 3 12 45 3230.55 -18.07 109.75 247.39 60.48 4 6 36 2630.5 -21.86 102.67

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3073 TRA 2.4390 TC3-2.6418 BAU .6432 SGT 5478.9 SGR 345.6 S63 1002.4 ST 3316.1 SR 286.4 SS 2314.2
 RDE .2105 RRA -.0929 RC3 .1539 FAU .08781 RRT -.0013 RRF -.0203 RTF .9914 CRT .8678 CRS -.8392 CST -.9985
 FDE 4.6042 FRA 5.6957 FC3-4.1809 BSP 17126 SGB 5489.8 R23 .0190 R13 -.9914 LSA 4049.9 MSA 179.9 SSA 12.1
 BDE 2.3169 BRA 2.4407 BC3 2.6463 FSP -3599 SG1 5478.9 SG2 345.6 THA 180.00 EL1 3325.4 EL2 141.9 ALF 4.29

LAUNCH DATE DEC 7 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 543.979

RL 147.36 LAL -.00 LOL 74.96 VL 27.755 GAL 5.80 AZL 86.65 MCA 243.53 SMA 128.75 ECC .17578 INC 3.3509 V1 30.233
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.492 GAP 4.94 AZP 91.50 TAL 150.73 TAP 34.26 RCA 106.11 APO 151.38 V2 34.785
 RC 111.645 GL 21.79 GP .86 ZAL 45.78 ZAP 141.75 ETS 1.70 ZAE 131.06 ETE 178.27 ZAC 91.08 ETC 166.36 CLP-141.76

PLANETOCENTRIC CONIC

C3 18.910 VHL 4.349 OLA 33.04 RAL 22.75 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 4.148 DPA -3.57 RAP 357.99 ECC 1.3112
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.23 23 29 54 3956.68 -23.09 166.00 251.80 65.69 24 35 50 3356.7 -26.17 158.29
 107.77 4 5 19 3089.59 -23.08 101.56 251.79 65.68 4 56 49 2489.6 -26.17 93.85
 72.23 23 29 54 3956.68 -23.09 166.00 251.80 65.69 24 35 50 3356.7 -26.17 158.29
 107.77 4 5 19 3089.59 -23.08 101.56 251.79 65.68 4 56 49 2489.6 -26.17 93.85
 110.00 5 26 3 2841.52 -29.11 85.00 254.44 71.24 6 13 25 2241.5 -31.39 76.54
 110.00 3 12 16 3252.74 -17.32 111.03 248.65 60.06 4 6 28 2652.7 -21.17 104.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4005 TRA 2.6157 TC3-2.6322 BAU .6665 SGT 5669.7 SGR 355.7 SG3 917.8 ST 3395.5 SR 301.6 SS 2200.0
 RDE .2265 RRA -.0915 RC3 .1488 FAU .07912 RRT .0281 RRF .0111 RTF .9911 CRT .8696 CRS -.8414 CST -.9985
 FDE 4.2404 FRA 5.3882 FC3-3.6222 BSP 17867 SGB 5680.8 R23 -.0168 R13 .9911 LSA 4053.0 MSA 183.2 SSA 12.3
 BOE 2.4112 BRA 2.6173 BC3 2.6364 FSP -3313 SGI 5669.7 SG2 355.5 THA .10 EL1 3405.6 EL2 148.5 ALF 4.43

LAUNCH DATE DEC 7 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 549.999

RL 147.36 LAL -.00 LOL 74.96 VL 27.741 GAL 6.03 AZL 86.64 MCA 246.69 SMA 128.65 ECC .17876 INC 3.3566 V1 30.233
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.483 GAP 5.35 AZP 91.33 TAL 150.07 TAP 36.76 RCA 105.65 APO 151.64 V2 34.787
 RC 114.042 GL 21.33 GP .80 ZAL 44.98 ZAP 144.37 ETS 1.76 ZAE 129.61 ETE 178.27 ZAC 91.62 ETC 166.38 CLP-144.38

PLANETOCENTRIC CONIC

C3 19.725 VHL 4.441 OLA 32.88 RAL 23.71 RAD 6567.8 VEL 11.879 PTH 2.11 VHP 4.350 DPA -3.41 RAP 358.51 ECC 1.3246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.55 23 35 46 3960.25 -22.71 166.08 253.37 65.56 24 41 47 3360.3 -25.81 158.41
 107.45 4 7 3 3105.95 -22.70 102.63 253.37 65.55 4 58 49 2506.0 -25.80 94.95
 72.55 23 35 46 3960.25 -22.71 166.08 253.37 65.56 24 41 47 3360.3 -25.81 158.41
 107.45 4 7 3 3105.95 -22.70 102.63 253.37 65.55 4 58 49 2506.0 -25.80 94.95
 110.00 5 34 17 2837.67 -29.20 84.73 256.22 71.38 6 21 34 2237.7 -31.46 76.26
 110.00 3 11 40 3276.54 -16.51 112.40 249.96 59.63 4 6 16 2676.5 -20.42 105.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4882 TRA 2.7974 TC3-2.6029 BAU .6874 SGT 5840.8 SGR 365.1 SG3 841.1 ST 3459.8 SR 316.1 SS 2092.7
 RDE .2429 RRA -.0897 RC3 .1429 FAU .07111 RRT .0565 RRF .0416 RTF .9908 CRT .8708 CRS -.8427 CST -.9985
 FDE 3.9110 FRA 5.1102 FC3-3.1213 BSP 18534 SGB 5852.2 R23 -.0147 R13 .9908 LSA 4051.5 MSA 186.7 SSA 12.4
 BOE 2.5000 BRA 2.7988 BC3 2.6068 FSP -3049 SGI 5840.8 SG2 364.5 THA .20 EL1 3470.8 EL2 154.9 ALF 4.56

LAUNCH DATE DEC 7 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 555.992

RL 147.36 LAL -.00 LOL 74.96 VL 27.726 GAL 6.27 AZL 86.64 MCA 249.85 SMA 128.54 ECC .18201 INC 3.3620 V1 30.233
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.475 GAP 5.76 AZP 91.16 TAL 149.38 TAP 39.23 RCA 105.14 APO 151.94 V2 34.790
 RC 116.435 GL 20.84 GP .75 ZAL 44.15 ZAP 146.82 ETS 1.83 ZAE 128.32 ETE 178.27 ZAC 92.32 ETC 166.41 CLP-146.83

PLANETOCENTRIC CONIC

C3 20.634 VHL 4.542 OLA 32.70 RAL 24.70 RAD 6567.8 VEL 11.917 PTH 2.12 VHP 4.561 DPA -3.16 RAP 359.18 ECC 1.3396
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.91 23 42 4 3963.70 -22.30 166.14 255.03 65.43 24 48 8 3363.7 -25.42 158.51
 107.09 4 8 38 3124.00 -22.28 103.81 255.02 65.42 5 0 42 2524.0 -25.41 96.17
 72.91 23 42 4 3963.70 -22.30 166.14 255.03 65.43 24 48 8 3363.7 -25.42 158.51
 107.09 4 8 38 3124.00 -22.28 103.81 255.02 65.42 5 0 42 2524.0 -25.41 96.17
 110.00 5 42 49 2833.93 -29.28 84.47 258.08 71.52 6 30 3 2233.9 -31.52 75.98
 110.00 3 11 0 3301.77 -15.63 113.83 251.33 59.21 4 6 2 2701.8 -19.60 106.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.5717 TRA 2.9855 TC3-2.5548 BAU .7058 SGT 5994.6 SGR 373.9 SG3 771.6 ST 3511.4 SR 330.0 SS 1992.8
 RDE .2598 RRA -.0873 RC3 .1361 FAU .06370 RRT .0847 RRF .0718 RTF .9905 CRT .8715 CRS -.8436 CST -.9985
 FDE 3.6148 FRA 4.8604 FC3-2.6725 BSP 19121 SGB 6006.3 R23 -.0125 R13 .9905 LSA 4046.4 MSA 190.2 SSA 12.6
 BOE 2.5848 BRA 2.9868 BC3 2.5584 FSP -2804 SGI 5994.7 SG2 372.5 THA .30 EL1 3523.1 EL2 161.3 ALF 4.69

LAUNCH DATE DEC 7 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 561.954

RL 147.36 LAL -.00 LOL 74.96 VL 27.710 GAL 6.54 AZL 86.63 MCA 253.01 SMA 128.43 ECC .18556 INC 3.3672 V1 30.233
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.466 GAP 6.18 AZP 90.98 TAL 148.66 TAP 41.68 RCA 104.60 APO 152.26 V2 34.794
 RC 118.823 GL 20.34 GP .70 ZAL 43.29 ZAP 149.12 ETS 1.90 ZAE 127.16 ETE 178.28 ZAC 93.17 ETC 166.44 CLP-149.13

PLANETOCENTRIC CONIC

C3 21.649 VHL 4.653 OLA 32.51 RAL 25.71 RAD 6567.9 VEL 11.959 PTH 2.13 VHP 4.783 DPA -2.85 RAP 360.00 ECC 1.3563
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.32 23 48 46 3967.06 -21.85 166.18 256.75 65.31 24 54 53 3367.1 -24.99 158.58
 106.68 4 10 3 3143.73 -21.83 105.10 256.74 65.29 5 2 27 2543.7 -24.98 97.50
 73.32 23 48 46 3967.06 -21.85 166.18 256.75 65.31 24 54 53 3367.1 -24.99 158.58
 106.68 4 10 3 3143.73 -21.83 105.10 256.74 65.29 5 2 27 2543.7 -24.98 97.50
 110.00 5 51 38 2830.45 -29.35 84.23 260.03 71.64 6 38 48 2230.4 -31.58 75.73
 110.00 3 10 18 3328.34 -14.70 115.32 252.76 58.79 4 5 46 2728.3 -18.73 108.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6533 TRA 3.1833 TC3-2.4876 BAU .7210 SGT 6135.2 SGR 382.0 SG3 709.2 ST 3553.2 SR 343.2 SS 1900.8
 RDE .2771 RRA -.0843 RC3 .1288 FAU .05675 RRT .1131 RRF .1022 RTF .9901 CRT .8717 CRS -.8440 CST -.9985
 FDE 3.3504 FRA 4.6391 FC3-2.2696 BSP 19596 SGB 6147.1 R23 -.0103 R13 .9901 LSA 4039.6 MSA 193.8 SSA 12.8
 BOE 2.6678 BRA 3.1844 BC3 2.4910 FSP -2571 SGI 6135.4 SG2 379.6 THA .40 EL1 3565.8 EL2 167.6 ALF 4.82

LAUNCH DATE DEC 7 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 567.884

RL 147.36 LAL -.00 LOL 74.96 VL 27.693 GAL 6.83 AZL 86.63 MCA 256.18 SMA 128.32 ECC .18941 INC 3.3723 V1 30.233
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.458 GAP 6.62 AZP 90.81 TAL 147.92 TAP 44.10 RCA 104.01 APO 152.62 V2 34.798
 RC 121.206 GL 19.81 GP .66 ZAL 42.41 ZAP 151.27 ETS 1.99 ZAE 126.12 ETE 178.29 ZAC 94.16 ETC 166.48 CLP-151.28

PLANETOCENTRIC CONIC

C3 22.782 VHL 4.773 OLA 32.30 RAL 26.75 RAD 6567.9 VEL 12.007 PTH 2.14 VHP 5.016 DPA -2.48 RAP .93 ECC 1.3749
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.77 23 55 53 3970.16 -21.36 166.18 258.55 65.18 25 2 3 3370.2 -24.53 158.61
 106.23 4 11 13 3165.34 -21.35 106.51 258.54 65.17 5 3 58 2565.3 -24.52 98.95
 73.77 23 55 53 3970.16 -21.36 166.18 258.55 65.18 25 2 3 3370.2 -24.53 158.61
 106.23 4 11 13 3165.34 -21.35 106.51 258.54 65.17 5 3 58 2565.3 -24.52 98.95
 110.00 6 0 39 2827.35 -29.42 84.01 262.06 71.75 6 47 46 2227.3 -31.63 75.50
 110.00 3 9 34 3356.15 -13.72 116.88 254.25 58.38 4 5 30 2756.1 -17.80 110.14

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.7285 TRA 3.3863 TC3-2.4125 BAU .7357 SGT 6257.6 SGR 389.4 SG3 652.1 ST 3579.6 SR 355.6 SS 1812.0
 RDE .2948 RRA -.0805 RC3 .1208 FAU .05067 RRT .1410 RRF .1319 RTF .9896 CRT .8716 CRS -.8440 CST -.9985
 FDE 3.1067 FRA 4.4351 FC3-1.9253 BSP 20091 SGB 6269.7 R23 -.0083 R13 .9896 LSA 4023.0 MSA 197.4 SSA 12.8
 BDE 2.7444 BRA 3.3873 BC3 2.4155 FSP -2371 SG1 6257.9 SG2 385.5 THA .50 EL1 3593.0 EL2 173.7 ALF 4.96

LAUNCH DATE DEC 7 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 573.780

RL 147.36 LAL -.00 LOL 74.96 VL 27.676 GAL 7.14 AZL 86.62 MCA 259.34 SMA 128.20 ECC .19359 INC 3.3772 V1 30.233
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.449 GAP 7.06 AZP 90.63 TAL 147.17 TAP 46.51 RCA 103.38 APO 153.02 V2 34.803
 RC 123.581 GL 19.26 GP .62 ZAL 41.51 ZAP 153.30 ETS 2.08 ZAE 125.19 ETE 178.30 ZAC 95.27 ETC 166.51 CLP-153.31

PLANETOCENTRIC CONIC

C3 24.047 VHL 4.904 OLA 32.07 RAL 27.81 RAD 6568.0 VEL 12.059 PTH 2.16 VHP 5.260 DPA -2.05 RAP 1.98 ECC 1.3958
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.27 0 7 22 3972.98 -20.85 166.13 260.41 65.06 1 13 35 3373.0 -24.03 158.61
 105.73 4 12 6 3188.91 -20.83 108.05 260.40 65.05 5 5 15 2588.9 -24.02 100.53
 74.27 0 7 22 3972.98 -20.85 166.13 260.41 65.06 1 13 35 3373.0 -24.03 158.61
 105.73 4 12 6 3188.91 -20.83 108.05 260.40 65.05 5 5 15 2588.9 -24.02 100.53
 110.00 6 9 49 2824.74 -29.48 83.83 264.17 71.85 6 56 54 2224.7 -31.67 75.31
 110.00 3 8 49 3385.15 -12.67 118.48 255.78 57.98 4 5 15 2785.1 -16.81 111.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.8015 TRA 3.5991 TC3-2.3250 BAU .7483 SGT 6367.2 SGR 396.1 SG3 600.4 ST 3596.6 SR 367.2 SS 1729.4
 RDE .3131 RRA -.0759 RC3 .1124 FAU .04508 RRT .1692 RRF .1618 RTF .9892 CRT .8712 CRS -.8438 CST -.9985
 FDE 2.8878 FRA 4.2523 FC3-1.6231 BSP 20537 SGB 6379.5 R23 -.0063 R13 .9892 LSA 4002.6 MSA 200.9 SSA 12.9
 BDE 2.8189 BRA 3.5999 BC3 2.3277 FSP -2187 SG1 6367.5 SG2 390.4 THA .61 EL1 3610.8 EL2 179.5 ALF 5.09

LAUNCH DATE DEC 7 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 579.638

RL 147.36 LAL -.00 LOL 74.96 VL 27.658 GAL 7.48 AZL 86.62 MCA 262.51 SMA 128.08 ECC .19812 INC 3.3820 V1 30.233
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.441 GAP 7.52 AZP 90.44 TAL 146.39 TAP 48.90 RCA 102.70 APO 153.45 V2 34.808
 RC 125.948 GL 18.70 GP .58 ZAL 40.60 ZAP 155.23 ETS 2.19 ZAE 124.35 ETE 178.32 ZAC 96.48 ETC 166.54 CLP-155.23

PLANETOCENTRIC CONIC

C3 25.461 VHL 5.046 OLA 31.83 RAL 28.88 RAD 6568.0 VEL 12.118 PTH 2.17 VHP 5.516 DPA -1.57 RAP 3.13 ECC 1.4190
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.82 0 15 21 3975.39 -20.30 166.04 262.33 64.94 1 21 36 3375.4 -23.50 158.56
 105.18 4 12 39 3214.60 -20.28 109.73 262.32 64.93 5 6 14 2614.6 -23.49 102.25
 74.82 0 15 21 3975.39 -20.30 166.04 262.33 64.94 1 21 36 3375.4 -23.50 158.56
 105.18 4 12 39 3214.60 -20.28 109.73 262.32 64.93 5 6 14 2614.6 -23.49 102.25
 110.00 6 19 6 2822.71 -29.52 83.69 266.34 71.92 7 6 9 2222.7 -31.70 75.16
 110.00 3 8 4 3415.28 -11.58 120.13 257.37 57.61 4 5 0 2815.3 -15.77 113.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.8720 TRA 3.8228 TC3-2.2277 BAU .7591 SGT 6464.6 SGR 402.1 SG3 553.7 ST 3604.0 SR 377.8 SS 1652.0
 RDE .3318 RRA -.0702 RC3 .1037 FAU .04001 RRT .1976 RRF .1917 RTF .9888 CRT .8705 CRS -.8432 CST -.9986
 FDE 2.6896 FRA 4.0883 FC3-1.3605 BSP 20945 SGB 6477.1 R23 -.0045 R13 .9888 LSA 3977.3 MSA 204.4 SSA 12.9
 BDE 2.8911 BRA 3.8234 BC3 2.2301 FSP -2020 SG1 6465.1 SG2 394.2 THA .71 EL1 3619.1 EL2 185.2 ALF 5.23

LAUNCH DATE DEC 7 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 585.454

RL 147.36 LAL -.00 LOL 74.96 VL 27.640 GAL 7.85 AZL 86.61 MCA 265.67 SMA 127.95 ECC .20304 INC 3.3868 V1 30.233
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.434 GAP 8.00 AZP 90.26 TAL 145.60 TAP 51.27 RCA 101.97 APO 153.93 V2 34.815
 RC 128.306 GL 18.12 GP .55 ZAL 39.67 ZAP 157.05 ETS 2.31 ZAE 123.58 ETE 178.35 ZAC 97.79 ETC 166.56 CLP-157.06

PLANETOCENTRIC CONIC

C3 27.042 VHL 5.200 OLA 31.57 RAL 29.96 RAD 6568.1 VEL 12.183 PTH 2.19 VHP 5.785 DPA -1.04 RAP 4.37 ECC 1.4450
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.43 0 23 47 3977.40 -19.71 165.90 264.31 64.83 1 30 4 3377.4 -22.94 158.46
 104.57 4 12 50 3242.44 -19.70 111.55 264.31 64.82 5 6 52 2642.4 -22.92 104.11
 75.43 0 23 47 3977.40 -19.71 165.90 264.31 64.83 1 30 4 3377.4 -22.94 158.46
 104.57 4 12 50 3242.44 -19.70 111.55 264.31 64.82 5 6 52 2642.4 -22.92 104.11
 110.00 6 28 28 2821.33 -29.55 83.59 268.59 71.97 7 15 29 2221.3 -31.72 75.06
 110.00 3 7 19 3446.51 -10.44 121.82 259.01 57.26 4 4 46 2846.5 -14.68 115.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.9418 TRA 4.0588 TC3-2.1208 BAU .7675 SGT 6551.4 SGR 407.4 SG3 511.3 ST 3604.1 SR 387.5 SS 1580.2
 RDE .3509 RRA -.0635 RC3 .0949 FAU .03533 RRT .2265 RRF .2220 RTF .9883 CRT .8696 CRS -.8426 CST -.9986
 FDE 2.5113 FRA 3.9415 FC3-1.1310 BSP 21311 SGB 6564.0 R23 -.0028 R13 .9883 LSA 3948.8 MSA 207.8 SSA 12.9
 BDE 2.9626 BRA 4.0593 BC3 2.1229 FSP -1868 SG1 6552.0 SG2 396.8 THA .81 EL1 3619.9 EL2 190.5 ALF 5.36

LAUNCH DATE DEC 7 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 591.226

RL 147.36 LAL -.00 LOL 74.96 VL 27.621 GAL 8.24 AZL 86.61 MCA 268.84 SMA 127.82 ECC .20838 INC 3.3915 V1 30.233
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.426 GAP 8.49 AZP 90.07 TAL 144.80 TAP 53.64 RCA 101.19 APO 154.46 V2 34.821
 RC 130.653 GL 17.53 GP .53 ZAL 38.74 ZAP 158.79 ETS 2.44 ZAE 122.89 ETE 178.38 ZAC 99.18 ETC 166.58 CLP-158.80

PLANETOCENTRIC CONIC

C3 28.814 VHL 5.368 DLA 31.29 RAL 31.04 RAD 6568.2 VEL 12.255 PTH 2.20 VHP 6.068 DPA -.48 RAP 5.68 ECC 1.4742
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.09 0 32 42 3978.79 -19.09 165.70 266.35 64.72 1 39 0 3378.8 -22.34 158.30
 103.91 4 12 34 3272.69 -19.08 113.53 266.34 64.71 5 7 6 2672.7 -22.33 106.13
 76.09 0 32 42 3978.79 -19.09 165.70 266.35 64.72 1 39 0 3378.8 -22.34 158.30
 103.91 4 12 34 3272.69 -19.08 113.53 266.34 64.71 5 7 6 2672.7 -22.33 106.13
 110.00 6 37 53 2820.66 -29.56 83.54 270.90 72.00 7 24 53 2220.7 -31.73 75.01
 110.00 3 6 33 3478.82 -9.24 123.56 260.69 56.94 4 4 32 2878.8 -13.53 117.09

DIFFERENTIAL CORRECTIONS

TOE 3.0136 TRA 4.3115 TC3-2.0029 BAU .7723
 RDE .3706 RRA -.0555 RC3 .0862 FAU .03089
 FDE 2.3531 FRA 3.8135 FC3 -.9282 BSP 21565
 BOE 3.0363 BRA 4.3118 BC3 2.0047 FSP -1720

MID-COURSE EXECUTION ACCURACY

SGT 6631.3 SGR 412.1 SG3 473.2
 RRT .2561 RRF .2530 RTF .9879
 SGB 6644.1 R23 -.0010 R13 .9879
 SG1 6632.1 SG2 398.3 THA .92

ORBIT DETERMINATION ACCURACY

ST 3600.2 SR 396.1 SS 1515.0
 CRT .8685 CRS -.8418 CST -.9986
 LSA 3920.3 MSA 210.9 SSA 12.8
 EL1 3616.6 EL2 195.4 ALF 5.47

LAUNCH DATE DEC 7 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 596.947

RL 147.36 LAL -.00 LOL 74.96 VL 27.602 GAL 8.66 AZL 86.60 MCA 272.01 SMA 127.69 ECC .21416 INC 3.3962 V1 30.233
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.419 GAP 9.01 AZP 89.88 TAL 143.99 TAP 56.00 RCA 100.35 APO 155.04 V2 34.829
 RC 132.989 GL 16.93 GP .50 ZAL 37.80 ZAP 160.46 ETS 2.57 ZAE 122.26 ETE 178.41 ZAC 100.64 ETC 166.59 CLP-160.46

PLANETOCENTRIC CONIC

C3 30.803 VHL 5.550 DLA 31.00 RAL 32.12 RAD 6568.2 VEL 12.336 PTH 2.22 VHP 6.366 DPA .12 RAP 7.06 ECC 1.5069
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.82 0 42 10 3979.28 -18.44 165.41 268.44 64.63 1 48 29 3379.3 -21.71 158.05
 103.18 4 11 44 3305.65 -18.43 115.69 268.43 64.62 5 6 49 2705.6 -21.69 108.33
 76.82 0 42 10 3979.28 -18.44 165.41 268.44 64.63 1 48 29 3379.3 -21.71 158.05
 103.18 4 11 44 3305.65 -18.43 115.69 268.43 64.62 5 6 49 2705.6 -21.69 108.33
 110.00 6 47 18 2820.74 -29.56 83.55 273.27 72.00 7 34 19 2220.7 -31.73 75.01
 110.00 3 5 46 3512.19 -8.00 125.34 262.42 56.65 4 4 18 2912.2 -12.33 118.93

DIFFERENTIAL CORRECTIONS

TOE 3.0821 TRA 4.5756 TC3-1.8837 BAU .7764
 RDE .3906 RRA -.0463 RC3 .0775 FAU .02700
 FDE 2.2069 FRA 3.6960 FC3 -.7588 BSP 21879
 BOE 3.1067 BRA 4.5759 BC3 1.8853 FSP -1595

MID-COURSE EXECUTION ACCURACY

SGT 6698.2 SGR 416.1 SG3 438.1
 RRT .2855 RRF .2834 RTF .9875
 SGB 6711.2 R23 .0005 R13 .9875
 SG1 6699.3 SG2 398.7 THA 1.02

ORBIT DETERMINATION ACCURACY

ST 3586.2 SR 403.6 SS 1452.5
 CRT .8672 CRS -.8409 CST -.9987
 LSA 3684.3 MSA 213.8 SSA 12.7
 EL1 3603.3 EL2 200.0 ALF 5.59

LAUNCH DATE DEC 7 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 602.611

RL 147.36 LAL -.00 LOL 74.96 VL 27.582 GAL 9.11 AZL 86.60 MCA 275.18 SMA 127.56 ECC .22044 INC 3.4009 V1 30.233
 RP 108.78 LAP -3.39 LOP 350.14 VP 37.412 GAP 9.55 AZP 89.69 TAL 143.18 TAP 58.35 RCA 99.44 APO 155.68 V2 34.837
 RC 135.313 GL 16.32 GP .48 ZAL 36.86 ZAP 162.06 ETS 2.73 ZAE 121.68 ETE 178.45 ZAC 102.16 ETC 166.59 CLP-162.06

PLANETOCENTRIC CONIC

C3 33.041 VHL 5.748 DLA 30.70 RAL 33.20 RAD 6568.3 VEL 12.426 PTH 2.25 VHP 6.680 DPA .75 RAP 8.49 ECC 1.5438
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.62 0 52 16 3978.60 -17.76 165.02 270.57 64.54 1 58 34 3378.6 -21.04 157.70
 102.38 4 10 14 3341.61 -17.75 118.05 270.57 64.53 5 5 56 2741.6 -21.03 110.73
 77.62 0 52 16 3978.60 -17.76 165.02 270.57 64.54 1 58 34 3378.6 -21.04 157.70
 102.38 4 10 14 3341.61 -17.75 118.05 270.57 64.53 5 5 56 2741.6 -21.03 110.73
 110.00 6 56 43 2821.61 -29.54 83.61 275.69 71.96 7 43 45 2221.6 -31.72 75.08
 110.00 3 4 57 3546.60 -6.71 127.17 264.18 56.40 4 4 4 2946.6 -11.08 120.80

DIFFERENTIAL CORRECTIONS

TOE 3.1511 TRA 4.8561 TC3-1.7596 BAU .7779
 RDE .4110 RRA -.0357 RC3 .0691 FAU .02339
 FDE 2.0749 FRA 3.5916 FC3 -.6129 BSP 22158
 BOE 3.1778 BRA 4.8562 BC3 1.7610 FSP -1480

MID-COURSE EXECUTION ACCURACY

SGT 6756.3 SGR 419.4 SG3 406.2
 RRT .3152 RRF .3140 RTF .9871
 SGB 6769.3 R23 .0018 R13 .9871
 SG1 6757.6 SG2 397.9 THA 1.12

ORBIT DETERMINATION ACCURACY

ST 3566.7 SR 409.9 SS 1394.6
 CRT .8658 CRS -.8399 CST -.9987
 LSA 3845.4 MSA 216.4 SSA 12.6
 EL1 3584.3 EL2 204.1 ALF 5.70

LAUNCH DATE DEC 7 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 608.211

RL 147.36 LAL -.00 LOL 74.96 VL 27.562 GAL 9.61 AZL 86.59 MCA 278.35 SMA 127.43 ECC .22727 INC 3.4057 V1 30.233
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.406 GAP 10.11 AZP 89.51 TAL 142.36 TAP 60.71 RCA 98.47 APO 156.38 V2 34.846
 RC 137.625 GL 15.71 GP .46 ZAL 35.93 ZAP 163.60 ETS 2.89 ZAE 121.15 ETE 178.50 ZAC 103.74 ETC 166.57 CLP-163.61

PLANETOCENTRIC CONIC

C3 35.564 VHL 5.964 DLA 30.38 RAL 34.27 RAD 6568.4 VEL 12.527 PTH 2.27 VHP 7.013 DPA 1.41 RAP 9.98 ECC 1.5853
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.51 1 3 4 3976.43 -17.05 164.50 272.75 64.47 2 9 20 3376.4 -20.34 157.22
 101.49 4 7 58 3380.93 -17.03 120.63 272.75 64.46 5 4 19 2780.9 -20.33 113.35
 78.51 1 3 4 3976.43 -17.05 164.50 272.75 64.47 2 9 20 3376.4 -20.34 157.22
 101.49 4 7 58 3380.93 -17.03 120.63 272.75 64.46 5 4 19 2780.9 -20.33 113.35
 110.00 7 6 5 2823.31 -29.51 83.73 278.17 71.90 7 53 9 2223.3 -31.69 75.20
 110.00 3 4 7 3582.04 -5.37 129.04 265.99 56.19 4 3 49 2982.0 -9.77 122.72

DIFFERENTIAL CORRECTIONS

TOE 3.2219 TRA 5.1552 TC3-1.6317 BAU .7764
 RDE .4318 RRA -.0236 RC3 .0611 FAU .02005
 FDE 1.9564 FRA 3.4996 FC3 -.4880 BSP 22404
 BOE 3.2507 BRA 5.1552 BC3 1.6329 FSP -1374

MID-COURSE EXECUTION ACCURACY

SGT 6806.7 SGR 422.1 SG3 377.2
 RRT .3453 RRF .3447 RTF .9869
 SGB 6819.8 R23 .0030 R13 .9869
 SG1 6808.3 SG2 396.0 THA 1.23

ORBIT DETERMINATION ACCURACY

ST 3542.9 SR 415.0 SS 1341.4
 CRT .8642 CRS -.8389 CST -.9988
 LSA 3804.7 MSA 218.6 SSA 12.5
 EL1 3561.1 EL2 207.7 ALF 5.80

LAUNCH DATE DEC 8 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 16 1969

HELIOCENTRIC CONIC

DISTANCE 131.919

RL 147.35 LAL -0.00 LOL 75.97 VL 16.593 GAL 25.81 AZL 86.64 MCA 38.93 SMA 86.96 ECC .76174 INC 3.3630 V1 30.237
 RP 107.51 LAP 2.11 LOP 114.86 VP 30.706 GAP -48.18 AZP 87.38 TAL 170.95 TAP 209.88 RCA 20.72 APO 153.21 V2 35.249
 RC 80.975 GL 2.94 GP -0.03 ZAL 64.12 ZAP 32.92 ETS 178.87 ZAE 135.06 ETE 187.25 ZAC 63.36 ETC 162.94 CLP 32.92

PLANETOCENTRIC CONIC

C3 291.027 VHL 17.060 DLA 7.41 RAL 9.77 RAD 6571.7 VEL 20.306 PTH 3.16 VHP 27.185 DPA -15.29 RAP 331.14 ECC 5.7896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 9 3016.76 -27.89 97.65 276.60 84.90 6 47 26 2416.8 -28.31 89.01
 90.00 19 46 37 5197.34 26.09 233.07 269.06 78.58 21 13 14 4597.3 24.25 224.88
 100.00 7 22 3 2742.94 -29.51 77.67 276.76 85.00 8 7 46 2142.9 -29.89 68.89
 100.00 21 4 24 4946.40 27.68 214.25 268.69 78.23 22 26 50 4346.4 25.78 205.96
 110.00 8 38 25 2503.95 -33.89 59.97 277.20 85.25 9 20 9 1904.0 -34.18 50.73
 110.00 22 4 31 4758.15 31.98 198.89 267.62 77.22 23 23 49 4158.2 29.89 190.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8295 TRA-2.0195 TC3 -.1126 BAU .4403 SGT 832.4 SGR 452.8 SG3 25.8 ST 346.2 SR 408.5 SS 341.0
 RDE-1.2031 RRA .5917 RC3 -.0118 FAU .01170 RRT -.0240 RRF .0208 RTF -.6268 CRT .7088 CRS .7809 CST .9925
 FDE .3736 FRA .7178 FC3 -.0348 BSP 2035 SGB 947.6 R23 .0006 R13 .6268 LSA 593.9 MSA 223.7 SSA 13.9
 BOE 1.4613 BRA 2.1044 BC3 .1132 FSP -53 SG1 832.5 SG2 452.6 TMA 178.94 EL1 496.3 EL2 201.0 ALF 51.60

LAUNCH DATE DEC 8 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 137.543

RL 147.35 LAL -0.00 LOL 75.97 VL 17.352 GAL 24.63 AZL 86.63 MCA 42.18 SMA 88.46 ECC .73478 INC 3.3663 V1 30.237
 RP 107.50 LAP 2.26 LOP 118.10 VP 31.127 GAP -46.01 AZP 87.50 TAL 170.08 TAP 212.26 RCA 23.46 APO 153.45 V2 35.253
 RC 78.802 GL 3.25 GP -0.03 ZAL 62.83 ZAP 31.39 ETS 178.96 ZAE 135.15 ETE 187.70 ZAC 65.01 ETC 163.27 CLP 31.39

PLANETOCENTRIC CONIC

C3 266.372 VHL 16.321 DLA 8.20 RAL 10.86 RAD 6571.6 VEL 19.690 PTH 3.12 VHP 26.171 DPA -14.71 RAP 332.82 ECC 5.3838
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 17 3031.09 -27.80 98.69 277.23 84.39 6 45 49 2431.1 -28.29 90.05
 90.00 19 57 9 5160.74 25.57 230.51 269.00 77.40 21 23 10 4560.7 23.58 222.41
 100.00 7 20 36 2755.94 -29.43 78.63 277.41 84.50 8 6 32 2155.9 -29.88 69.85
 100.00 21 14 32 4911.13 27.16 211.75 268.59 77.02 22 36 23 4311.1 25.10 203.56
 110.00 8 37 54 2514.05 -33.83 60.75 277.90 84.79 9 19 48 1914.0 -34.18 51.52
 110.00 22 13 43 4725.79 31.46 196.50 267.40 75.89 23 32 29 4125.8 29.21 188.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8390 TRA-2.0416 TC3 -.1210 BAU .4334 SGT 875.8 SGR 458.1 SG3 27.9 ST 366.2 SR 413.4 SS 357.4
 RDE-1.1647 RRA .5695 RC3 -.0133 FAU .01175 RRT -.0216 RRF .0197 RTF -.6457 CRT .7088 CRS .7819 CST .9924
 FDE .3893 FRA .7449 FC3 -.0382 BSP 2011 SGB 988.4 R23 -.0005 R13 .6457 LSA 616.1 MSA 229.8 SSA 14.2
 BOE 1.4355 BRA 2.1195 BC3 .1217 FSP -57 SG1 875.9 SG2 458.0 TMA 179.11 EL1 511.2 EL2 208.9 ALF 49.86

LAUNCH DATE DEC 8 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 143.285

RL 147.35 LAL -0.00 LOL 75.97 VL 18.063 GAL 23.53 AZL 86.63 MCA 45.43 SMA 89.97 ECC .70800 INC 3.3693 V1 30.237
 RP 107.49 LAP 2.40 LOP 121.35 VP 31.532 GAP -43.95 AZP 87.63 TAL 169.21 TAP 214.63 RCA 26.27 APO 153.67 V2 35.255
 RC 76.644 GL 3.57 GP -0.03 ZAL 61.59 ZAP 29.88 ETS 179.06 ZAE 135.31 ETE 188.17 ZAC 66.68 ETC 163.58 CLP 29.88

PLANETOCENTRIC CONIC

C3 243.966 VHL 15.619 DLA 8.99 RAL 11.90 RAD 6571.4 VEL 19.112 PTH 3.09 VHP 25.192 DPA -14.12 RAP 334.50 ECC 5.0151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 53 15 3044.69 -27.71 99.67 277.76 83.91 6 44 0 2444.7 -28.26 91.05
 90.00 20 7 30 5123.72 24.99 227.95 268.87 76.24 21 32 54 4523.7 22.86 219.93
 100.00 7 18 59 2768.19 -29.35 79.53 277.96 84.04 8 5 7 2168.2 -29.86 70.76
 100.00 21 24 27 4875.45 26.59 209.26 268.43 75.82 22 45 43 4275.5 24.38 201.15
 110.00 8 37 13 2523.37 -33.77 61.47 278.49 84.37 9 19 17 1923.4 -34.18 52.25
 110.00 22 22 43 4693.04 30.90 194.12 267.14 74.59 23 40 56 4093.0 28.47 185.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8952 TRA-2.1101 TC3 -.1373 BAU .4504 SGT 951.8 SGR 462.6 SG3 30.2 ST 404.1 SR 417.4 SS 378.4
 RDE-1.1257 RRA .5476 RC3 -.0149 FAU .01156 RRT -.0087 RRF .0153 RTF -.6629 CRT .7190 CRS .7844 CST .9936
 FDE .4107 FRA .7777 FC3 -.0410 BSP 877 SGB 1058.3 R23 -.0077 R13 .6629 LSA 652.0 MSA 235.3 SSA 14.7
 BOE 1.4383 BRA 2.1800 BC3 .1381 FSP -50 SG1 951.8 SG2 462.6 TMA 179.68 EL1 538.7 EL2 217.6 ALF 46.29

LAUNCH DATE DEC 8 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 149.122

RL 147.35 LAL -0.00 LOL 75.97 VL 18.731 GAL 22.48 AZL 86.63 MCA 48.67 SMA 91.49 ECC .68147 INC 3.3720 V1 30.237
 RP 107.48 LAP 2.53 LOP 124.60 VP 31.921 GAP -41.99 AZP 87.77 TAL 168.35 TAP 217.02 RCA 29.14 APO 153.84 V2 35.257
 RC 74.503 GL 3.90 GP -0.03 ZAL 60.40 ZAP 28.40 ETS 179.15 ZAE 135.56 ETE 188.66 ZAC 68.58 ETC 163.87 CLP 28.40

PLANETOCENTRIC CONIC

C3 223.481 VHL 14.949 DLA 9.76 RAL 12.89 RAD 6571.3 VEL 18.569 PTH 3.05 VHP 24.245 DPA -13.51 RAP 336.20 ECC 4.6779
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 2 3057.42 -27.61 100.59 278.18 83.45 6 41 59 2457.4 -28.23 91.98
 90.00 20 17 36 5086.26 24.36 225.39 268.69 75.10 21 42 22 4486.3 22.08 217.46
 100.00 7 17 11 2779.57 -29.26 80.37 278.39 83.60 8 3 30 2179.6 -29.84 71.61
 100.00 21 34 8 4839.35 25.97 206.76 268.21 74.65 22 54 47 4239.4 23.61 198.75
 110.00 8 36 21 2531.80 -33.71 62.12 278.96 83.99 9 18 33 1931.8 -34.18 52.91
 110.00 22 31 26 4659.88 30.27 191.74 266.81 73.31 23 49 6 4059.9 27.69 183.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8276 TRA-2.0540 TC3 -.1332 BAU .4011 SGT 947.2 SGR 466.9 SG3 32.5 ST 397.7 SR 421.5 SS 388.4
 RDE-1.0882 RRA .5236 RC3 -.0169 FAU .01204 RRT -.0232 RRF .0186 RTF -.6824 CRT .7019 CRS .7830 CST .9912
 FDE .4184 FRA .7969 FC3 -.0466 BSP 2722 SGB 1056.0 R23 .0022 R13 .6824 LSA 654.4 MSA 241.3 SSA 14.5
 BOE 1.3672 BRA 2.1197 BC3 .1343 FSP -73 SG1 947.3 SG2 466.7 TMA 179.14 EL1 534.8 EL2 223.3 ALF 47.37

LAUNCH DATE DEC 8 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 155.065

RL 147.35 LAL -0.00 LOL 75.97 VL 19.357 GAL 21.49 AZL 86.63 MCA 51.92 SMA 93.02 ECC .65537 INC 3.3744 V1 30.237
 RP 107.48 LAP 2.66 LOP 127.85 VP 32.294 GAP -40.13 AZP 87.92 TAL 167.50 TAP 219.42 RCA 32.06 APO 153.98 V2 35.258
 RC 72.381 GL 4.25 GP -.03 ZAL 59.27 ZAP 26.93 ETS 179.25 ZAE 135.90 ETE 189.19 ZAC 70.10 ETC 164.16 CLP 26.93

PLANETOCENTRIC CONIC

C3 204.837 VHL 14.312 DLA 10.52 RAL 13.83 RAD 6571.1 VEL 18.060 PTH 3.01 VHP 23.330 DPA -12.88 RAP 337.91 ECC 4.3711
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 36 3069.49 -27.51 101.46 278.49 83.03 6 39 46 2469.5 -28.19 92.86
 90.00 20 27 31 5048.29 23.67 222.82 268.45 73.99 21 51 39 4448.3 21.25 214.99
 100.00 7 15 11 2790.26 -29.18 81.15 278.72 83.20 8 1 41 2190.3 -29.81 72.40
 100.00 21 43 37 4802.76 25.28 204.25 267.93 73.50 23 3 40 4202.8 22.78 196.35
 110.00 8 35 19 2539.51 -33.66 62.72 279.32 83.64 9 17 38 1939.5 -34.17 53.51
 110.00 22 39 59 4626.28 29.59 189.36 266.43 72.05 23 57 5 4026.3 26.85 181.24

DIFFERENTIAL CORRECTIONS

TDE -.8338 TRA-2.0710 TC3 -.1413 BAU .3903
 RDE -1.0498 RRA .5005 RC3 -.0189 FAU .01216
 FDE .4349 FRA .8249 FC3 -.0514 BSP 2808
 BOE 1.3406 BRA 2.1306 BC3 .1425 FSP -79

MID-COURSE EXECUTION ACCURACY

SGT 993.0 SGR 470.2 SG3 35.1
 RRT -.0208 RRF .0170 RTF -.6994
 SGB 1098.7 R23 .0018 R13 .6994
 SG1 993.1 SG2 470.1 THA 179.27

ORBIT DETERMINATION ACCURACY

ST 419.0 SR 424.7 SS 405.6
 CRT .7015 CRS .7841 CST .9911
 LSA 677.8 MSA 246.5 SSA 14.7
 EL1 550.3 EL2 230.5 ALF 45.55

LAUNCH DATE DEC 8 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 161.101

RL 147.35 LAL -0.00 LOL 75.97 VL 19.944 GAL 20.55 AZL 86.62 MCA 55.17 SMA 94.55 ECC .62977 INC 3.3766 V1 30.237
 RP 107.48 LAP 2.77 LOP 131.10 VP 32.650 GAP -38.36 AZP 88.07 TAL 166.67 TAP 221.84 RCA 35.01 APO 154.10 V2 35.259
 RC 70.281 GL 4.60 GP -.04 ZAL 58.19 ZAP 25.48 ETS 179.35 ZAE 136.34 ETE 189.74 ZAC 71.83 ETC 164.42 CLP 25.48

PLANETOCENTRIC CONIC

C3 187.815 VHL 13.705 DLA 11.28 RAL 14.72 RAD 6571.0 VEL 17.582 PTH 2.97 VHP 22.445 DPA -12.23 RAP 339.63 ECC 4.0910
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 45 58 3080.88 -27.42 102.28 278.70 82.63 6 37 19 2480.9 -28.15 93.69
 90.00 20 37 16 5009.77 22.93 220.24 268.15 72.91 22 0 45 4409.8 20.37 212.50
 100.00 7 13 0 2800.23 -29.10 81.88 278.94 82.82 7 59 40 2200.2 -29.78 73.14
 100.00 21 52 56 4765.65 24.54 201.74 267.60 72.38 23 12 21 4165.7 21.90 193.94
 110.00 8 34 5 2546.45 -33.60 63.25 279.58 83.33 9 16 32 1946.5 -34.16 54.05
 110.00 22 48 19 4592.19 28.85 186.98 266.00 70.82 24 4 51 3992.2 25.96 178.99

DIFFERENTIAL CORRECTIONS

TDE -.8382 TRA-2.0854 TC3 -.1491 BAU .3780
 RDE -1.0115 RRA .4773 RC3 -.0211 FAU .01230
 FDE .4517 FRA .8533 FC3 -.0567 BSP 2948
 BOE 1.3137 BRA 2.1394 BC3 .1505 FSP -86

MID-COURSE EXECUTION ACCURACY

SGT 1039.3 SGR 472.8 SG3 37.9
 RRT -.0185 RRF .0151 RTF -.7158
 SGB 1141.8 R23 .0016 R13 .7158
 SG1 1039.3 SG2 472.7 THA 179.39

ORBIT DETERMINATION ACCURACY

ST 440.6 SR 427.3 SS 423.1
 CRT .7009 CRS .7852 CST .9908
 LSA 701.7 MSA 251.2 SSA 14.9
 EL1 566.0 EL2 237.2 ALF 43.75

LAUNCH DATE DEC 8 1968

FLIGHT TIME 82.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 167.223

RL 147.35 LAL -0.00 LOL 75.97 VL 20.496 GAL 19.66 AZL 86.62 MCA 58.42 SMA 96.08 ECC .60474 INC 3.3786 V1 30.237
 RP 107.48 LAP 2.88 LOP 134.35 VP 32.989 GAP -36.67 AZP 88.23 TAL 165.86 TAP 224.27 RCA 37.98 APO 154.18 V2 35.259
 RC 68.209 GL 4.97 GP -.04 ZAL 57.16 ZAP 24.05 ETS 179.45 ZAE 136.87 ETE 190.33 ZAC 73.59 ETC 164.68 CLP 24.05

PLANETOCENTRIC CONIC

C3 172.265 VHL 13.125 DLA 12.02 RAL 15.56 RAD 6570.9 VEL 17.134 PTH 2.94 VHP 21.589 DPA -11.56 RAP 341.36 ECC 3.8350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 7 3091.61 -27.32 103.05 278.80 82.25 6 34 39 2491.6 -28.11 94.47
 90.00 20 46 50 4970.66 22.12 217.66 267.80 71.86 22 9 40 4370.7 19.44 210.02
 100.00 7 10 35 2809.51 -29.02 82.56 279.05 82.48 7 57 25 2209.5 -29.75 73.83
 100.00 22 2 3 4727.99 23.74 199.23 267.22 71.28 23 20 51 4128.0 20.97 191.54
 110.00 8 32 40 2552.66 -33.55 63.73 279.73 83.05 9 15 13 1952.7 -34.15 54.54
 110.00 22 56 27 4557.60 28.05 184.60 265.52 69.62 24 12 25 3957.6 25.02 176.74

DIFFERENTIAL CORRECTIONS

TDE -.8425 TRA-2.0986 TC3 -.1567 BAU .3650
 RDE -.9733 RRA .4540 RC3 -.0234 FAU .01248
 FDE .4691 FRA .8823 FC3 -.0627 BSP 3101
 BOE 1.2873 BRA 2.1471 BC3 .1585 FSP -94

MID-COURSE EXECUTION ACCURACY

SGT 1087.1 SGR 474.7 SG3 40.9
 RRT -.0159 RRF .0129 RTF -.7315
 SGB 1186.3 R23 .0015 R13 .7315
 SG1 1087.2 SG2 474.7 THA 179.51

ORBIT DETERMINATION ACCURACY

ST 463.0 SR 429.2 SS 441.1
 CRT .7005 CRS .7865 CST .9905
 LSA 726.4 MSA 255.5 SSA 15.1
 EL1 582.5 EL2 243.5 ALF 41.91

LAUNCH DATE DEC 8 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 173.427

RL 147.35 LAL -0.00 LOL 75.97 VL 21.013 GAL 18.81 AZL 86.62 MCA 61.67 SMA 97.59 ECC .58034 INC 3.3805 V1 30.237
 RP 107.48 LAP 2.98 LOP 137.60 VP 33.312 GAP -35.06 AZP 88.39 TAL 165.06 TAP 226.73 RCA 40.96 APO 154.23 V2 35.257
 RC 66.167 GL 5.35 GP -.04 ZAL 56.19 ZAP 22.63 ETS 179.54 ZAE 137.50 ETE 190.96 ZAC 75.36 ETC 164.91 CLP 22.63

PLANETOCENTRIC CONIC

C3 158.050 VHL 12.572 DLA 12.75 RAL 16.35 RAD 6570.7 VEL 16.715 PTH 2.90 VHP 20.759 DPA -10.88 RAP 343.09 ECC 3.6011
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 40 2 3101.73 -27.23 103.78 278.79 81.90 6 31 44 2501.7 -28.07 95.21
 90.00 20 56 14 4930.93 21.26 215.07 267.40 70.84 22 18 25 4330.9 18.45 207.52
 100.00 7 7 58 2818.15 -28.94 83.19 279.06 82.15 7 54 56 2218.2 -29.72 74.47
 100.00 22 10 59 4689.74 22.88 196.72 266.78 70.22 23 29 9 4089.7 19.98 189.12
 110.00 8 31 3 2558.17 -33.51 64.15 279.77 82.80 9 13 41 1958.2 -34.14 54.97
 110.00 23 4 24 4522.49 27.20 182.23 264.99 68.45 24 19 46 3922.5 24.03 174.50

DIFFERENTIAL CORRECTIONS

TDE -.8449 TRA-2.1085 TC3 -.1638 BAU .3504
 RDE -.9353 RRA .4308 RC3 -.0260 FAU .01268
 FDE .4870 FRA .9117 FC3 -.0695 BSP 3309
 BOE 1.2605 BRA 2.1521 BC3 .1658 FSP -104

MID-COURSE EXECUTION ACCURACY

SGT 1135.2 SGR 475.9 SG3 44.2
 RRT -.0135 RRF .0105 RTF -.7467
 SGB 1230.9 R23 .0017 R13 .7467
 SG1 1135.2 SG2 475.9 THA 179.61

ORBIT DETERMINATION ACCURACY

ST 485.6 SR 430.5 SS 459.0
 CRT .6999 CRS .7878 CST .9902
 LSA 751.5 MSA 259.3 SSA 15.2
 EL1 599.2 EL2 249.2 ALF 40.11

LAUNCH DATE DEC 8 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 179.705

RL 147.35 LAL -.00 LOL 75.97 VL 21.498 GAL 17.99 AZL 86.62 MCA 64.91 SMA 99.10 ECC .55661 INC 3.3823 V1 30.237
 RP 107.49 LAP 3.06 LOP 140.85 VP 33.618 GAP -33.51 AZP 88.56 TAL 164.29 TAP 229.20 RCA 43.94 APO 154.26 V2 35.256
 RC 64.161 GL 5.75 GP -.04 ZAL 55.27 ZAP 21.23 ETS 179.64 ZAE 138.24 ETE 191.63 ZAC 77.14 ETC 165.14 CLP 21.23

PLANETOCENTRIC CONIC

C3 145.052 VML 12.044 DLA 13.48 RAL 17.09 RAD 6570.6 VEL 16.321 PTH 2.86 VHP 19.956 DPA -10.18 RAP 344.83 ECC 3.3872
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 36 42 3111.31 -27.13 104.46 278.68 81.57 6 28 33 2511.3 -28.02 95.91
 90.00 21 5 30 4890.54 20.33 212.47 266.95 69.85 22 27 0 4290.5 17.40 205.02
 100.00 7 5 6 2826.20 -28.86 83.78 278.96 81.85 7 52 12 2226.2 -29.69 75.07
 100.00 22 19 46 4650.88 21.97 194.19 266.30 69.20 23 37 17 4050.9 18.94 186.70
 110.00 8 29 13 2563.01 -33.47 64.52 279.70 82.59 9 11 56 1963.0 -34.13 55.34
 110.00 23 12 9 4486.83 26.28 179.86 264.41 67.31 24 26 56 3886.8 22.98 172.26

DIFFERENTIAL CORRECTIONS

TDE -.8502 TRA-2.1198 TC3 -.1713 BAU .3368
 RDE -.8976 RRA .4077 RC3 -.0287 FAU .01291
 FDE .5060 FRA .9422 FC3 -.0770 BSP 3460
 BDE 1.2363 BRA 2.1586 BC3 .1737 FSP -113

MID-COURSE EXECUTION ACCURACY

SGT 1187.1 SGR 476.3 SG3 47.7
 RRT -.0099 RRF .0075 RTF -.7610
 SGB 1279.1 R23 .0014 R13 .7610
 SG1 1187.1 SG2 476.3 THA 179.73

ORBIT DETERMINATION ACCURACY

ST 510.4 SR 431.2 SS 478.8
 CRT .7003 CRS .7893 CST .9900
 LSA 778.8 MSA 262.4 SSA 15.4
 EL1 617.9 EL2 254.3 ALF 38.20

LAUNCH DATE DEC 8 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 186.053

RL 147.35 LAL -.00 LOL 75.97 VL 21.954 GAL 17.21 AZL 86.62 MCA 68.16 SMA 100.58 ECC .53361 INC 3.3840 V1 30.237
 RP 107.50 LAP 3.14 LOP 144.10 VP 33.908 GAP -32.03 AZP 88.74 TAL 163.54 TAP 231.70 RCA 46.91 APO 154.26 V2 35.253
 RC 62.196 GL 6.16 GP -.04 ZAL 54.41 ZAP 19.84 ETS 179.74 ZAE 139.09 ETE 192.36 ZAC 78.94 ETC 165.35 CLP 19.84

PLANETOCENTRIC CONIC

C3 133.162 VML 11.540 DLA 14.20 RAL 17.79 RAD 6570.4 VEL 15.953 PTH 2.82 VHP 19.177 DPA -9.48 RAP 346.57 ECC 3.1915
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 6 3120.40 -27.04 105.11 278.46 81.26 6 25 6 2520.4 -27.97 96.57
 90.00 21 14 37 4849.46 19.35 209.86 266.46 68.91 22 35 26 4249.5 16.31 202.50
 100.00 7 2 0 2833.71 -28.79 84.32 278.76 81.58 7 49 13 2233.7 -29.65 75.62
 100.00 22 28 24 4611.38 20.99 191.67 265.77 68.21 23 45 16 4011.4 17.85 184.28
 110.00 8 27 9 2567.23 -33.43 64.85 279.53 82.40 9 9 57 1967.2 -34.12 55.67
 110.00 23 19 44 4450.63 25.31 177.50 263.80 66.22 24 33 54 3850.6 21.88 170.03

DIFFERENTIAL CORRECTIONS

TDE -.8532 TRA-2.1273 TC3 -.1779 BAU .3217
 RDE -.8602 RRA .3848 RC3 -.0317 FAU .01317
 FDE .5257 FRA .9734 FC3 -.0856 BSP 3674
 BDE 1.2116 BRA 2.1618 BC3 .1807 FSP -124

MID-COURSE EXECUTION ACCURACY

SGT 1239.0 SGR 476.0 SG3 51.5
 RRT -.0064 RRF .0043 RTF -.7749
 SGB 1327.3 R23 .0016 R13 .7749
 SG1 1239.0 SG2 476.0 THA 179.83

ORBIT DETERMINATION ACCURACY

ST 535.2 SR 431.2 SS 498.5
 CRT .7004 CRS .7910 CST .9897
 LSA 806.5 MSA 265.1 SSA 15.5
 EL1 636.8 EL2 258.7 ALF 36.36

LAUNCH DATE DEC 8 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 192.463

RL 147.35 LAL -.00 LOL 75.97 VL 22.381 GAL 16.46 AZL 86.61 MCA 71.41 SMA 102.05 ECC .51135 INC 3.3856 V1 30.237
 RP 107.51 LAP 3.21 LOP 147.35 VP 34.183 GAP -30.62 AZP 88.92 TAL 162.81 TAP 234.22 RCA 49.87 APO 154.23 V2 35.250
 RC 60.278 GL 6.58 GP -.04 ZAL 53.60 ZAP 18.45 ETS 179.84 ZAE 140.05 ETE 193.15 ZAC 80.74 ETC 165.54 CLP 18.45

PLANETOCENTRIC CONIC

C3 122.284 VML 11.058 DLA 14.92 RAL 18.43 RAD 6570.3 VEL 15.608 PTH 2.78 VHP 18.422 DPA -8.75 RAP 348.31 ECC 3.0125
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 13 3129.08 -26.95 105.73 278.15 80.96 6 21 22 2529.1 -27.92 97.20
 90.00 21 23 37 4807.67 18.30 207.23 265.92 68.01 22 43 45 4207.7 15.16 199.97
 100.00 6 58 37 2840.74 -28.72 84.83 278.46 81.32 7 45 58 2240.7 -29.62 76.14
 100.00 22 36 54 4571.24 19.95 189.13 265.20 67.27 23 53 5 3971.2 16.70 181.85
 110.00 8 24 52 2570.88 -33.39 65.13 279.25 82.24 9 7 43 1970.9 -34.11 55.96
 110.00 23 27 8 4413.87 24.28 175.14 263.14 65.17 24 40 42 3813.9 20.73 167.80

DIFFERENTIAL CORRECTIONS

TDE -.8568 TRA-2.1334 TC3 -.1841 BAU .3063
 RDE -.8231 RRA .3621 RC3 -.0348 FAU .01347
 FDE .5464 FRA 1.0055 FC3 -.0953 BSP 3889
 BDE 1.1881 BRA 2.1639 BC3 .1874 FSP -136

MID-COURSE EXECUTION ACCURACY

SGT 1292.8 SGR 474.9 SG3 55.7
 RRT -.0024 RRF .0005 RTF -.7880
 SGB 1377.3 R23 .0017 R13 .7880
 SG1 1292.8 SG2 474.9 THA 179.94

ORBIT DETERMINATION ACCURACY

ST 561.2 SR 430.5 SS 519.1
 CRT .7010 CRS .7929 CST .9895
 LSA 835.5 MSA 267.1 SSA 15.6
 EL1 656.9 EL2 262.3 ALF 34.52

LAUNCH DATE DEC 8 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 198.932

RL 147.35 LAL -.00 LOL 75.97 VL 22.781 GAL 15.74 AZL 86.61 MCA 74.65 SMA 103.49 ECC .48987 INC 3.3872 V1 30.237
 RP 107.52 LAP 3.27 LOP 150.60 VP 34.442 GAP -29.25 AZP 89.10 TAL 162.12 TAP 236.77 RCA 52.79 APO 154.18 V2 35.246
 RC 58.412 GL 7.02 GP -.05 ZAL 52.85 ZAP 17.08 ETS 179.93 ZAE 141.14 ETE 194.01 ZAC 82.56 ETC 165.72 CLP 17.08

PLANETOCENTRIC CONIC

C3 112.332 VML 10.599 DLA 15.62 RAL 19.02 RAD 6570.1 VEL 15.286 PTH 2.74 VHP 17.691 DPA -8.02 RAP 350.05 ECC 2.8487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 25 2 3137.43 -26.86 106.32 277.73 80.67 6 17 20 2537.4 -27.87 97.80
 90.00 21 32 30 4765.14 17.20 204.60 265.34 67.15 22 51 56 4165.1 13.95 197.43
 100.00 6 54 59 2847.37 -28.65 85.31 278.05 81.07 7 42 26 2247.4 -29.58 76.63
 100.00 22 45 15 4530.43 18.86 186.60 264.59 66.37 24 0 45 3930.4 15.51 179.41
 110.00 8 22 21 2574.01 -33.37 65.37 278.87 82.10 9 5 15 1974.0 -34.10 56.20
 110.00 23 34 22 4376.56 23.19 172.79 262.45 64.16 24 47 19 3776.6 19.53 165.57

DIFFERENTIAL CORRECTIONS

TDE -.8605 TRA-2.1377 TC3 -.1897 BAU .2906
 RDE -.7865 RRA .3398 RC3 -.0381 FAU .01380
 FDE .5684 FRA 1.0387 FC3 -.1064 BSP 4110
 BDE 1.1658 BRA 2.1646 BC3 .1935 FSP -149

MID-COURSE EXECUTION ACCURACY

SGT 1348.4 SGR 473.0 SG3 60.2
 RRT -.0022 RRF -.0037 RTF -.8006
 SGB 1428.9 R23 -.0017 R13 -.8006
 SG1 1348.4 SG2 473.0 THA .05

ORBIT DETERMINATION ACCURACY

ST 588.3 SR 429.0 SS 540.5
 CRT .7021 CRS .7950 CST .9893
 LSA 866.0 MSA 268.4 SSA 15.8
 EL1 678.2 EL2 265.0 ALF 32.72

LAUNCH DATE DEC 8 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 12 1969

MELIOCENTRIC CONIC
 RL 147.35 LAL -0.00 LOL 75.97 VL 23.157 GAL 15.05 AZL 86.61 MCA 77.90 SMA 104.90 ECC .46917 INC 3.3887 V1 30.237
 RP 107.53 LAP 3.31 LOP 153.85 VP 34.687 GAP -27.95 AZP 89.29 TAL 161.45 TAP 239.34 RCA 55.68 APO 154.11 V2 35.241
 RC 56.605 GL 7.48 GP -.05 ZAL 52.15 ZAP 15.71 ETS 180.02 ZAE 142.35 ETE 194.95 ZAC 84.38 ETC 165.89 CLP 15.71

PLANETOCENTRIC CONIC
 C3 103.228 VHL 10.160 DLA 16.33 RAL 19.56 RAD 6570.0 VEL 14.986 PTH 2.70 VHP 16.982 DPA -7.28 RAP 351.79 ECC 2.6989
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 20 32 3145.55 -26.77 106.90 277.21 80.40 6 12 58 2545.5 -27.82 98.39
 90.00 21 41 19 4721.85 16.03 201.96 264.72 66.34 23 0 0 4121.9 12.70 194.87
 100.00 6 51 3 2853.69 -28.58 85.77 277.55 80.84 7 38 36 2253.7 -29.55 77.10
 100.00 22 53 29 4488.94 17.71 184.05 263.94 65.52 24 8 18 3888.9 14.26 176.96
 110.00 8 19 34 2576.69 -33.34 65.57 278.39 81.98 9 2 31 1976.7 -34.09 56.41
 110.00 23 41 27 4338.70 22.05 170.44 261.72 63.19 24 53 46 3738.7 18.28 163.34

DIFFERENTIAL CORRECTIONS
 TDE -.8671 TRA-2.1430 TC3 -.1957 BAU .2761 SGT 1408.2 SGR 470.2 SG3 65.1 ST 618.1 SR 426.9 SS 563.3
 RDE -.7505 RRA .3178 RC3 -.0416 FAU .01415 RRT .0082 RRF -.0088 RTF -.8123 CRT .7042 CRS .7975 CST .9892
 FDE .5921 FRA 1.0736 FC3 -.1187 BSP 4270 SGB 1484.7 R23 -.0013 R13 -.8123 LSA 899.4 MSA 269.0 SSA 15.9
 BDE 1.1468 BRA 2.1665 BC3 .2000 FSP -162 SGI 1408.2 SG2 470.2 THA .18 EL1 702.2 EL2 266.8 ALF 30.87

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 8 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 14 1969

MELIOCENTRIC CONIC
 RL 147.35 LAL -0.00 LOL 75.97 VL 23.509 GAL 14.39 AZL 86.61 MCA 81.14 SMA 106.28 ECC .44927 INC 3.3902 V1 30.237
 RP 107.53 LAP 3.35 LOP 157.10 VP 34.918 GAP -26.69 AZP 89.48 TAL 160.81 TAP 241.95 RCA 58.53 APO 154.03 V2 35.235
 RC 54.864 GL 7.95 GP -.05 ZAL 51.50 ZAP 14.35 ETS 180.10 ZAE 143.69 ETE 195.98 ZAC 86.20 ETC 166.04 CLP 14.35

PLANETOCENTRIC CONIC
 C3 94.900 VHL 9.742 DLA 17.03 RAL 20.05 RAD 6569.8 VEL 14.705 PTH 2.66 VHP 16.295 DPA -6.53 RAP 353.53 ECC 2.5618
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 15 42 3153.52 -26.68 107.47 276.60 80.13 6 8 16 2553.5 -27.77 98.97
 90.00 21 50 2 4677.79 14.81 199.30 264.06 65.59 23 8 0 4077.8 11.39 192.29
 100.00 6 46 48 2859.76 -28.51 86.21 276.95 80.62 7 34 28 2259.8 -29.51 77.55
 100.00 23 1 37 4446.79 16.50 181.51 263.25 64.72 24 15 44 3846.8 12.96 174.50
 110.00 8 16 32 2578.99 -33.32 65.75 277.81 81.88 8 59 31 1979.0 -34.08 56.59
 110.00 23 48 23 4300.32 20.85 168.11 260.96 62.28 25 0 3 3700.3 16.98 161.12

DIFFERENTIAL CORRECTIONS
 TDE -.8716 TRA-2.1430 TC3 -.1999 BAU .2600 SGT 1467.4 SGR 466.7 SG3 70.4 ST 647.6 SR 424.1 SS 586.7
 RDE -.7150 RRA .2963 RC3 -.0453 FAU .01457 RRT .0140 RRF -.0142 RTF -.8236 CRT .7063 CRS .8001 CST .9890
 FDE .6170 FRA 1.1094 FC3 -.1329 BSP 4496 SGB 1539.9 R23 -.0013 R13 -.8236 LSA 933.2 MSA 268.9 SSA 16.0
 BDE 1.1273 BRA 2.1642 BC3 .2049 FSP -178 SGI 1467.4 SG2 466.7 THA .28 EL1 726.4 EL2 267.7 ALF 29.15

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 8 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 16 1969

MELIOCENTRIC CONIC
 RL 147.35 LAL -0.00 LOL 75.97 VL 23.839 GAL 13.75 AZL 86.61 MCA 84.39 SMA 107.62 ECC .43017 INC 3.3916 V1 30.237
 RP 107.57 LAP 3.38 LOP 160.35 VP 35.134 GAP -25.48 AZP 89.67 TAL 160.20 TAP 244.59 RCA 61.33 APO 153.92 V2 35.229
 RC 53.197 GL 8.43 GP -.05 ZAL 50.92 ZAP 12.98 ETS 180.18 ZAE 145.17 ETE 197.14 ZAC 88.02 ETC 166.18 CLP 12.98

PLANETOCENTRIC CONIC
 C3 87.284 VHL 9.343 DLA 17.72 RAL 20.48 RAD 6569.7 VEL 14.444 PTH 2.62 VHP 15.629 DPA -5.78 RAP 355.26 ECC 2.4365
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 31 3161.47 -26.58 108.03 275.89 79.86 6 3 13 2561.5 -27.71 99.54
 90.00 21 58 42 4632.95 13.53 196.63 263.38 64.89 23 15 55 4033.0 10.04 189.69
 100.00 6 42 14 2865.70 -28.45 86.64 276.26 80.40 7 30 0 2265.7 -29.48 77.99
 100.00 23 9 40 4403.96 15.24 178.95 262.53 63.97 24 23 4 3804.0 11.62 172.04
 110.00 8 13 14 2580.99 -33.30 65.90 277.15 81.79 8 56 15 1981.0 -34.08 56.75
 110.00 23 55 9 4261.43 19.60 165.78 260.17 61.42 25 6 11 3661.4 15.64 158.91

DIFFERENTIAL CORRECTIONS
 TDE -.8764 TRA-2.1426 TC3 -.2031 BAU .2438 SGT 1528.3 SGR 462.4 SG3 76.2 ST 678.4 SR 420.5 SS 611.4
 RDE -.6801 RRA .2752 RC3 -.0491 FAU .01503 RRT .0207 RRF -.0203 RTF -.8343 CRT .7089 CRS .8030 CST .9889
 FDE .6437 FRA 1.1469 FC3 -.1490 BSP 4725 SGB 1596.7 R23 -.0013 R13 -.8343 LSA 968.9 MSA 268.2 SSA 16.1
 BDE 1.1093 BRA 2.1602 BC3 .2089 FSP -194 SGI 1528.3 SG2 462.3 THA .39 EL1 752.0 EL2 267.6 ALF 27.49

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 8 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 18 1969

MELIOCENTRIC CONIC
 RL 147.35 LAL -0.00 LOL 75.97 VL 24.148 GAL 13.15 AZL 86.61 MCA 87.63 SMA 108.93 ECC .41187 INC 3.3930 V1 30.237
 RP 107.59 LAP 3.39 LOP 163.60 VP 35.338 GAP -24.31 AZP 89.86 TAL 159.63 TAP 247.25 RCA 64.07 APO 153.80 V2 35.222
 RC 51.611 GL 8.93 GP -.06 ZAL 50.39 ZAP 11.62 ETS 180.25 ZAE 146.78 ETE 198.44 ZAC 89.84 ETC 166.30 CLP 11.62

PLANETOCENTRIC CONIC
 C3 80.321 VHL 8.962 DLA 18.41 RAL 20.86 RAD 6569.6 VEL 14.201 PTH 2.59 VHP 14.984 DPA -5.02 RAP 356.99 ECC 2.3219
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 57 3169.53 -26.48 108.60 275.10 79.59 5 57 46 2569.5 -27.65 100.13
 90.00 22 7 20 4587.31 12.20 193.94 262.66 64.25 23 23 47 3987.3 8.63 187.08
 100.00 6 37 20 2871.61 -28.38 87.06 275.48 80.19 7 25 11 2271.6 -29.44 78.42
 100.00 23 17 38 4360.47 13.92 176.39 261.79 63.28 24 30 18 3760.5 10.23 169.55
 110.00 8 9 39 2582.77 -33.28 66.04 276.39 81.71 8 52 42 1982.8 -34.07 56.89
 110.00 0 5 44 4222.07 18.31 163.47 259.36 60.61 1 16 6 3622.1 14.25 156.70

DIFFERENTIAL CORRECTIONS
 TDE -.8815 TRA-2.1393 TC3 -.2049 BAU .2273 SGT 1590.7 SGR 457.2 SG3 82.6 ST 710.4 SR 416.2 SS 637.3
 RDE -.6460 RRA .2547 RC3 -.0531 FAU .01554 RRT .0280 RRF -.0270 RTF -.8445 CRT .7120 CRS .8061 CST .9888
 FDE .6724 FRA 1.1860 FC3 -.1675 BSP 4963 SGB 1655.1 R23 -.0012 R13 -.8445 LSA 1006.3 MSA 266.7 SSA 16.2
 BDE 1.0929 BRA 2.1544 BC3 .2117 FSP -213 SGI 1590.7 SG2 457.0 THA .50 EL1 779.0 EL2 266.5 ALF 25.89

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 8 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 231.956

RL 147.35 LAL -0.00 LOL 75.97 VL 24.437 GAL 12.56 AZL 86.61 HCA 90.87 SMA 110.21 ECC .39436 INC 3.3944 V1 30.237
 RP 107.61 LAP 3.39 LOP 166.84 VP 35.529 GAP -23.19 AZP 90.05 TAL 159.09 TAP 249.95 RCA 66.74 APO 153.67 V2 35.215
 RC 50.116 GL 9.45 GP -0.06 ZAL 49.92 ZAP 10.26 ETS 180.31 ZAE 148.52 ETE 199.92 ZAC 91.66 ETC 166.40 CLP 10.25

PLANETOCENTRIC CONIC

C3 73.957 VHL 8.600 DLA 19.10 RAL 21.19 RAD 6569.4 VEL 13.975 PTH 2.55 VHP 14.358 DPA -4.26 RAP 358.71 ECC 2.2172
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 58 3177.83 -26.38 109.18 274.22 79.32 5 51 56 2577.8 -27.59 100.73
 90.00 22 15 57 4540.86 10.81 191.24 261.92 63.67 23 31 38 3940.9 7.18 184.43
 100.00 6 32 4 2877.60 -28.31 87.50 274.62 79.97 7 20 2 2277.6 -29.40 78.86
 100.00 23 25 32 4316.32 12.56 173.83 261.02 62.65 24 37 28 3716.3 8.79 167.06
 110.00 8 5 47 2584.42 -33.27 66.16 275.55 81.64 8 48 51 1984.4 -34.06 57.01
 110.00 0 12 14 4182.27 16.96 161.17 258.52 59.87 1 21 57 3582.3 12.83 154.49

DIFFERENTIAL CORRECTIONS

TOE -.8875 TRA-2.1342 TC3 -.2057 BAU .2111
 RDE -.6126 RRA .2347 RC3 -.0572 FAU .01610
 FDE .7035 FRA 1.2272 FC3 -.1885 BSP 5194
 BDE 1.0784 BRA 2.1471 BC3 .2135 FSP -233

MID-COURSE EXECUTION ACCURACY

SGT 1654.9 SGR 451.3 SG3 89.5
 RRT .0364 RRF -.0346 RTF -.8540
 SGB 1715.4 R23 -.0010 R13 -.8540
 SGI 1655.0 SG2 451.0 THA .61

ORBIT DETERMINATION ACCURACY

ST 744.0 SR 411.1 SS 664.7
 CRT .7158 CRS .8096 CST .9888
 LSA 1046.1 MSA 264.4 SSA 16.2
 EL1 807.9 EL2 264.4 ALF 24.36

LAUNCH DATE DEC 8 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 238.663

RL 147.35 LAL -0.00 LOL 75.97 VL 24.707 GAL 12.01 AZL 86.60 HCA 94.11 SMA 111.44 ECC .37765 INC 3.3959 V1 30.237
 RP 107.64 LAP 3.39 LOP 170.09 VP 35.707 GAP -22.11 AZP 90.24 TAL 158.58 TAP 252.69 RCA 69.35 APO 153.52 V2 35.207
 RC 48.721 GL 9.99 GP -0.06 ZAL 49.50 ZAP 8.89 ETS 180.34 ZAE 150.40 ETE 201.63 ZAC 93.47 ETC 166.49 CLP 8.88

PLANETOCENTRIC CONIC

C3 68.145 VHL 8.255 DLA 19.78 RAL 21.47 RAD 6569.3 VEL 13.766 PTH 2.51 VHP 13.752 DPA -3.50 RAP .42 ECC 2.1215
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 33 3186.52 -26.27 109.80 273.26 79.03 5 45 39 2586.5 -27.52 101.35
 90.00 22 24 35 4493.59 9.37 188.51 261.16 63.16 23 39 28 3893.6 5.69 181.76
 100.00 6 26 25 2883.81 -28.23 87.94 273.67 79.75 7 14 29 2283.8 -29.36 79.32
 100.00 23 33 23 4271.53 11.14 171.25 260.23 62.08 24 44 35 3671.5 7.32 164.55
 110.00 8 1 36 2586.02 -33.23 66.29 274.63 81.57 8 44 42 1986.0 -34.06 57.14
 110.00 0 18 37 4142.09 15.57 158.88 257.67 59.18 1 27 39 3542.1 11.37 152.29

DIFFERENTIAL CORRECTIONS

TOE -.8935 TRA-2.1267 TC3 -.2045 BAU .1945
 RDE -.5800 RRA .2154 RC3 -.0614 FAU .01673
 FDE .7370 FRA 1.2703 FC3 -.2126 BSP 5431
 BOE 1.0653 BRA 2.1376 BC3 .2135 FSP -256

MID-COURSE EXECUTION ACCURACY

SGT 1720.3 SGR 444.5 SG3 97.1
 RRT .0454 RRF -.0429 RTF -.8631
 SGB 1776.8 R23 -.0009 R13 -.8631
 SGI 1720.4 SG2 444.0 THA .72

ORBIT DETERMINATION ACCURACY

ST 778.6 SR 405.4 SS 693.7
 CRT .7201 CRS .8134 CST .9888
 LSA 1087.7 MSA 261.5 SSA 16.3
 EL1 838.0 EL2 261.4 ALF 22.91

LAUNCH DATE DEC 8 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 245.393

RL 147.35 LAL -0.00 LOL 75.97 VL 24.960 GAL 11.47 AZL 86.60 HCA 97.34 SMA 112.62 ECC .36172 INC 3.3973 V1 30.237
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.874 GAP -21.06 AZP 90.43 TAL 158.12 TAP 255.46 RCA 71.89 APO 153.36 V2 35.198
 RC 47.437 GL 10.54 GP -0.07 ZAL 49.14 ZAP 7.51 ETS 180.35 ZAE 152.41 ETE 203.62 ZAC 95.28 ETC 166.57 CLP 7.51

PLANETOCENTRIC CONIC

C3 62.837 VHL 7.927 DLA 20.46 RAL 21.70 RAD 6569.2 VEL 13.572 PTH 2.48 VHP 13.165 DPA -2.74 RAP 2.12 ECC 2.0341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 39 3195.78 -26.15 110.45 272.22 78.73 5 38 55 2595.8 -27.44 102.02
 90.00 22 33 15 4445.46 7.88 185.76 260.39 62.71 23 47 20 3845.5 4.16 179.05
 100.00 6 20 22 2890.36 -28.15 88.41 272.66 79.51 7 8 33 2290.4 -29.31 79.80
 100.00 23 41 13 4226.11 9.68 168.67 259.42 61.58 24 51 39 3626.1 5.81 162.02
 110.00 7 57 7 2587.67 -33.23 66.41 273.64 81.49 8 40 15 1987.7 -34.05 57.27
 110.00 0 24 53 4101.56 14.15 156.60 256.80 58.55 1 33 15 3501.6 9.88 150.10

DIFFERENTIAL CORRECTIONS

TDE -.8999 TRA-2.1168 TC3 -.2015 BAU .1780
 RDE -.5483 RRA .1967 RC3 -.0657 FAU .01744
 FDE .7734 FRA 1.3162 FC3 -.2402 BSP 5678
 BOE 1.0537 BRA 2.1259 BC3 .2119 FSP -280

MID-COURSE EXECUTION ACCURACY

SGT 1786.6 SGR 436.9 SG3 105.4
 RRT .0554 RRF -.0522 RTF -.8717
 SGB 1839.2 R23 -.0008 R13 -.8717
 SGI 1786.7 SG2 436.2 THA .83

ORBIT DETERMINATION ACCURACY

ST 814.3 SR 398.9 SS 724.3
 CRT .7249 CRS .8175 CST .9888
 LSA 1131.4 MSA 257.9 SSA 16.3
 EL1 869.5 EL2 257.3 ALF 21.53

LAUNCH DATE DEC 8 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 252.143

RL 147.35 LAL -0.00 LOL 75.97 VL 25.197 GAL 10.96 AZL 86.60 HCA 100.58 SMA 113.77 ECC .34656 INC 3.3987 V1 30.237
 RP 107.69 LAP 3.34 LOP 176.57 VP 36.030 GAP -20.05 AZP 90.62 TAL 157.69 TAP 258.27 RCA 74.34 APO 153.20 V2 35.189
 RC 46.274 GL 11.10 GP -0.07 ZAL 48.84 ZAP 6.12 ETS 180.30 ZAE 154.54 ETE 205.98 ZAC 97.07 ETC 166.63 CLP 6.12

PLANETOCENTRIC CONIC

C3 57.994 VHL 7.615 DLA 21.13 RAL 21.87 RAD 6569.1 VEL 13.392 PTH 2.45 VHP 12.596 DPA -1.98 RAP 3.80 ECC 1.9544
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 16 3205.77 -26.01 111.15 271.11 78.40 5 31 42 2605.8 -27.35 102.74
 90.00 22 42 0 4396.45 6.34 182.98 259.60 62.34 23 55 16 3796.4 2.58 176.31
 100.00 6 13 57 2897.39 -28.06 88.90 271.57 79.26 7 2 15 2297.4 -29.26 80.30
 100.00 23 49 3 4180.07 8.18 166.08 258.60 61.15 24 58 43 3580.1 4.27 159.48
 110.00 7 52 19 2589.48 -33.21 66.55 272.59 81.41 8 35 29 1989.5 -34.04 57.41
 110.00 0 31 3 4060.74 12.68 154.35 255.91 57.99 1 38 44 3460.7 8.36 147.91

DIFFERENTIAL CORRECTIONS

TDE -.9069 TRA-2.1049 TC3 -.1963 BAU .1616
 RDE -.5174 RRA .1786 RC3 -.0699 FAU .01821
 FDE .8132 FRA 1.3648 FC3 -.2719 BSP 5923
 BOE 1.0441 BRA 2.1125 BC3 .2084 FSP -307

MID-COURSE EXECUTION ACCURACY

SGT 1854.1 SGR 428.5 SG3 114.5
 RRT .0665 RRF -.0624 RTF -.8798
 SGB 1903.0 R23 -.0006 R13 -.8798
 SGI 1854.3 SG2 427.5 THA .93

ORBIT DETERMINATION ACCURACY

ST 851.5 SR 391.7 SS 756.8
 CRT .7304 CRS .8219 CST .9889
 LSA 1177.6 MSA 253.6 SSA 16.4
 EL1 902.7 EL2 252.4 ALF 20.22

LAUNCH DATE DEC 8 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 258.908
 RL 147.35 LAL -0.00 LOL 75.97 VL 25.417 GAL 10.47 AZL 86.60 MCA 103.81 SMA 114.87 ECC .33216 INC 3.4002 V1 30.237
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.175 GAP -19.08 AZP 90.81 TAL 157.30 TAP 261.11 RCA 76.71 APO 153.02 V2 35.179
 RC 45.244 GL 11.68 GP -.07 ZAL 48.59 ZAP 4.72 ETS 180.15 ZAE 156.75 ETE 208.84 ZAC 98.85 ETC 166.67 CLP 4.72

PLANETOCENTRIC CONIC

C3 53.576 VHL 7.320 DLA 21.81 RAL 21.98 RAD 6568.9 VEL 13.226 PTH 2.42 VHP 12.045 DPA -1.23 RAP 5.47 ECC 1.8817
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 19 3216.73 -25.86 111.91 269.93 78.04 5 23 56 2616.7 -27.25 103.52
 90.00 22 50 52 4346.50 4.75 180.17 258.80 62.05 24 3 19 3746.5 .97 173.52
 100.00 6 6 59 2903.05 -27.97 89.46 270.41 78.99 6 55 24 2305.0 -29.20 80.88
 100.00 0 0 50 4133.41 6.64 163.47 257.77 60.79 1 9 43 3533.4 2.69 156.91
 110.00 7 47 12 2591.53 -33.19 66.71 271.47 81.32 8 30 23 1991.5 -34.04 57.57
 110.00 0 37 6 4019.69 11.19 152.10 255.01 57.49 1 44 6 3419.7 6.83 145.73

DIFFERENTIAL CORRECTIONS

TDE -.9148 TRA-2.0909 TC3 -.1890 BAU .1454 SGT 1922.7 SGR 419.4 SG3 124.6 ST 890.2 SR 383.8 SS 791.5
 RDE -.4875 RRA .1613 RC3 -.0741 FAU .01907 RRT .0788 RRF -.0737 RTF -.8875 CRT .7367 CRS .8267 CST .9891
 FDE .8569 FRA 1.4165 FC3 -.3082 BSP 6166 SGB 1967.9 R23 -.0003 R13 -.8875 LSA 1226.5 MSA 248.6 SSA 16.4
 BOE 1.0366 BRA 2.0971 P3 .2030 FSP -337 SG1 1923.0 SG2 418.0 THA 1.03 EL1 937.6 EL2 246.4 ALF 18.98

LAUNCH DATE DEC 8 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 265.685
 RL 147.35 LAL -0.00 LOL 75.97 VL 25.623 GAL 10.00 AZL 86.60 MCA 107.05 SMA 115.92 ECC .31849 INC 3.4017 V1 30.237
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.311 GAP -18.14 AZP 91.00 TAL 156.95 TAP 264.00 RCA 79.00 APO 152.84 V2 35.169
 RC 44.357 GL 12.28 GP -.08 ZAL 48.40 ZAP 3.30 ETS 179.77 ZAE 159.04 ETE 212.35 ZAC 100.61 ETC 166.70 CLP 3.30

PLANETOCENTRIC CONIC

C3 49.550 VHL 7.039 DLA 22.47 RAL 22.05 RAD 6568.8 VEL 13.073 PTH 2.39 VHP 11.512 DPA -.48 RAP 7.13 ECC 1.8155
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 21 47 3228.87 -25.69 112.76 268.69 77.65 5 15 36 2628.9 -27.13 104.39
 90.00 22 59 55 4295.53 3.12 177.31 258.00 61.84 24 11 30 3695.5 -.67 170.68
 100.00 5 59 35 2913.50 -27.85 90.07 269.20 78.69 6 48 9 2313.5 -29.13 81.50
 100.00 0 8 44 4086.13 5.06 160.85 256.93 60.50 1 16 50 3486.1 1.09 154.31
 110.00 7 41 44 2593.92 -33.17 66.89 270.29 81.22 8 24 58 1993.9 -34.03 57.75
 110.00 0 43 4 3978.47 9.68 149.87 254.11 57.05 1 49 22 3378.5 5.27 143.56

DIFFERENTIAL CORRECTIONS

TDE -.9229 TRA-2.0748 TC3 -.1791 BAU .1294 SGT 1991.9 SGR 409.5 SG3 135.7 ST 930.0 SR 375.2 SS 828.6
 RDE -.4586 RRA .1447 RC3 -.0782 FAU .02003 RRT .0922 RRF -.0861 RTF -.8946 CRT .7435 CRS .8318 CST .9892
 FDE .9049 FRA 1.4718 FC3 -.3499 BSP 6406 SGB 2033.6 R23 -.0001 R13 -.8947 LSA 1277.9 MSA 243.1 SSA 16.4
 BOE 1.0306 BRA 2.0798 BC3 .1954 FSP -370 SG1 1992.3 SG2 407.7 THA 1.13 EL1 973.8 EL2 239.7 ALF 17.81

LAUNCH DATE DEC 8 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 272.470
 RL 147.35 LAL -0.00 LOL 75.97 VL 25.815 GAL 9.56 AZL 86.60 MCA 110.28 SMA 116.93 ECC .30555 INC 3.4033 V1 30.237
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.436 GAP -17.23 AZP 91.18 TAL 156.64 TAP 266.92 RCA 81.20 APO 152.66 V2 35.158
 RC 43.625 GL 12.89 GP -.09 ZAL 48.27 ZAP 1.87 ETS 178.61 ZAE 161.35 ETE 216.77 ZAC 102.34 ETC 166.71 CLP 1.86

PLANETOCENTRIC CONIC

C3 45.883 VHL 6.774 DLA 23.14 RAL 22.06 RAD 6568.7 VEL 12.932 PTH 2.36 VHP 10.996 DPA .26 RAP 8.76 ECC 1.7551
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 12 35 3242.47 -25.49 113.71 267.39 77.22 5 6 38 2642.5 -26.99 105.36
 90.00 23 9 12 4243.44 1.44 174.40 257.20 61.72 24 19 55 3643.4 -2.35 167.78
 100.00 5 51 41 2922.92 -27.73 90.74 267.93 78.36 6 40 24 2322.9 -29.05 82.19
 100.00 0 16 43 4038.21 3.45 158.21 256.08 60.29 1 24 1 3438.2 -.53 151.68
 110.00 7 35 57 2596.75 -33.14 67.10 269.07 81.09 8 19 13 1996.8 -34.01 57.97
 110.00 0 48 57 3937.15 8.14 147.66 253.20 56.68 1 54 34 3337.1 3.70 141.39

DIFFERENTIAL CORRECTIONS

TDE -.9316 TRA-2.0561 TC3 -.1659 BAU .1136 SGT 2061.2 SGR 398.9 SG3 147.9 ST 971.1 SR 366.0 SS 868.1
 RDE -.4306 RRA .1289 RC3 -.0821 FAU .02109 RRT .1068 RRF -.0998 RTF -.9015 CRT .7509 CRS .8372 CST .9894
 FDE .9576 FRA 1.5310 FC3 -.3979 BSP 6652 SGB 2099.4 R23 .0002 R13 -.9015 LSA 1331.9 MSA 237.1 SSA 16.4
 BOE 1.0263 BRA 2.0602 BC3 .1851 FSP -407 SG1 2061.6 SG2 396.5 THA 1.23 EL1 1011.5 EL2 232.0 ALF 16.71

LAUNCH DATE DEC 8 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 279.261
 RL 147.35 LAL -0.00 LOL 75.97 VL 25.994 GAL 9.13 AZL 86.60 MCA 113.51 SMA 117.89 ECC .29331 INC 3.4050 V1 30.237
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.552 GAP -16.36 AZP 91.36 TAL 156.37 TAP 269.87 RCA 83.31 APO 152.47 V2 35.147
 RC 43.055 GL 13.51 GP -.09 ZAL 48.19 ZAP .41 ETS 168.33 ZAE 163.62 ETE 222.45 ZAC 104.06 ETC 166.70 CLP .40

PLANETOCENTRIC CONIC

C3 42.545 VHL 6.523 DLA 23.79 RAL 22.02 RAD 6568.6 VEL 12.803 PTH 2.33 VHP 10.496 DPA .98 RAP 10.38 ECC 1.7002
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 39 3257.86 -25.25 114.77 266.02 76.74 4 56 57 2657.9 -26.83 106.46
 90.00 23 18 48 4190.04 -.28 171.43 256.41 61.68 24 28 38 3590.0 -4.07 164.79
 100.00 5 43 15 2933.50 -27.58 91.49 266.61 77.99 6 32 8 2333.5 -28.96 82.96
 100.00 0 24 49 3989.64 1.80 155.54 255.24 60.16 1 31 19 3389.6 -2.18 149.02
 110.00 7 29 49 2600.11 -33.10 67.36 267.80 80.95 8 13 9 2000.1 -34.00 58.23
 110.00 0 54 45 3895.78 6.58 145.47 252.28 56.38 1 59 41 3295.8 2.12 139.22

DIFFERENTIAL CORRECTIONS

TDE -.9452 TRA-2.0372 TC3 -.1555 BAU .1011 SGT 2134.4 SGR 387.6 SG3 161.4 ST 1016.7 SR 356.2 SS 910.4
 RDE -.4037 RRA .1137 RC3 -.0859 FAU .02227 RRT .1252 RRF -.1148 RTF -.9067 CRT .7601 CRS .8430 CST .9900
 FDE 1.0160 FRA 1.5948 FC3 -.4532 BSP 6807 SGB 2169.3 R23 .0026 R13 -.9067 LSA 1391.5 MSA 230.0 SSA 16.5
 BOE 1.0278 BRA 2.0404 BC3 .1777 FSP -447 SG1 2134.9 SG2 384.5 THA 1.35 EL1 1053.9 EL2 223.3 ALF 15.63

LAUNCH DATE DEC 8 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 286.053

RL 147.35 LAL -.00 LOL 75.97 VL 26.161 GAL 8.73 AZL 86.59 HCA 116.73 SMA 118.81 ECC .28176 INC 3.4067 VI 30.237
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.660 GAP -15.51 AZP 91.53 TAL 156.14 TAP 272.87 RCA 85.33 APO 152.29 V2 35.135
 RC 42.657 GL 14.15 GP -.10 ZAL 48.17 ZAP 1.09 ETS 6.74 ZAE 165.76 ETE 229.88 ZAC 105.74 ETC 166.69 CLP -1.09

PLANETOCENTRIC CONIC

C3 39.510 VHL 6.286 OLA 24.45 RAL 21.92 RAD 6568.5 VEL 12.684 PTH 2.30 VHP 10.013 DPA 1.69 RAP 11.96 ECC 1.6502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 51 52 3275.46 -24.97 115.98 264.61 76.19 4 46 27 2675.5 -26.62 107.71
 90.00 23 28 51 4135.07 -2.06 168.36 255.63 61.75 24 37 46 3535.1 -5.82 161.70
 100.00 5 34 13 2945.44 -27.41 92.34 265.24 77.58 6 23 19 2345.4 -28.84 83.83
 100.00 0 33 6 3940.33 .13 152.83 254.41 60.11 1 38 47 3340.3 -3.87 146.31
 110.00 7 23 20 2604.08 -33.06 67.66 266.49 80.77 8 6 44 2004.1 -33.78 58.54
 110.00 1 0 29 3854.45 5.02 143.29 251.37 56.14 2 4 44 3254.4 .54 137.07

DIFFERENTIAL CORRECTIONS

TDE -.9499 TRA-2.0124 TC3 -.1301 BAU .0832
 RDE -.3777 RRA .0995 RC3 -.0890 FAU .02359
 FDE 1.0807 FRA 1.6637 FC3 -.5169 BSP 7141
 BOE 1.0222 BRA 2.0149 BC3 .1576 FSP -492

MID-COURSE EXECUTION ACCURACY

SGT 2199.2 SGR 375.4 SG3 176.4
 RRT .1401 RRF -.1311 RTF -.9139
 SGB 2231.0 R23 .0007 R13 -.9140
 SGI 2199.9 SG2 371.6 THA 1.41

ORBIT DETERMINATION ACCURACY

ST 1056.0 SR 345.6 SS 955.8
 CRT .7674 CRS .8490 CST .9900
 LSA 1448.3 MSA 223.7 SS 16.3
 EL1 1090.1 EL2 214.6 ALI 14.68

LAUNCH DATE DEC 8 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 292.844

RL 147.35 LAL -.00 LOL 75.97 VL 26.315 GAL 8.35 AZL 86.59 HCA 119.96 SMA 119.68 ECC .27088 INC 3.4085 VI 30.237
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.759 GAP -14.69 AZP 91.70 TAL 155.95 TAP 275.90 RCA 87.26 APO 152.10 V2 35.123
 RC 42.436 GL 14.79 GP -.11 ZAL 48.19 ZAP 2.61 ETS 3.94 ZAE 167.64 ETE 239.65 ZAC 107.38 ETC 166.65 CLP -2.61

PLANETOCENTRIC CONIC

C3 36.751 VHL 6.062 OLA 25.09 RAL 21.78 RAD 6568.4 VEL 12.575 PTH 2.28 VHP 9.546 DPA 2.39 RAP 13.52 ECC 1.6048
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 5 3295.83 -24.63 117.38 263.14 75.57 4 35 1 2695.8 -26.37 109.15
 90.00 23 39 30 4078.13 -3.89 165.17 254.87 61.93 24 47 28 3478.1 -7.61 158.48
 100.00 5 24 33 2959.00 -27.21 93.29 263.83 77.11 6 13 52 2359.0 -28.71 84.81
 100.00 0 41 38 3890.19 -1.57 150.08 253.59 60.14 1 46 28 3290.2 -5.53 143.54
 110.00 7 16 30 2608.75 -33.01 68.02 265.16 80.57 7 59 59 2008.8 -33.96 58.91
 110.00 1 6 10 3813.20 3.45 141.12 250.46 55.97 2 9 44 3213.2 -1.04 134.92

DIFFERENTIAL CORRECTIONS

TDE -.9603 TRA-1.9874 TC3 -.1075 BAU .0695
 RDE -.3527 RRA .0859 RC3 -.0919 FAU .02506
 FDE 1.1526 FRA 1.7384 FC3 -.5902 BSP 7374
 BOE 1.0230 BRA 1.9892 BC3 .1414 FSP -542

MID-COURSE EXECUTION ACCURACY

SGT 2267.6 SGR 362.7 SG3 193.0
 RRT .1593 RRF -.1490 RTF -.9196
 SGB 2296.5 R23 .0013 R13 -.9196
 SGI 2268.4 SG2 358.0 THA 1.50

ORBIT DETERMINATION ACCURACY

ST 1100.4 SR 334.5 SS 1004.5
 CRT .7766 CRS .8554 CST .9903
 LSA 1511.5 MSA 216.4 SSA 16.2
 EL1 1131.7 EL2 204.9 ALF 13.74

LAUNCH DATE DEC 8 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 299.632

RL 147.35 LAL -.00 LOL 75.97 VL 26.459 GAL 7.98 AZL 86.59 HCA 123.18 SMA 120.50 ECC .26064 INC 3.4104 VI 30.237
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.850 GAP -13.90 AZP 91.87 TAL 155.79 TAP 278.97 RCA 89.10 APO 151.91 V2 35.111
 RC 42.394 GL 15.45 GP -.12 ZAL 48.27 ZAP 4.17 ETS 3.26 ZAE 169.10 ETE 252.23 ZAC 108.99 ETC 166.61 CLP -4.17

PLANETOCENTRIC CONIC

C3 34.247 VHL 5.852 OLA 25.73 RAL 21.59 RAD 6568.4 VEL 12.475 PTH 2.26 VHP 9.094 DPA 3.06 RAP 15.04 ECC 1.5636
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 27 5 3319.78 -24.21 119.01 261.61 74.85 4 22 25 2719.8 -26.06 110.83
 90.00 23 50 58 4018.53 -5.79 161.83 254.15 62.23 24 57 57 3418.5 -9.46 155.07
 100.00 5 14 11 2974.47 -26.97 94.38 262.38 76.59 6 3 46 2374.5 -28.54 85.93
 100.00 0 50 29 3839.07 -3.30 147.27 252.78 60.27 1 54 28 3239.1 -7.23 140.69
 110.00 7 9 20 2614.19 -32.95 68.43 263.79 80.33 7 52 54 2014.2 -33.93 59.33
 110.00 1 11 49 3772.12 1.89 138.98 249.55 55.86 2 14 41 3172.1 -2.61 132.77

DIFFERENTIAL CORRECTIONS

TDE -.9708 TRA-1.9604 TC3 -.0812 BAU .0569
 RDE -.3287 RRA .0732 RC3 -.0942 FAU .02669
 FDE 1.2328 FRA 1.8199 FC3 -.6748 BSP 7604
 BOE 1.0249 BRA 1.9618 BC3 .1244 FSP -598

MID-COURSE EXECUTION ACCURACY

SGT 2334.9 SGR 349.4 SG3 211.5
 RRT .1801 RRF -.1685 RTF -.9248
 SGB 2360.9 R23 .0018 R13 -.9248
 SGI 2335.7 SG2 343.6 THA 1.58

ORBIT DETERMINATION ACCURACY

ST 1145.4 SR 322.8 SS 1057.0
 CRT .7863 CRS .8620 CST .9907
 LSA 1577.8 MSA 208.9 SSA 16.0
 EL1 1174.0 EL2 194.6 ALF 12.85

LAUNCH DATE DEC 8 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 306.413

RL 147.35 LAL -.00 LOL 75.97 VL 26.592 GAL 7.63 AZL 86.59 HCA 126.40 SMA 121.28 ECC .25103 INC 3.4125 VI 30.237
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.934 GAP -13.13 AZP 92.03 TAL 155.68 TAP 282.08 RCA 90.84 APO 151.73 V2 35.099
 RC 42.534 GL 16.11 GP -.13 ZAL 48.39 ZAP 5.77 ETS 3.00 ZAE 169.94 ETE 267.34 ZAC 110.56 ETC 166.55 CLP -5.77

PLANETOCENTRIC CONIC

C3 31.975 VHL 5.655 OLA 26.35 RAL 21.35 RAD 6568.3 VEL 12.383 PTH 2.24 VHP 8.658 DPA 3.71 RAP 16.52 ECC 1.5262
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 12 29 3348.56 -23.69 120.96 260.01 74.01 4 8 17 2748.6 -25.65 112.84
 90.00 0 7 36 3955.14 -7.78 158.24 253.48 62.69 1 13 31 3355.1 -11.38 151.41
 100.00 5 3 1 2992.22 -26.68 95.62 260.90 75.99 5 52 53 2392.2 -28.34 87.21
 100.00 0 59 45 3786.71 -5.06 144.39 252.00 60.50 2 2 52 3186.7 -8.95 137.76
 110.00 7 1 50 2620.46 -32.88 68.90 262.41 80.06 7 45 30 2020.5 -33.90 59.82
 110.00 1 17 26 3731.24 .32 136.84 248.66 55.82 2 19 37 3131.2 -4.16 130.63

DIFFERENTIAL CORRECTIONS

TDE -.9788 TRA-1.9287 TC3 -.0482 BAU .0459
 RDE -.3057 RRA .0613 RC3 -.0959 FAU .02857
 FDE 1.3214 FRA 1.9077 FC3 -.7735 BSP 7883
 BOE 1.0254 BRA 1.9297 BC3 .1073 FSP -662

MID-COURSE EXECUTION ACCURACY

SGT 2396.4 SGR 335.4 SG3 232.0
 RRT .2015 RRF -.1892 RTF -.9300
 SGB 2419.8 R23 .0018 R13 -.9300
 SGI 2397.4 SG2 328.4 THA 1.65

ORBIT DETERMINATION ACCURACY

ST 1188.1 SR 310.4 SS 1112.6
 CRT .7959 CRS .8688 CST .9910
 LSA 1644.7 MSA 201.4 SSA 15.8
 EL1 1214.2 EL2 183.9 ALF 12.03

LAUNCH DATE DEC 8 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 313.187

RL 147.35 LAL -0.00 LOL 75.97 VL 26.716 GAL 7.31 AZL 86.59 MCA 129.62 SMA 122.02 ECC .24202 INC 3.4148 VI 30.237
 RP 108.01 LAP 2.63 LOP 205.64 VP 37.011 GAP -12.38 AZP 92.18 TAL 155.60 TAP 285.22 RCA 92.49 APO 151.55 V2 35.086
 RC 42.853 GL 16.77 GP -1.14 ZAL 48.56 ZAP 7.43 ETS 2.89 ZAE 170.06 ETE 283.39 ZAC 112.07 ETC 166.47 CLP -7.43

PLANETOCENTRIC CONIC

C3 29.917 VHL 5.470 DLA 26.97 RAL 21.07 RAD 6568.2 VEL 12.300 PTH 2.22 VHP 8.236 DPA 4.34 RAP 17.95 ECC 1.4924
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 35 3384.55 -22.99 123.37 258.34 73.00 3 52 0 2784.6 -25.10 115.33
 90.00 0 22 16 3885.73 -9.93 154.27 252.90 63.34 1 27 2 3285.7 -13.43 147.34
 100.00 4 50 54 3012.78 -26.33 97.05 259.38 75.32 5 41 7 2412.8 -28.09 88.69
 100.00 1 9 38 3732.73 -6.86 141.39 251.25 60.83 2 11 50 3132.7 -10.70 134.70
 110.00 6 53 59 2627.64 -32.79 69.45 261.02 79.75 7 37 47 2027.6 -33.86 60.37
 110.00 1 23 2 3690.64 -1.23 134.73 247.78 55.84 2 24 33 3090.6 -5.70 128.50

DIFFERENTIAL CORRECTIONS

TDE -.9894 TRA-1.8976 TC3 -.0147 BAU .0392
 RDE -.2836 RRA .0501 RC3 -.0969 FAU .03062
 FDE 1.4219 FRA 2.0053 FC3 -.8860 BSP .8098
 BOE 1.0293 BRA 1.8983 BC3 .0980 FSP -732

MID-COURSE EXECUTION ACCURACY

SGT 2459.4 SGR 320.9 SG3 255.0
 RRT .2259 RRF -.2122 RTF -.9346
 SGB 2480.3 R23 .0025 R13 -.9346
 SG1 2460.5 SG2 312.5 THA 1.72

ORBIT DETERMINATION ACCURACY

ST 1233.7 SR 297.7 SS 1173.5
 CRT .8064 CRS .8760 CST .9914
 LSA 1717.5 MSA 193.7 SSA 15.5
 EL1 1257.3 EL2 172.7 ALF 11.23

LAUNCH DATE DEC 8 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 319.951

RL 147.35 LAL -0.00 LOL 75.97 VL 26.830 GAL 7.00 AZL 86.58 MCA 132.83 SMA 122.71 ECC .23360 INC 3.4172 VI 30.237
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.081 GAP -11.67 AZP 92.32 TAL 155.56 TAP 288.39 RCA 94.04 APO 151.37 V2 35.073
 RC 43.347 GL 17.44 GP -1.16 ZAL 48.77 ZAP 9.14 ETS 2.86 ZAE 169.51 ETE 298.10 ZAC 113.52 ETC 166.39 CLP -9.14

PLANETOCENTRIC CONIC

C3 28.054 VHL 5.297 DLA 27.57 RAL 20.75 RAD 6568.1 VEL 12.224 PTH 2.20 VHP 7.829 DPA 4.94 RAP 19.54 ECC 1.4617
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 42 3433.23 -21.99 126.58 256.52 71.69 3 31 55 2833.2 -24.29 118.66
 90.00 0 40 35 3804.91 -12.36 149.57 252.46 64.32 1 44 0 3204.9 -15.71 142.50
 100.00 4 37 39 3036.91 -25.91 98.72 257.82 74.54 5 28 15 2436.9 -27.78 90.42
 100.00 1 20 19 3676.45 -8.71 138.24 250.55 61.29 2 21 36 3076.5 -12.48 131.48
 110.00 6 45 49 2635.78 -32.69 70.06 259.62 79.40 7 29 45 2035.8 -33.81 61.00
 110.00 1 28 38 3650.35 -2.77 132.62 246.91 55.92 2 29 28 3050.4 -7.22 126.37

DIFFERENTIAL CORRECTIONS

TDE -.9998 TRA-1.8644 TC3 .0222 BAU .0374
 RDE -.2625 RRA .0397 RC3 -.0971 FAU .03291
 FDE 1.5350 FRA 2.1130 FC3 -1.0155 BSP .8297
 BOE 1.0337 BRA 1.8649 BC3 .0996 FSP -810

MID-COURSE EXECUTION ACCURACY

SGT 2519.3 SGR 305.9 SG3 280.8
 RRT .2523 RRF -.2372 RTF -.9389
 SGB 2537.8 R23 .0031 R13 -.9389
 SG1 2520.5 SG2 295.8 THA 1.78

ORBIT DETERMINATION ACCURACY

ST 1278.9 SR 284.3 SS 1239.3
 CRT .8172 CRS .8833 CST .9918
 LSA 1793.7 MSA 186.1 SSA 15.2
 EL1 1300.2 EL2 161.2 ALF 10.46

LAUNCH DATE DEC 8 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 326.703

RL 147.35 LAL -0.00 LOL 75.97 VL 26.935 GAL 6.71 AZL 86.58 MCA 136.04 SMA 123.35 ECC .22574 INC 3.4200 VI 30.237
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.145 GAP -10.97 AZP 92.46 TAL 155.55 TAP 291.59 RCA 95.51 APO 151.20 V2 35.060
 RC 44.011 GL 18.11 GP -1.18 ZAL 49.01 ZAP 10.91 ETS 2.86 ZAE 168.49 ETE 310.11 ZAC 114.91 ETC 166.30 CLP -10.91

PLANETOCENTRIC CONIC

C3 26.371 VHL 5.135 DLA 28.16 RAL 20.39 RAD 6568.1 VEL 12.155 PTH 2.18 VHP 7.436 DPA 5.50 RAP 20.67 ECC 1.4340
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 28 3518.50 -20.06 132.09 254.30 69.59 3 1 6 2918.5 -22.66 124.38
 90.00 1 9 58 3688.86 -15.67 142.66 252.43 66.11 2 11 26 3088.9 -18.77 135.36
 100.00 4 22 51 3065.86 -25.36 100.70 256.22 73.63 5 13 57 2465.9 -27.36 92.47
 100.00 1 32 15 3616.73 -10.65 134.86 249.91 61.90 2 32 32 3016.7 -14.32 128.00
 110.00 6 37 20 2644.93 -32.57 70.75 258.22 79.01 7 21 25 2044.9 -33.74 61.71
 110.00 1 34 16 3610.42 -4.29 130.53 246.06 56.05 2 34 26 3010.4 -8.72 124.24

DIFFERENTIAL CORRECTIONS

TDE -1.0096 TRA-1.8291 TC3 .0620 BAU .0404
 RDE -.2422 RRA .0301 RC3 -.0965 FAU .03548
 FDE 1.6621 FRA 2.2318 FC3 -1.1647 BSP .8483
 BOE 1.0383 BRA 1.8293 BC3 .1147 FSP -897

MID-COURSE EXECUTION ACCURACY

SGT 2575.1 SGR 290.3 SG3 309.7
 RRT .2806 RRF -.2640 RTF -.9429
 SGB 2591.4 R23 .0038 R13 -.9429
 SG1 2576.4 SG2 278.5 THA 1.83

ORBIT DETERMINATION ACCURACY

ST 1323.3 SR 270.5 SS 1310.2
 CRT .8282 CRS .8908 CST .9922
 LSA 1873.2 MSA 178.7 SSA 14.8
 EL1 1342.4 EL2 149.4 ALF 9.73

LAUNCH DATE DEC 8 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 333.441

RL 147.35 LAL -0.00 LOL 75.97 VL 27.033 GAL 6.43 AZL 86.58 MCA 139.25 SMA 123.96 ECC .21843 INC 3.4231 VI 30.237
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.203 GAP -10.29 AZP 92.59 TAL 155.57 TAP 294.82 RCA 96.88 APO 151.03 V2 35.047
 RC 44.838 GL 18.77 GP -1.20 ZAL 49.29 ZAP 12.76 ETS 2.88 ZAE 167.22 ETE 319.32 ZAC 116.23 ETC 166.20 CLP -12.76

PLANETOCENTRIC CONIC

C3 24.851 VHL 4.985 DLA 28.73 RAL 20.00 RAD 6568.0 VEL 12.092 PTH 2.16 VHP 7.058 DPA 6.03 RAP 21.93 ECC 1.4090
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.91 0 52 20 3725.99 -18.59 146.68 252.18 67.69 1 54 26 3126.0 -21.45 139.15
 95.09 2 16 57 3452.05 -18.57 126.61 252.18 67.67 3 14 29 2852.0 -21.44 119.08
 100.00 4 5 49 3102.02 -24.65 103.15 254.54 72.53 4 57 31 2502.0 -26.81 95.01
 100.00 1 46 10 3551.25 -12.72 131.11 249.37 62.72 2 45 21 2951.2 -16.28 124.12
 110.00 6 28 32 2655.16 -32.44 71.52 256.82 78.57 7 12 48 2055.2 -33.67 62.50
 110.00 1 39 56 3570.87 -5.79 128.45 245.24 56.25 2 39 26 2970.9 -10.18 122.12

DIFFERENTIAL CORRECTIONS

TDE -1.0163 TRA-1.7890 TC3 .1082 BAU .0478
 RDE -.2226 RRA .0215 RC3 -.0949 FAU .03843
 FDE 1.8042 FRA 2.3619 FC3 -1.3390 BSP .8713
 BOE 1.0403 BRA 1.7891 BC3 .1439 FSP -999

MID-COURSE EXECUTION ACCURACY

SGT 2622.0 SGR 274.2 SG3 342.0
 RRT .3097 RRF -.2921 RTF -.9468
 SGB 2636.3 R23 .0042 R13 -.9468
 SG1 2623.3 SG2 260.6 THA 1.87

ORBIT DETERMINATION ACCURACY

ST 1363.5 SR 255.9 SS 1385.8
 CRT .8391 CRS .8983 CST .9926
 LSA 1953.3 MSA 171.6 SSA 14.3
 EL1 1380.5 EL2 137.5 ALF 9.04

LAUNCH DATE DEC 8 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 340.165

RL 147.35 LAL -1.00 LOL 75.97 VL 27.122 GAL 6.18 AZL 86.57 MCA 142.46 SMA 124.52 ECC .21164 INC 3.4266 V1 30.237
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.256 GAP -9.64 AZP 92.72 TAL 155.61 TAP 298.07 RCA 98.17 APO 150.87 V2 35.033
 RC 45.818 GL 19.43 GP -23 ZAL 49.60 ZAP 14.69 ETS 2.92 ZAE 165.87 ETE 326.25 ZAC 117.47 ETC 166.11 CLP -14.69

PLANETOCENTRIC CONIC

C3 23.482 VHL 4.846 DLA 29.29 RAL 19.58 RAD 6568.0 VEL 12.036 PTH 2.15 VHP 6.694 DPA 6.52 RAP 23.12 ECC 1.3864
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.18 0 28 38 3783.03 -19.29 151.19 250.99 67.52 1 31 41 3183.0 -22.17 143.63
 97.82 2 37 18 3367.21 -19.28 120.67 250.98 67.51 3 33 25 2767.2 -22.16 113.10
 100.00 3 44 40 3151.35 -23.60 106.44 252.74 71.10 4 37 11 2551.4 -25.96 98.43
 100.00 2 3 57 3474.12 -15.08 126.60 249.00 63.88 3 1 52 2874.1 -18.47 119.44
 110.00 6 19 26 2666.52 -32.28 72.36 255.44 78.09 7 3 53 2066.5 -33.58 63.37
 110.00 1 45 40 3531.72 -7.27 126.38 244.44 56.51 2 44 32 2931.7 -11.62 120.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0248 TRA-1.7500 TC3 .1510 BAU .0556
 RDE -.2037 RRA .0135 RC3 -.0926 FAU .04165
 FDE 1.9673 FRA 2.5091 FC3-1.5356 BSP 8836
 BDE 1.0449 BRA 1.7501 BC3 .1771 FSP -1108

SGT 2668.1 SGR 257.7 SG3 378.6
 RRT .3423 RRF -.3229 RTF -.9501
 SGB 2680.5 R23 .0053 R13 -.9501
 SG1 2669.5 SG2 242.0 THA 1.91

ST 1405.3 SR 241.0 SS 1469.3
 CRT .8504 CRS .9060 CST .9930
 LSA 2040.7 MSA 164.8 SSA 13.7
 EL1 1420.3 EL2 125.4 ALF 8.36

LAUNCH DATE DEC 8 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 346.872

RL 147.35 LAL -1.00 LOL 75.97 VL 27.204 GAL 5.94 AZL 86.57 MCA 145.67 SMA 125.05 ECC .20535 INC 3.4306 V1 30.237
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.303 GAP -9.00 AZP 92.83 TAL 155.68 TAP 301.35 RCA 99.37 APO 150.72 V2 35.020
 RC 46.944 GL 20.08 GP -26 ZAL 49.93 ZAP 16.72 ETS 2.98 ZAE 164.57 ETE 331.50 ZAC 118.61 ETC 166.01 CLP -16.72

PLANETOCENTRIC CONIC

C3 22.250 VHL 4.717 DLA 29.83 RAL 19.13 RAD 6567.9 VEL 11.985 PTH 2.14 VHP 6.343 DPA 6.96 RAP 24.22 ECC 1.3662
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.20 0 11 29 3819.18 -19.97 154.17 249.82 67.37 1 15 8 3219.2 -22.87 146.57
 99.80 2 50 54 3304.85 -19.96 116.35 249.81 67.36 3 45 59 2704.8 -22.86 108.75
 100.00 3 8 41 3248.02 -21.33 112.72 250.40 68.54 4 2 49 2648.0 -24.05 104.98
 100.00 2 36 22 3351.24 -18.62 119.19 249.20 66.18 3 32 14 2751.2 -21.68 111.73
 110.00 6 10 2 2679.09 -32.10 73.30 254.07 77.56 6 54 41 2079.1 -33.48 64.34
 110.00 1 51 31 3492.94 -8.72 124.32 243.68 56.82 2 49 44 2892.9 -13.02 117.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0283 TRA-1.7052 TC3 .2001 BAU .0652
 RDE -.1854 RRA .0065 RC3 -.0891 FAU .04539
 FDE 2.1493 FRA 2.6704 FC3-1.7659 BSP 9017
 BDE 1.0449 BRA 1.7053 BC3 .2190 FSP -1237

SGT 2701.2 SGR 240.5 SG3 419.5
 RRT .3751 RRF -.3543 RTF -.9534
 SGB 2711.9 R23 .0061 R13 -.9533
 SG1 2702.8 SG2 222.8 THA 1.93

ST 1439.9 SR 225.2 SS 1557.5
 CRT .8613 CRS .9135 CST .9933
 LSA 2127.1 MSA 158.5 SSA 12.9
 EL1 1453.0 EL2 113.4 ALF 7.72

LAUNCH DATE DEC 8 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 353.561

RL 147.35 LAL -1.00 LOL 75.97 VL 27.280 GAL 5.72 AZL 86.56 MCA 148.87 SMA 125.53 ECC .19954 INC 3.4354 V1 30.237
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.346 GAP -8.39 AZP 92.94 TAL 155.78 TAP 304.64 RCA 100.48 APO 150.58 V2 35.007
 RC 48.205 GL 20.72 GP -30 ZAL 50.28 ZAP 18.85 ETS 3.04 ZAE 163.40 ETE 335.51 ZAC 119.65 ETC 165.92 CLP -18.85

PLANETOCENTRIC CONIC

C3 21.145 VHL 4.598 DLA 30.35 RAL 18.67 RAD 6567.9 VEL 11.938 PTH 2.12 VHP 6.006 DPA 7.35 RAP 25.23 ECC 1.3480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.59 23 53 32 3845.60 -20.63 156.43 248.68 67.23 24 57 38 3245.6 -23.54 148.80
 101.41 3 1 12 3253.83 -20.62 112.84 248.67 67.22 3 55 25 2653.8 -23.52 105.21
 78.59 23 53 32 3845.60 -20.63 156.43 248.68 67.23 24 57 38 3245.6 -23.54 148.80
 101.41 3 1 12 3253.83 -20.62 112.84 248.67 67.22 3 55 25 2653.8 -23.52 105.21
 110.00 6 0 20 2692.96 -31.89 74.33 252.72 76.99 6 45 13 2093.0 -33.35 65.40
 110.00 1 57 31 3454.47 -10.14 122.25 242.96 57.18 2 55 5 2854.5 -14.40 115.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0236 TRA-1.6521 TC3 .2608 BAU .0775
 RDE -.1672 RRA .0006 RC3 -.0845 FAU .04988
 FDE 2.3498 FRA 2.8446 FC3-2.0421 BSP 9310
 BDE 1.0372 BRA 1.6521 BC3 .2741 FSP -1395

SGT 2715.6 SGR 222.4 SG3 465.0
 RRT .4059 RRF -.3850 RTF -.9566
 SGB 2724.7 R23 .0060 R13 -.9566
 SG1 2717.1 SG2 203.1 THA 1.91

ST 1462.5 SR 208.4 SS 1648.8
 CRT .8714 CRS .9208 CST .9935
 LSA 2208.4 MSA 153.2 SSA 12.0
 EL1 1473.8 EL2 101.5 ALF 7.11

LAUNCH DATE DEC 8 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 360.232

RL 147.35 LAL -1.00 LOL 75.97 VL 27.349 GAL 5.51 AZL 86.56 MCA 152.07 SMA 125.98 ECC .19420 INC 3.4412 V1 30.237
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.384 GAP -7.79 AZP 93.04 TAL 155.89 TAP 307.95 RCA 101.51 APO 150.44 V2 34.994
 RC 49.590 GL 21.34 GP -35 ZAL 50.65 ZAP 21.10 ETS 3.11 ZAE 162.42 ETE 338.59 ZAC 120.57 ETC 165.84 CLP -21.10

PLANETOCENTRIC CONIC

C3 20.156 VHL 4.490 DLA 30.86 RAL 18.19 RAD 6567.8 VEL 11.897 PTH 2.11 VHP 5.683 DPA 7.68 RAP 26.12 ECC 1.3317
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.20 23 41 29 3866.28 -21.26 158.26 247.58 67.09 24 45 55 3266.3 -24.18 150.60
 102.80 3 9 25 3210.22 -21.24 109.86 247.57 67.08 4 2 55 2610.2 -24.16 102.20
 77.20 23 41 29 3866.28 -21.26 158.26 247.58 67.09 24 45 55 3266.3 -24.18 150.60
 102.80 3 9 25 3210.22 -21.24 109.86 247.57 67.08 4 2 55 2610.2 -24.16 102.20
 110.00 5 50 17 2708.30 -31.65 75.46 251.40 76.36 6 35 25 2108.3 -33.20 66.58
 110.00 2 3 43 3416.20 -11.55 120.18 242.28 57.60 3 0 40 2816.2 -15.74 113.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0132 TRA-1.5933 TC3 .3259 BAU .0903
 RDE -.1493 RRA -.0043 RC3 -.0788 FAU .05509
 FDE 2.5734 FRA 3.0351 FC3-2.3664 BSP 9625
 BDE 1.0242 BRA 1.5933 BC3 .3353 FSP -1581

SGT 2714.5 SGR 203.4 SG3 515.9
 RRT .4359 RRF -.4149 RTF -.9597
 SGB 2722.1 R23 .0059 R13 -.9597
 SG1 2715.9 SG2 182.9 THA 1.88

ST 1475.5 SR 190.6 SS 1744.6
 CRT .8810 CRS .9279 CST .9937
 LSA 2288.0 MSA 148.5 SSA 10.9
 EL1 1485.1 EL2 89.6 ALF 6.52

LAUNCH DATE DEC 8 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 366.893

RL 147.35 LAL -0.00 LOL 75.97 VL 27.411 GAL 5.32 AZL 86.55 MCA 155.27 SMA 126.39 ECC .18932 INC 3.4482 V1 30.237
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.417 GAP -7.21 AZP 93.13 TAL 156.00 TAP 311.27 RCA 102.46 APO 150.32 V2 34.980
 RC 51.091 GL 21.95 GP -.41 ZAL 51.01 ZAP 23.49 ETS 3.19 ZAE 161.67 ETE 340.98 ZAC 121.37 ETC 165.78 CLP -23.48

PLANETOCENTRIC CONIC

C3 19.282 VHL 4.391 DLA 31.34 RAL 17.71 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 5.375 OPA 7.94 RAP 26.91 ECC 1.3173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.97 23 30 52 3883.27 -21.86 159.82 246.54 66.96 24 35 35 3283.3 -24.79 152.12
 104.03 3 16 15 3172.19 -21.84 107.26 246.53 66.95 4 9 7 2572.2 -24.77 99.57
 75.97 23 30 52 3883.27 -21.86 159.82 246.54 66.96 24 35 35 3283.3 -24.79 152.12
 104.03 3 16 15 3172.19 -21.84 107.26 246.53 66.95 4 9 7 2572.2 -24.77 99.57
 110.00 5 39 54 2725.46 -31.37 76.72 250.13 75.66 6 25 20 2125.5 -33.02 67.88
 110.00 2 10 19 3378.00 -12.93 118.08 241.68 58.08 3 6 37 2778.0 -17.06 111.40

DIFFERENTIAL CORRECTIONS

TDE-1.0938 TRA-1.6265 TC3 .1914 BAU .0535
 RDE -.1347 RRA -.0114 RC3 -.0797 FAU .05547
 FDE 2.9549 FRA 3.3790 FC3-2.4906 BSP 7608
 BOE 1.1020 BRA 1.6265 BC3 .2073 FSP -1545

MID-COURSE EXECUTION ACCURACY

SGT 2870.4 SGR 190.0 SG3 587.9
 RRT .5179 RRF -.4755 RTF -.9573
 SGB 2876.7 R23 .0256 R13 -.9573
 SG1 2872.1 S62 162.4 TMA 1.97

ORBIT DETERMINATION ACCURACY

ST 1610.1 SR 175.8 SS 1929.9
 CRT .8997 CRS .9383 CST .9950
 LSA 2515.6 MSA 140.5 SSA 10.8
 EL1 1617.9 EL2 76.4 ALF 5.62

LAUNCH DATE DEC 8 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 373.522

RL 147.35 LAL -0.00 LOL 75.97 VL 27.469 GAL 5.14 AZL 86.54 MCA 158.46 SMA 126.77 ECC .18484 INC 3.4573 V1 30.237
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.447 GAP -6.64 AZP 93.22 TAL 156.13 TAP 314.60 RCA 103.34 APO 150.20 V2 34.967
 RC 52.697 GL 22.56 GP -.50 ZAL 51.39 ZAP 26.03 ETS 3.29 ZAE 161.18 ETE 342.78 ZAC 122.02 ETC 165.75 CLP -26.03

PLANETOCENTRIC CONIC

C3 18.498 VHL 4.301 DLA 31.81 RAL 17.21 RAD 6567.7 VEL 11.827 PTH 2.09 VHP 5.080 OPA 8.11 RAP 27.54 ECC 1.3044
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.86 23 21 11 3897.60 -22.43 161.16 245.52 66.83 24 26 9 3297.6 -25.37 153.44
 105.14 3 21 56 3138.31 -22.42 104.96 245.51 66.81 4 14 15 2538.3 -25.36 97.24
 74.86 23 21 11 3897.60 -22.43 161.16 245.52 66.83 24 26 9 3297.6 -25.37 153.44
 105.14 3 21 56 3138.31 -22.42 104.96 245.51 66.81 4 14 15 2538.3 -25.36 97.24
 110.00 5 28 57 2744.63 -31.04 78.11 248.86 74.90 6 14 42 2144.6 -32.80 69.33
 110.00 2 17 17 3339.27 -14.32 115.94 241.12 58.62 3 12 56 2739.3 -18.37 109.16

DIFFERENTIAL CORRECTIONS

TDE-1.0346 TRA-1.5204 TC3 .3306 BAU .0836
 RDE -.1151 RRA -.0125 RC3 -.0704 FAU .06414
 FDE 3.1979 FRA 3.5704 FC3-3.0020 BSP 8795
 BOE 1.0410 BRA 1.5205 BC3 .3380 FSP -1874

MID-COURSE EXECUTION ACCURACY

SGT 2767.9 SGR 166.1 SG3 647.4
 RRT .5238 RRF -.4874 RTF -.9617
 SGB 2772.9 R23 .0208 R13 -.9617
 SG1 2769.3 SG2 141.4 TMA 1.80

ORBIT DETERMINATION ACCURACY

ST 1552.7 SR 153.5 SS 2010.0
 CRT .9045 CRS .9433 CST .9946
 LSA 2540.7 MSA 139.0 SSA 9.0
 EL1 1558.9 EL2 65.2 ALF 5.12

LAUNCH DATE DEC 8 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 380.134

RL 147.35 LAL -0.00 LOL 75.97 VL 27.520 GAL 4.98 AZL 86.53 MCA 161.66 SMA 127.12 ECC .18077 INC 3.4693 V1 30.237
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.473 GAP -6.10 AZP 93.29 TAL 156.27 TAP 317.93 RCA 104.14 APO 150.09 V2 34.954
 RC 54.398 GL 23.15 GP -.61 ZAL 51.77 ZAP 28.75 ETS 3.42 ZAE 160.98 ETE 344.06 ZAC 122.51 ETC 165.76 CLP -28.74

PLANETOCENTRIC CONIC

C3 17.811 VHL 4.220 DLA 32.27 RAL 16.72 RAD 6567.7 VEL 11.798 PTH 2.09 VHP 4.799 OPA 8.19 RAP 28.04 ECC 1.2931
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.83 23 12 19 3910.29 -22.97 162.38 244.57 66.69 24 17 30 3310.3 -25.93 154.63
 106.17 3 26 52 3107.94 -22.96 102.90 244.56 66.67 4 18 40 2507.9 -25.91 95.15
 73.83 23 12 19 3910.29 -22.97 162.38 244.57 66.69 24 17 30 3310.3 -25.93 154.63
 106.17 3 26 52 3107.94 -22.96 102.90 244.56 66.67 4 18 40 2507.9 -25.91 95.15
 110.00 5 17 17 2766.81 -30.63 79.72 247.63 74.03 6 3 24 2166.8 -32.52 71.00
 110.00 2 25 1 3299.41 -15.72 113.70 240.65 59.25 3 20 0 2699.4 -19.68 106.82

DIFFERENTIAL CORRECTIONS

TDE-1.0089 TRA-1.4494 TC3 .3812 BAU .0921
 RDE -.0962 RRA -.0133 RC3 -.0644 FAU .07138
 FDE 3.5327 FRA 3.8432 FC3-3.4696 BSP 8969
 BOE 1.0135 BRA 1.4494 BC3 .3866 FSP -2132

MID-COURSE EXECUTION ACCURACY

SGT 2719.5 SGR 143.1 SG3 721.1
 RRT .5430 RRF -.5021 RTF -.9637
 SGB 2723.2 R23 .0265 R13 -.9636
 SG1 2720.6 S62 120.1 TMA 1.64

ORBIT DETERMINATION ACCURACY

ST 1537.4 SR 130.8 SS 2131.9
 CRT .9120 CRS .9491 CST .9946
 LSA 2628.1 MSA 136.6 SSA 7.5
 EL1 1542.1 EL2 53.5 ALF 4.44

LAUNCH DATE DEC 8 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 386.726

RL 147.35 LAL -0.00 LOL 75.97 VL 27.567 GAL 4.84 AZL 86.51 MCA 164.85 SMA 127.43 ECC .17709 INC 3.4862 V1 30.237
 RP 108.45 LAP .91 LOP 240.85 VP 37.496 GAP -5.56 AZP 93.37 TAL 156.40 TAP 321.25 RCA 104.86 APO 150.00 V2 34.942
 RC 56.186 GL 23.74 GP -.78 ZAL 52.15 ZAP 31.65 ETS 3.58 ZAE 161.07 ETE 344.84 ZAC 122.84 ETC 165.83 CLP -31.65

PLANETOCENTRIC CONIC

C3 17.215 VHL 4.149 DLA 32.73 RAL 16.22 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 4.533 OPA 8.15 RAP 28.37 ECC 1.2833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.85 23 3 56 3922.32 -23.50 163.55 243.68 66.53 24 9 18 3322.3 -26.46 155.77
 107.15 3 31 19 3080.12 -23.48 101.02 243.68 66.52 4 22 39 2480.1 -26.45 93.24
 72.85 23 3 56 3922.32 -23.50 163.55 243.68 66.53 24 9 18 3322.3 -26.46 155.77
 107.15 3 31 19 3080.12 -23.48 101.02 243.68 66.52 4 22 39 2480.1 -26.45 93.24
 110.00 5 4 21 2793.63 -30.12 81.63 246.41 73.01 5 50 54 2193.6 -32.14 73.01
 110.00 2 34 0 3256.81 -17.18 111.27 240.29 59.99 3 28 17 2656.8 -21.04 104.26

DIFFERENTIAL CORRECTIONS

TDE -.9828 TRA-1.3797 TC3 .4071 BAU .0947
 RDE -.0761 RRA -.0123 RC3 -.0600 FAU .07898
 FDE 3.9256 FRA 4.1585 FC3-3.9718 BSP 8907
 BOE .9858 BRA 1.3797 BC3 .4115 FSP -2401

MID-COURSE EXECUTION ACCURACY

SGT 2661.9 SGR 118.0 SG3 805.2
 RRT .5455 RRF -.4935 RTF -.9647
 SGB 2664.5 R23 .0399 R13 -.9647
 SG1 2662.6 SG2 98.9 TMA 1.39

ORBIT DETERMINATION ACCURACY

ST 1517.8 SR 105.2 SS 2269.7
 CRT .9182 CRS .9537 CST .9947
 LSA 2729.1 MSA 134.8 SSA 6.1
 EL1 1520.9 EL2 41.6 ALF 3.65

LAUNCH DATE DEC 8 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 393.298

RL 147.35 LAL -.00 LOL 75.97 VL 27.609 GAL 4.71 AZL 86.49 HCA 168.04 SMA 127.71 ECC .17379 INC 3.5115 V1 30.237
 RP 108.49 LAP .73 LOP 244.03 VP 37.515 GAP -5.04 AZP 93.44 TAL 156.53 TAP 324.57 RCA 105.52 APO 149.91 V2 34.929
 RC 58.051 GL 24.35 GP -1.05 ZAL 52.53 ZAP 34.78 ETS 3.82 ZAE 161.47 ETE 344.98 ZAC 122.98 ETC 165.99 CLP -34.76

PLANETOCENTRIC CONIC

C3 16.710 VHL 4.088 DLA 33.21 RAL 15.72 RAD 6567.7 VEL 11.751 PTH 2.07 VHP 4.282 DPA 7.93 RAP 28.54 ECC 1.2750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.88 22 55 42 3934.75 -24.01 164.75 242.87 66.33 24 1 16 3334.8 -27.00 156.94
 108.12 3 35 33 3053.98 -23.99 99.25 242.86 66.32 4 26 27 2454.0 -26.99 91.45
 71.88 22 55 42 3934.75 -24.01 164.75 242.87 66.33 24 1 16 3334.8 -27.00 156.94
 108.12 3 35 33 3053.98 -23.99 99.25 242.86 66.32 4 26 27 2454.0 -26.99 91.45
 110.00 4 48 48 2829.22 -29.38 84.14 245.18 71.69 5 35 57 2229.2 -31.60 75.64
 110.00 2 45 33 3207.51 -18.84 108.00 240.12 60.93 3 39 1 2607.5 -22.57 101.25

DIFFERENTIAL CORRECTIONS

TDE -.9521 TRA-1.3069 TC3 .4119 BAU .0930
 RDE -.0531 RRA -.0079 RC3 -.0587 FAU .08700
 FDE 4.3847 FRA 4.5171 FC3-4.5075 BSP 8678
 BDE .9535 BRA 1.3069 BC3 .4161 FSP -2683

MID-COURSE EXECUTION ACCURACY

SGT 2586.1 SGR 89.5 SG3 900.4
 RRT .4834 RRF -.4071 RTF -.9651
 SGB 2587.6 R23 .0684 R13 -.9650
 SG1 2586.4 SG2 78.3 THA .96

ORBIT DETERMINATION ACCURACY

ST 1487.4 SR 74.5 SS 2423.9
 CRT .9190 CRS .9545 CST .9946
 LSA 2841.7 MSA 133.9 SSA 4.7
 EL1 1488.9 EL2 29.3 ALF 2.64

LAUNCH DATE DEC 8 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 399.848

RL 147.35 LAL -.00 LOL 75.97 VL 27.646 GAL 4.59 AZL 86.44 HCA 171.22 SMA 127.97 ECC .17084 INC 3.5556 V1 30.237
 RP 108.53 LAP .54 LOP 247.21 VP 37.531 GAP -4.54 AZP 93.51 TAL 156.66 TAP 327.88 RCA 106.11 APO 149.83 V2 34.917
 RC 59.985 GL 25.04 GP -1.51 ZAL 52.93 ZAP 38.14 ETS 4.23 ZAE 162.16 ETE 344.13 ZAC 122.95 ETC 166.29 CLP -38.11

PLANETOCENTRIC CONIC

C3 16.308 VHL 4.038 DLA 33.76 RAL 15.19 RAD 6567.7 VEL 11.734 PTH 2.07 VHP 4.046 DPA 7.44 RAP 28.57 ECC 1.2684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.80 22 46 52 3949.73 -24.53 166.17 242.13 66.05 23 52 42 3349.7 -27.56 158.33
 109.20 3 40 6 3027.86 -24.52 97.49 242.13 66.04 4 30 34 2427.9 -27.54 89.66
 70.80 22 46 52 3949.73 -24.53 166.17 242.13 66.05 23 52 42 3349.7 -27.56 158.33
 109.20 3 40 6 3027.86 -24.52 97.49 242.13 66.04 4 30 34 2427.9 -27.54 89.66
 110.00 4 25 46 2888.33 -28.05 88.23 243.73 69.61 5 13 54 2288.3 -30.56 79.93
 110.00 3 4 19 3137.25 -21.11 104.21 240.34 62.47 3 56 36 2537.3 -24.62 96.83

DIFFERENTIAL CORRECTIONS

TDE -.9101 TRA-1.2242 TC3 .4051 BAU .0894
 RDE -.0237 RRA .0030 RC3 -.0638 FAU .09623
 FDE 4.9032 FRA 4.8971 FC3-5.1083 BSP 8412
 BDE .9104 BRA 1.2242 BC3 .4101 FSP -3017

MID-COURSE EXECUTION ACCURACY

SGT 2477.7 SGR 61.7 SG3 1004.8
 RRT .1045 RRF .0292 RTF -.9645
 SGB 2478.5 R23 .1308 R13 -.9645
 SG1 2477.8 SG2 61.4 THA .15

ORBIT DETERMINATION ACCURACY

ST 1435.4 SR 33.7 SS 2585.6
 CRT .8778 CRS .9227 CST .9943
 LSA 2954.5 MSA 134.1 SSA 3.3
 EL1 1435.7 EL2 16.1 ALF 1.18

LAUNCH DATE DEC 8 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 406.376

RL 147.35 LAL -.00 LOL 75.97 VL 27.680 GAL 4.49 AZL 86.35 HCA 174.41 SMA 128.20 ECC .16823 INC 3.6484 V1 30.237
 RP 108.57 LAP .36 LOP 250.39 VP 37.545 GAP -4.04 AZP 93.63 TAL 156.76 TAP 331.17 RCA 106.63 APO 149.76 V2 34.906
 RC 61.981 GL 25.99 GP -2.50 ZAL 53.43 ZAP 41.78 ETS 5.09 ZAE 163.02 ETE 341.08 ZAC 122.81 ETC 166.95 CLP -41.72

PLANETOCENTRIC CONIC

C3 16.062 VHL 4.008 DLA 34.55 RAL 14.51 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 3.829 DPA 6.37 RAP 28.56 ECC 1.2643
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.33 22 35 20 3973.21 -25.17 168.31 241.49 65.51 23 41 34 3373.2 -28.25 160.46
 110.67 3 46 15 2997.46 -25.16 95.43 241.48 65.50 4 36 13 2397.5 -28.24 87.58
 69.33 22 35 20 3973.21 -25.17 168.31 241.49 65.51 23 41 34 3373.2 -28.25 160.46
 110.67 3 46 15 2997.46 -25.16 95.43 241.48 65.50 4 36 13 2397.5 -28.24 87.58
 69.33 22 35 20 3973.21 -25.17 168.31 241.49 65.51 23 41 34 3373.2 -28.25 160.46
 110.67 3 46 15 2997.46 -25.16 95.43 241.48 65.50 4 36 13 2397.5 -28.24 87.58

DIFFERENTIAL CORRECTIONS

TDE -.8621 TRA-1.1331 TC3 .3737 BAU .0824
 RDE .0232 RRA .0297 RC3 -.0865 FAU .10573
 FDE 5.5321 FRA 5.2987 FC3-5.6988 BSP 8003
 BDE .8624 BRA 1.1335 BC3 .3836 FSP -3363

MID-COURSE EXECUTION ACCURACY

SGT 2340.1 SGR 92.5 SG3 1119.9
 RRT -.7527 RRF .8780 RTF -.9628
 SGB 2342.0 R23 -.2321 R13 .9630
 SG1 2341.2 SG2 60.9 THA 178.29

ORBIT DETERMINATION ACCURACY

ST 1366.4 SR 36.7 SS 2771.5
 CRT -.9987 CRS -.9942 CST .9938
 LSA 3087.2 MSA 136.2 SSA 1.8
 EL1 1366.9 EL2 1.9 ALF 178.47

LAUNCH DATE DEC 8 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 412.882

RL 147.35 LAL -.00 LOL 75.97 VL 27.709 GAL 4.40 AZL 86.01 HCA 177.59 SMA 128.40 ECC .16595 INC 3.9863 V1 30.237
 RP 108.60 LAP .17 LOP 253.57 VP 37.556 GAP -3.56 AZP 93.98 TAL 156.86 TAP 334.44 RCA 107.09 APO 149.71 V2 34.894
 RC 64.032 GL 28.34 GP -6.10 ZAL 54.51 ZAP 45.91 ETS 8.22 ZAE 162.88 ETE 329.33 ZAC 123.02 ETC 169.26 CLP -45.59

PLANETOCENTRIC CONIC

C3 16.361 VHL 4.045 DLA 36.57 RAL 13.01 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 3.643 DPA 2.78 RAP 29.33 ECC 1.2693
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.82 22 9 40 4036.38 -26.41 173.99 240.99 63.73 23 16 56 3436.4 -29.72 166.15
 114.18 3 59 56 2942.70 -26.40 91.73 240.99 63.72 4 48 59 2342.7 -29.71 83.89
 65.82 22 9 40 4036.38 -26.41 173.99 240.99 63.73 23 16 56 3436.4 -29.72 166.15
 114.18 3 59 56 2942.70 -26.40 91.73 240.99 63.72 4 48 59 2342.7 -29.71 83.89
 65.82 22 9 40 4036.38 -26.41 173.99 240.99 63.73 23 16 56 3436.4 -29.72 166.15
 114.18 3 59 56 2942.70 -26.40 91.73 240.99 63.72 4 48 59 2342.7 -29.71 83.89

DIFFERENTIAL CORRECTIONS

TDE -.8263 TRA-1.0234 TC3 .3196 BAU .0814
 RDE .1620 RRA .1282 RC3 -.1903 FAU .11539
 FDE 6.4323 FRA 5.5609 FC3-6.1055 BSP 7647
 BDE .8420 BRA 1.0314 BC3 .3720 FSP -3756

MID-COURSE EXECUTION ACCURACY

SGT 2166.8 SGR 357.0 SG3 1232.9
 RRT -.9262 RRF .9949 RTF -.9588
 SGB 2196.0 R23 -.2745 R13 .9614
 SG1 2192.0 SG2 133.1 THA 171.29

ORBIT DETERMINATION ACCURACY

ST 1289.7 SR 239.3 SS 3013.7
 CRT -.9893 CRS -.9997 CST .9927
 LSA 3283.7 MSA 144.0 SSA .6
 EL1 1311.2 EL2 34.3 ALF 169.59

LAUNCH DATE DEC 8 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 419.368

RL 147.35 LAL -.00 LOL 75.97 VL 27.735 GAL 4.33 AZL 88.46 HCA 180.77 SMA 128.57 ECC .16398 INC 1.4603 V1 30.237
 RP 108.64 LAP -.02 LOP 256.74 VP 37.565 GAP -3.09 AZP 91.54 TAL 156.93 TAP 337.70 RCA 107.49 APO 149.66 V2 34.883
 RC 66.131 GL 12.06 GP 19.53 ZAL 49.33 ZAP 52.35 ETS 346.43 ZAE 159.38 ETE 54.23 ZAC 113.48 ETC 156.31 CLP -49.60

PLANETOCENTRIC CONIC

C3 12.615 VHL 3.552 CLA 21.90 RAL 21.15 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 3.635 DPA 25.89 RAP 17.76 ECC 1.2076
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 48 2871.50 -28.32 87.05 242.49 90.19 5 13 39 2271.5 -27.99 78.40
 90.00 22 48 46 3992.52 -6.61 160.36 236.98 62.40 23 55 19 3392.5 -10.25 153.57
 100.00 6 2 36 2559.32 -29.82 64.05 242.46 92.15 6 45 16 1959.3 -29.20 55.30
 100.00 23 54 38 3779.92 -5.29 144.01 236.26 60.54 24 57 38 3179.9 -9.17 137.38
 110.00 7 43 5 2244.98 -33.52 39.82 242.10 97.13 8 20 30 1645.0 -32.17 30.85
 110.00 0 34 35 3667.03 -2.13 133.49 234.30 55.88 1 35 42 3067.0 -6.60 127.25

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5643 TRA -1.0377 TC3 .0808 BAU .1089 SGT 2021.7 SGR 1609.2 SG3 1320.4 ST 1059.1 SR 871.4 SS 2636.9
 RDE -.4797 RRA -.7682 RC3 .6406 FAU .09069 RRT .9652 RRF -.9999 RTF -.9626 CRT .9982 CRS .9999 CST .9974
 FDE 4.6511 FRA 7.2230 FC3 -6.2240 BSP 5765 SGB 2584.0 R23 -.1712 R13 -.9852 LSA 2971.4 MSA 71.2 SSA 1.9
 BOE .7406 BRA 1.2911 BC3 .6456 FSP -2479 SG1 2562.6 SG2 331.9 THA 38.29 EL1 1370.9 EL2 40.6 ALF 39.44

LAUNCH DATE DEC 8 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 425.830

RL 147.35 LAL -.00 LOL 75.97 VL 27.737 GAL 4.27 AZL 86.97 HCA 183.95 SMA 128.73 ECC .16230 INC 3.0329 V1 30.237
 RP 108.67 LAP -.21 LOP 259.91 VP 37.571 GAP -2.63 AZP 93.03 TAL 156.97 TAP 340.92 RCA 107.84 APO 149.62 V2 34.873
 RC 68.274 GL 22.95 GP 4.14 ZAL 52.49 ZAP 54.39 ETS 359.17 ZAE 169.87 ETE 10.41 ZAC 117.98 ETC 163.64 CLP -54.28

PLANETOCENTRIC CONIC

C3 14.113 VHL 3.757 CLA 31.74 RAL 15.92 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 3.283 DPA 11.28 RAP 23.10 ECC 1.2323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.02 23 17 9 3832.54 -23.97 156.92 239.99 68.55 24 21 2 3232.5 -26.67 149.00
 104.98 3 15 41 3080.18 -23.96 101.24 239.98 68.53 4 7 1 2480.2 -26.66 93.33
 75.02 23 17 9 3832.54 -23.97 156.92 239.99 68.55 24 21 2 3232.5 -26.67 149.00
 104.98 3 15 41 3080.18 -23.96 101.24 239.98 68.53 4 7 1 2480.2 -26.66 93.33
 110.00 5 25 11 2678.59 -32.11 73.26 242.79 77.59 6 9 50 2078.6 -33.48 64.30
 110.00 2 10 45 3282.13 -16.32 112.71 236.02 59.54 3 5 27 2682.1 -20.24 105.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5166 TRA -.8094 TC3 .1751 BAU .0478 SGT 1656.8 SGR 384.1 SG3 1508.6 ST 900.2 SR 206.2 SS 3046.1
 RDE -.1208 RRA -.1716 RC3 .1828 FAU .14103 RRT .9585 RRF -.9928 RTF -.9413 CRT .9991 CRS .9949 CST .9899
 FDE 6.5798 FRA 7.0952 FC3 -8.6511 BSP 6114 SGB 1700.7 R23 -.3041 R13 -.9457 LSA 3180.6 MSA 123.7 SSA 2.4
 BDE .5305 BRA .8274 BC3 .2531 FSP -4593 SG1 1697.4 SG2 106.9 THA 12.58 EL1 923.5 EL2 8.7 ALF 12.89

LAUNCH DATE DEC 8 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 432.272

RL 147.35 LAL -.00 LOL 75.97 VL 27.776 GAL 4.22 AZL 86.81 HCA 187.12 SMA 128.86 ECC .16091 INC 3.1941 V1 30.237
 RP 108.70 LAP -.40 LOP 263.09 VP 37.576 GAP -2.18 AZP 93.17 TAL 156.99 TAP 344.11 RCA 108.12 APO 149.59 V2 34.862
 RC 70.456 GL 24.21 GP 2.41 ZAL 52.98 ZAP 59.11 ETS .63 ZAE 172.71 ETE 2.64 ZAC 116.97 ETC 164.77 CLP -59.08

PLANETOCENTRIC CONIC

C3 14.172 VHL 3.765 CLA 32.86 RAL 15.22 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 3.134 DPA 9.04 RAP 22.30 ECC 1.2332
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.59 22 58 12 3883.69 -24.75 161.16 239.70 67.66 24 2 56 3283.7 -27.56 153.23
 107.41 3 29 0 3030.88 -24.74 97.82 239.69 67.65 4 19 31 2430.9 -27.55 89.89
 72.59 22 58 12 3883.69 -24.75 161.16 239.70 67.66 24 2 56 3283.7 -27.56 153.23
 107.41 3 29 0 3030.88 -24.74 97.82 239.69 67.65 4 19 31 2430.9 -27.55 89.89
 110.00 4 56 58 2760.29 -30.75 79.25 242.04 74.29 5 42 58 2160.3 -32.60 70.51
 110.00 2 33 22 3202.27 -19.01 108.09 236.73 61.04 3 26 44 2602.3 -22.72 100.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4049 TRA -.6678 TC3 .0335 BAU .0244 SGT 1358.1 SGR 248.5 SG3 1653.0 ST 715.2 SR 109.3 SS 3257.4
 RDE -.0583 RRA -.1172 RC3 .1243 FAU .15198 RRT .9306 RRF -.9636 RTF -.9158 CRT .9956 CRS .9632 CST .9834
 FDE 7.4227 FRA 7.5982 FC3 -9.2842 BSP 5059 SGB 1380.6 R23 -.2939 R13 -.9192 LSA 3334.2 MSA 130.0 SSA 3.5
 BOE .4091 BRA .6780 BC3 .1287 FSP -5009 SG1 1377.7 SG2 89.6 THA 9.70 EL1 723.4 EL2 10.1 ALF 8.65

LAUNCH DATE DEC 8 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 438.691

RL 147.35 LAL -.00 LOL 75.97 VL 27.792 GAL 4.19 AZL 86.74 HCA 190.30 SMA 128.97 ECC .15978 INC 3.2569 V1 30.237
 RP 108.73 LAP -.58 LOP 266.25 VP 37.579 GAP -1.74 AZP 93.20 TAL 156.98 TAP 347.28 RCA 108.36 APO 149.58 V2 34.853
 RC 72.672 GL 24.77 GP 1.74 ZAL 53.18 ZAP 64.18 ETS 1.14 ZAE 175.81 ETE 358.08 ZAC 115.34 ETC 165.34 CLP -64.17

PLANETOCENTRIC CONIC

C3 14.125 VHL 3.758 CLA 33.36 RAL 14.92 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 3.011 DPA 7.66 RAP 20.80 ECC 1.2325
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.57 22 50 34 3902.87 -25.13 162.81 239.52 67.29 23 55 37 3302.9 -27.98 154.87
 108.43 3 34 17 3010.23 -25.12 96.40 239.51 67.28 4 24 27 2410.2 -27.97 88.46
 71.57 22 50 34 3902.87 -25.13 162.81 239.52 67.29 23 55 37 3302.9 -27.98 154.87
 108.43 3 34 17 3010.23 -25.12 96.40 239.51 67.28 4 24 27 2410.2 -27.97 88.46
 110.00 4 40 32 2807.18 -29.84 82.59 241.46 72.50 5 27 19 2207.2 -31.94 74.01
 110.00 2 47 26 3153.91 -20.58 105.22 237.18 62.08 3 40 0 2553.9 -24.15 97.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2598 TRA -.5112 TC3 -.1238 BAU .0310 SGT 1018.0 SGR 194.8 SG3 1781.3 ST 485.1 SR 62.4 SS 3398.0
 RDE -.0224 RRA -.0953 RC3 .1077 FAU .16403 RRT .8483 RRF -.8943 RTF -.8532 CRT .9292 CRS .7983 CST .9635
 FDE 8.0627 FRA 8.0674 FC -10.0536 BSP 3966 SGB 1036.5 R23 -.3082 R13 -.8583 LSA 3430.4 MSA 133.9 SSA 4.5
 BOE .2608 BRA .5200 BC3 .1641 FSP -5478 SG1 1031.4 SG2 101.8 THA 9.31 EL1 488.5 EL2 22.9 ALF 6.83

LAUNCH DATE DEC 8 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 445.089

RL 147.35 LAL -.00 LOL 75.97 VL 27.805 GAL 4.17 AZL 86.71 HCA 193.47 SMA 129.06 ECC .15892 INC 3.2901 V1 30.237
 RP 108.76 LAP -.77 LOP 269.42 VP 37.580 GAP -1.31 AZP 93.20 TAL 156.93 TAP 350.40 RCA 108.55 APO 149.57 V2 34.844
 RC 74.919 GL 25.10 GP 1.39 ZAL 53.26 ZAP 69.52 ETS 1.36 ZAE 179.19 ETE 335.87 ZAC 113.35 ETC 165.72 CLP -69.52

PLANETOCENTRIC CONIC

C3 14.076 VHL 3.752 DLA 33.68 RAL 14.79 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 2.911 DPA 6.46 RAP 18.95 ECC 1.2317
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.96 22 46 16 3913.72 -25.37 163.77 239.44 67.07 23 51 30 3313.7 -28.25 155.82
 109.04 3 37 33 2997.86 -25.36 95.56 239.43 67.06 4 27 31 2397.9 -28.24 87.61
 70.96 22 46 16 3913.72 -25.37 163.77 239.44 67.07 23 51 30 3313.7 -28.25 155.82
 109.04 3 37 33 2997.86 -25.36 95.56 239.43 67.06 4 27 31 2397.9 -28.24 87.61
 110.00 4 27 59 2843.61 -29.07 85.15 241.02 71.17 5 15 23 2243.6 -31.36 76.69
 110.00 2 58 56 3115.96 -21.77 102.92 237.61 62.97 3 50 52 2516.0 -25.22 95.46

DIFFERENTIAL CORRECTIONS

TDE -.0935 TRA -.3421 TC3 -.3116 BAU .0617
 RDE .0050 RRA -.0828 RC3 .1018 FAU .17445
 FDE 8.6034 FRA 8.5028 FC-10.7291 BSP 2704
 BDE .0937 BRA .3520 BC3 .3278 FSP -5893

MID-COURSE EXECUTION ACCURACY

SGT 684.9 SGR 170.3 SG3 1894.7
 RRT .6558 RRF -.7732 RTF -.6518
 SGB 705.8 R23 -.4377 R13 -.6656
 SG1 694.3 SG2 126.8 THA 9.58

ORBIT DETERMINATION ACCURACY

ST 236.5 SR 46.3 SS 3508.8
 CRT .6843 CRS .1773 CST .8357
 LSA 3514.4 MSA 137.3 SSA 5.4
 EL1 238.6 EL2 33.4 ALF 7.78

LAUNCH DATE DEC 8 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 451.465

RL 147.35 LAL -.00 LOL 75.97 VL 27.815 GAL 4.17 AZL 86.69 HCA 196.64 SMA 129.13 ECC .15832 INC 3.3110 V1 30.237
 RP 108.78 LAP -.95 LOP 272.59 VP 37.579 GAP -.89 AZP 93.17 TAL 156.85 TAP 353.49 RCA 108.69 APO 149.58 V2 34.835
 RC 77.194 GL 25.30 GP 1.16 ZAL 53.26 ZAP 75.08 ETS 1.45 ZAE 176.98 ETE 187.78 ZAC 111.12 ETC 166.01 CLP -75.07

PLANETOCENTRIC CONIC

C3 14.051 VHL 3.749 DLA 33.89 RAL 14.77 RAD 6567.6 VEL 11.638 PTH 2.04 VHP 2.836 DPA 5.27 RAP 16.85 ECC 1.2312
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.55 22 43 38 3921.16 -25.53 164.42 239.46 66.92 23 49 0 3321.2 -28.43 156.47
 109.45 3 40 2 2989.64 -25.52 95.00 239.46 66.90 4 29 52 2389.6 -28.42 87.04
 70.55 22 43 38 3921.16 -25.53 164.42 239.46 66.92 23 49 0 3321.2 -28.43 156.47
 109.45 3 40 2 2989.64 -25.52 95.00 239.46 66.90 4 29 52 2389.6 -28.42 87.04
 110.00 4 17 4 2876.56 -28.32 87.42 240.70 70.01 5 5 1 2276.6 -30.78 79.08
 110.00 3 9 43 3082.23 -22.80 100.84 238.09 63.81 4 1 5 2482.2 -26.13 93.26

DIFFERENTIAL CORRECTIONS

TDE .0902 TRA -.1608 TC3 -.5239 BAU .1002
 RDE .0284 RRA -.0744 RC3 .1003 FAU .18323
 FDE 9.0142 FRA 8.8528 FC-11.2895 BSP 1309
 BDE .0945 BRA .1772 BC3 .5335 FSP -6257

MID-COURSE EXECUTION ACCURACY

SGT 510.8 SGR 162.2 SG3 1983.8
 RRT .2054 RRF -.6103 RTF .0338
 SGB 536.0 R23 -.6312 R13 .0197
 SG1 512.0 SG2 158.4 THA 4.13

ORBIT DETERMINATION ACCURACY

ST 164.4 SR 59.8 SS 3583.3
 CRT .9768 CRS -.4526 CST -.6104
 LSA 3584.8 MSA 140.5 SSA 6.3
 EL1 174.5 EL2 12.1 ALF 19.65

LAUNCH DATE DEC 8 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 457.819

RL 147.35 LAL -.00 LOL 75.97 VL 27.823 GAL 4.17 AZL 86.67 HCA 199.81 SMA 129.19 ECC .15795 INC 3.3250 V1 30.237
 RP 108.81 LAP -.113 LOP 275.75 VP 37.578 GAP -.47 AZP 93.13 TAL 156.73 TAP 356.53 RCA 108.78 APO 149.59 V2 34.827
 RC 79.493 GL 25.42 GP 1.00 ZAL 53.19 ZAP 80.78 ETS 1.46 ZAE 173.04 ETE 183.51 ZAC 108.72 ETC 166.23 CLP -80.78

PLANETOCENTRIC CONIC

C3 14.059 VHL 3.749 DLA 34.05 RAL 14.85 RAD 6567.6 VEL 11.638 PTH 2.04 VHP 2.786 DPA 4.09 RAP 14.60 ECC 1.2314
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.25 22 42 9 3926.77 -25.64 164.91 239.60 66.79 23 47 35 3326.8 -28.56 156.96
 109.75 3 42 8 2984.26 -25.63 94.63 239.60 66.78 4 31 52 2384.3 -28.55 86.67
 70.25 22 42 9 3926.77 -25.64 164.91 239.60 66.79 23 47 35 3326.8 -28.56 156.96
 109.75 3 42 8 2984.26 -25.63 94.63 239.60 66.78 4 31 52 2384.3 -28.55 86.67
 110.00 4 6 25 2910.23 -27.52 89.71 240.45 68.87 4 54 55 2310.2 -30.13 81.49
 110.00 3 20 58 3048.80 -23.79 98.75 238.68 64.70 4 11 47 2448.8 -26.99 91.05

DIFFERENTIAL CORRECTIONS

TDE .2870 TRA .0304 TC3 -.7563 BAU .1434
 RDE .0492 RRA -.0684 RC3 .1009 FAU .18904
 FDE 9.2850 FRA 9.1062 FC-11.6408 BSP 399
 BDE .2912 BRA .0748 BC3 .7630 FSP -6514

MID-COURSE EXECUTION ACCURACY

SGT 719.2 SGR 165.2 SG3 2043.8
 RRT -.1433 RRF -.4381 RTF .7122
 SGB 737.9 R23 .3340 R13 -.7148
 SG1 719.6 SG2 163.4 THA 178.01

ORBIT DETERMINATION ACCURACY

ST 439.3 SR 84.2 SS 3624.8
 CRT .8734 CRS -.6905 CST -.9543
 LSA 3649.5 MSA 143.7 SSA 7.1
 EL1 445.4 EL2 40.4 ALF 9.58

LAUNCH DATE DEC 8 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 464.152

RL 147.35 LAL -.00 LOL 75.97 VL 27.828 GAL 4.20 AZL 86.66 HCA 202.98 SMA 129.23 ECC .15782 INC 3.3354 V1 30.237
 RP 108.83 LAP -.130 LOP 278.92 VP 37.575 GAP -.06 AZP 93.07 TAL 156.58 TAP 359.56 RCA 108.83 APO 149.62 V2 34.820
 RC 81.813 GL 25.47 GP .88 ZAL 53.05 ZAP 86.55 ETS 1.44 ZAE 168.96 ETE 182.11 ZAC 106.24 ETC 166.39 CLP -86.55

PLANETOCENTRIC CONIC

C3 14.102 VHL 3.755 DLA 34.17 RAL 15.01 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 2.761 DPA 2.91 RAP 12.27 ECC 1.2321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.03 22 41 30 3931.36 -25.71 165.30 239.85 66.68 23 47 1 3331.4 -28.63 157.35
 109.97 3 44 3 2981.03 -25.69 94.40 239.84 66.67 4 33 44 2381.0 -28.62 86.45
 70.03 22 41 30 3931.36 -25.71 165.30 239.85 66.68 23 47 1 3331.4 -28.63 157.35
 109.97 3 44 3 2981.03 -25.69 94.40 239.84 66.67 4 33 44 2381.0 -28.62 86.45
 110.00 3 52 27 2955.43 -26.37 92.72 240.16 67.42 4 41 43 2355.4 -29.19 84.68
 110.00 3 36 12 3004.95 -25.04 95.95 239.52 65.93 4 26 17 2405.0 -28.07 88.09

DIFFERENTIAL CORRECTIONS

TDE .4914 TRA .2281 TC3 -1.0017 BAU .1898
 RDE .0680 RRA -.0640 RC3 .1031 FAU .19205
 FDE 9.3839 FRA 9.2239 FC-11.7901 BSP 1915
 BDE .4961 BRA .2370 BC3 1.0070 FSP -6683

MID-COURSE EXECUTION ACCURACY

SGT 1142.4 SGR 175.2 SG3 2067.6
 RRT -.1503 RRF -.2879 RTF .8981
 SGB 1155.8 R23 .1515 R13 -.8986
 SG1 1142.8 SG2 173.2 THA 178.65

ORBIT DETERMINATION ACCURACY

ST 760.7 SR 109.7 SS 3626.1
 CRT .8785 CRS -.7825 CST -.9846
 LSA 3703.7 MSA 146.7 SSA 7.7
 EL1 766.8 EL2 52.0 ALF 7.25

LAUNCH DATE DEC 8 1968

FLIGHT TIME 174.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

RL 147.35 LAL -.00 LOL 75.97 VL 27.832 GAL 4.23 AZL 86.66 MCA 206.15 SMA 129.25 ECC .15792 INC 3.3435 VI 30.237
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.571 GAP .34 AZP 93.00 TAL 156.38 TAP 2.53 RCA 108.84 APO 149.66 V2 34.813
 RC 84.153 GL 25.46 GP .78 ZAL 52.84 ZAP 92.30 ETS 1.38 ZAE 164.84 ETE 181.34 ZAC 103.77 ETC 166.50 CLP -92.30

PLANETOCENTRIC CONIC

C3 14.184 VHL 3.766 DLA 34.25 RAL 15.25 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 2.760 DPA 1.75 RAP 9.96 ECC 1.2334
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.88 22 41 33 3935.41 -25.73 165.63 240.20 66.58 23 47 8 3335.4 -28.67 157.68
 110.12 3 45 56 2979.53 -25.72 94.30 240.20 66.56 4 35 35 2379.5 -28.66 86.35
 69.88 22 41 33 3935.41 -25.73 165.63 240.20 66.58 23 47 8 3335.4 -28.67 157.68
 110.12 3 45 56 2979.53 -25.72 94.30 240.20 66.56 4 35 35 2379.5 -28.66 86.35
 69.88 22 41 33 3935.41 -25.73 165.63 240.20 66.58 23 47 8 3335.4 -28.67 157.68
 110.12 3 45 56 2979.53 -25.72 94.30 240.20 66.56 4 35 35 2379.5 -28.66 86.35

DIFFERENTIAL CORRECTIONS

TDE .6981 TRA .4292 TC3-1.2517 BAU .2382
 RDE .0851 RRA -.0611 RC3 .1064 FAU .19131
 FDE 9.3254 FRA 9.2201 FC-11.6769 BSP 3586
 BOE .7033 BRA .4336 BC3 1.2562 FSP -6713

MID-COURSE EXECUTION ACCURACY

SGT 1625.1 SGR 189.3 SG3 2056.6
 RRT -.0878 RRF -.1727 RTF .9504
 SGB 1636.1 R23 .0885 R13 -.9505
 SG1 1625.2 SG2 188.6 THA 179.41

ORBIT DETERMINATION ACCURACY

ST 1088.6 SR 133.8 SS 3595.1
 CRT .8885 CRS -.8250 CST -.9922
 LSA 3755.7 MSA 149.8 SSA 8.3
 EL1 1095.1 EL2 61.0 ALF 6.25

LAUNCH DATE DEC 8 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

RL 147.35 LAL -.00 LOL 75.97 VL 27.833 GAL 4.28 AZL 86.65 MCA 209.31 SMA 129.26 ECC .15824 INC 3.3498 VI 30.237
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.567 GAP .74 AZP 92.92 TAL 156.14 TAP 5.46 RCA 108.81 APO 149.71 V2 34.807
 RC 86.508 GL 25.39 GP .70 ZAL 52.58 ZAP 97.94 ETS 1.31 ZAE 160.78 ETE 180.83 ZAC 101.40 ETC 166.55 CLP -97.94

PLANETOCENTRIC CONIC

C3 14.306 VHL 3.782 DLA 34.30 RAL 15.57 RAD 6567.6 VEL 11.649 PTH 2.04 VHP 2.783 DPA .65 RAP 7.74 ECC 1.2354
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.79 22 42 14 3939.03 -25.72 165.91 240.67 66.48 23 47 53 3339.0 -28.67 157.96
 110.21 3 47 46 2979.67 -25.70 94.30 240.66 66.47 4 37 25 2379.7 -28.66 86.36
 69.79 22 42 14 3939.03 -25.72 165.91 240.67 66.48 23 47 53 3339.0 -28.67 157.96
 110.21 3 47 46 2979.67 -25.70 94.30 240.66 66.47 4 37 25 2379.7 -28.66 86.36
 69.79 22 42 14 3939.03 -25.72 165.91 240.67 66.48 23 47 53 3339.0 -28.67 157.96
 110.21 3 47 46 2979.67 -25.70 94.30 240.66 66.47 4 37 25 2379.7 -28.66 86.36

DIFFERENTIAL CORRECTIONS

TDE .9020 TRA .6305 TC3-1.4959 BAU .2869
 RDE .1006 RRA -.0595 RC3 .1108 FAU .18778
 FDE 9.1011 FRA 9.0806 FC-11.3637 BSP 5255
 BOE .9076 BRA .6333 BC3 1.5000 FSP -6655

MID-COURSE EXECUTION ACCURACY

SGT 2117.5 SGR 205.3 SG3 2010.0
 RRT -.0296 RRF -.0916 RTF .9706
 SGB 2127.5 R23 .0626 R13 -.9706
 SG1 2117.6 SG2 205.2 THA 179.83

ORBIT DETERMINATION ACCURACY

ST 1410.1 SR 155.8 SS 3527.1
 CRT .8952 CRS -.8471 CST -.9951
 LSA 3798.7 MSA 152.7 SSA 8.8
 EL1 1417.0 EL2 69.1 ALF 5.66

LAUNCH DATE DEC 8 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

RL 147.35 LAL -.00 LOL 75.97 VL 27.832 GAL 4.34 AZL 86.64 MCA 212.48 SMA 129.25 ECC .15878 INC 3.3551 VI 30.237
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.561 GAP 1.14 AZP 92.83 TAL 155.87 TAP 8.34 RCA 108.73 APO 149.78 V2 34.802
 RC 88.877 GL 25.28 GP .62 ZAL 52.25 ZAP 103.41 ETS 1.23 ZAE 156.84 ETE 180.45 ZAC 99.19 ETC 166.57 CLP -103.41

PLANETOCENTRIC CONIC

C3 14.468 VHL 3.804 DLA 34.32 RAL 15.96 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.829 DPA -.37 RAP 5.67 ECC 1.2381
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.74 22 43 30 3942.44 -25.66 166.15 241.24 66.38 23 49 13 3342.4 -28.63 158.21
 110.26 3 49 38 2981.27 -25.65 94.40 241.24 66.37 4 39 19 2381.3 -28.62 86.47
 69.74 22 43 30 3942.44 -25.66 166.15 241.24 66.38 23 49 13 3342.4 -28.63 158.21
 110.26 3 49 38 2981.27 -25.65 94.40 241.24 66.37 4 39 19 2381.3 -28.62 86.47
 69.74 22 43 30 3942.44 -25.66 166.15 241.24 66.38 23 49 13 3342.4 -28.63 158.21
 110.26 3 49 38 2981.27 -25.65 94.40 241.24 66.37 4 39 19 2381.3 -28.62 86.47

DIFFERENTIAL CORRECTIONS

TDE 1.0981 TRA .8285 TC3-1.7284 BAU .3351
 RDE .1147 RRA -.0590 RC3 .1160 FAU .18162
 FDE 8.7496 FRA 8.8333 FC-10.8679 BSP 6896
 BOE 1.1040 BRA .8306 BC3 1.7323 FSP -6496

MID-COURSE EXECUTION ACCURACY

SGT 2597.8 SGR 221.9 SG3 1935.1
 RRT .0124 RRF -.0375 RTF .9800
 SGB 2607.2 R23 -.0497 R13 .9800
 SG1 2597.8 SG2 221.8 THA .06

ORBIT DETERMINATION ACCURACY

ST 1715.5 SR 175.8 SS 3432.3
 CRT .8988 CRS -.8591 CST -.9965
 LSA 3838.0 MSA 155.6 SSA 9.2
 EL1 1722.8 EL2 76.7 ALF 5.27

LAUNCH DATE DEC 8 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

RL 147.35 LAL -.00 LOL 75.97 VL 27.830 GAL 4.42 AZL 86.64 MCA 215.64 SMA 129.24 ECC .15953 INC 3.3595 VI 30.237
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.555 GAP 1.53 AZP 92.73 TAL 155.55 TAP 11.19 RCA 108.62 APO 149.85 V2 34.797
 RC 91.256 GL 25.12 GP .56 ZAL 51.87 ZAP 108.63 ETS 1.16 ZAE 153.09 ETE 180.14 ZAC 97.21 ETC 166.55 CLP -108.63

PLANETOCENTRIC CONIC

C3 14.674 VHL 3.831 DLA 34.33 RAL 16.42 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 2.897 DPA -1.28 RAP 3.82 ECC 1.2415
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.73 22 45 22 3945.59 -25.58 166.35 241.93 66.29 23 51 7 3345.6 -28.56 158.43
 110.27 3 51 29 2984.39 -25.57 94.61 241.92 66.28 4 41 14 2384.4 -28.55 86.68
 69.73 22 45 22 3945.59 -25.58 166.35 241.93 66.29 23 51 7 3345.6 -28.56 158.43
 110.27 3 51 29 2984.39 -25.57 94.61 241.92 66.28 4 41 14 2384.4 -28.55 86.68
 69.73 22 45 22 3945.59 -25.58 166.35 241.93 66.29 23 51 7 3345.6 -28.56 158.43
 110.27 3 51 29 2984.39 -25.57 94.61 241.92 66.28 4 41 14 2384.4 -28.55 86.68

DIFFERENTIAL CORRECTIONS

TDE 1.2834 TRA 1.0218 TC3-1.9419 BAU .3817
 RDE .1278 RRA -.0595 RC3 .1215 FAU .17310
 FDE 8.3036 FRA 8.5039 FC-10.2129 BSP 8474
 BOE 1.2898 BRA 1.0235 BC3 1.9457 FSP -6256

MID-COURSE EXECUTION ACCURACY

SGT 3053.4 SGR 238.3 SG3 1838.3
 RRT .0400 RRF -.0026 RTF .9849
 SGB 3062.7 R23 -.0423 R13 .9849
 SG1 3053.4 SG2 238.1 THA .18

ORBIT DETERMINATION ACCURACY

ST 1998.8 SR 193.9 SS 3317.0
 CRT .9003 CRS -.8655 CST -.9972
 LSA 3874.3 MSA 158.3 SSA 9.5
 EL1 2006.4 EL2 84.1 ALF 5.00

LAUNCH DATE DEC 8 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 495.494

RL 147.35 LAL -.00 LOL 75.97 VL 27.826 GAL 4.51 AZL 86.64 MCA 218.80 SMA 129.21 ECC .16050 INC 3.3632 V1 30.237
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.548 GAP 1.92 AZP 92.62 TAL 155.19 TAP 13.99 RCA 108.47 APO 149.95 V2 34.793
 RC 93.644 GL 24.91 GP .51 ZAL 51.43 ZAP 113.57 ETS 1.09 ZAE 149.59 ETE 179.88 ZAC 95.50 ETC 166.52 CLP-113.57

PLANETOCENTRIC CONIC

C3 14.924 VHL 3.863 DLA 34.31 RAL 16.96 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 2.983 DPA -2.06 RAP 2.22 ECC 1.2456
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.77 22 47 42 3948.71 -25.47 166.54 242.72 66.19 23 53 31 3348.7 -28.46 158.63
 110.23 3 53 25 2988.80 -25.45 94.90 242.71 66.18 4 43 13 2388.8 -28.45 86.99
 69.77 22 47 42 3948.71 -25.47 166.54 242.72 66.19 23 53 31 3348.7 -28.46 158.63
 110.23 3 53 25 2988.80 -25.45 94.90 242.71 66.18 4 43 13 2388.8 -28.45 86.99
 69.77 22 47 42 3948.71 -25.47 166.54 242.72 66.19 23 53 31 3348.7 -28.46 158.63
 110.23 3 53 25 2988.80 -25.45 94.90 242.71 66.18 4 43 13 2388.8 -28.45 86.99

DIFFERENTIAL CORRECTIONS

TDE 1.4564 TRA 1.2096 TC3-2.1314 BAU .4260
 RDE .1402 RRA -.0607 RC3 .1271 FAU .16284
 FDE 7.8021 FRA 8.1238 FC3-9.4463 BSP 9957
 BDE 1.4631 BRA 1.2111 BC3 2.1352 FSP -5947

MID-COURSE EXECUTION ACCURACY

SGT 3477.8 SGR 254.4 SG3 1727.9
 RRT .0574 RRF .0197 RTF .9877
 SGB 3487.1 R23 -.0374 R13 .9877
 SG1 3477.8 SG2 254.0 THA .24

ORBIT DETERMINATION ACCURACY

ST 2256.7 SR 210.5 SS 3189.3
 CRT .9003 CRS -.8686 CST -.9976
 LSA 3909.3 MSA 160.9 SSA 9.9
 EL1 2264.7 EL2 91.3 ALF 4.81

LAUNCH DATE DEC 8 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 501.698

RL 147.35 LAL -.00 LOL 75.97 VL 27.820 GAL 4.61 AZL 86.63 MCA 221.97 SMA 129.17 ECC .16169 INC 3.3665 V1 30.237
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.541 GAP 2.31 AZP 92.50 TAL 154.79 TAP 16.75 RCA 108.28 APO 150.05 V2 34.789
 RC 96.038 GL 24.67 GP .46 ZAL 50.93 ZAP 118.21 ETS 1.03 ZAE 146.34 ETE 179.66 ZAC 94.08 ETC 166.49 CLP-118.21

PLANETOCENTRIC CONIC

C3 15.221 VHL 3.901 DLA 34.27 RAL 17.56 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 3.088 DPA -2.71 RAP .90 ECC 1.2505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.84 22 50 31 3951.87 -25.32 166.71 243.61 66.09 23 56 23 3351.9 -28.32 158.82
 110.16 3 55 24 2994.47 -25.31 95.27 243.60 66.08 4 45 19 2394.5 -28.31 87.38
 69.84 22 50 31 3951.87 -25.32 166.71 243.61 66.09 23 56 23 3351.9 -28.32 158.82
 110.16 3 55 24 2994.47 -25.31 95.27 243.60 66.08 4 45 19 2394.5 -28.31 87.38
 69.84 22 50 31 3951.87 -25.32 166.71 243.61 66.09 23 56 23 3351.9 -28.32 158.82
 110.16 3 55 24 2994.47 -25.31 95.27 243.60 66.08 4 45 19 2394.5 -28.31 87.38

DIFFERENTIAL CORRECTIONS

TDE 1.6176 TRA 1.3933 TC3-2.2908 BAU .4669
 RDE .1521 RRA -.0623 RC3 .1323 FAU .15113
 FDE 7.2821 FRA 7.7236 FC3-8.5962 BSP 11307
 BDE 1.6247 BRA 1.3947 BC3 2.2946 FSP -5577

MID-COURSE EXECUTION ACCURACY

SGT 3868.9 SGR 269.9 SG3 1611.2
 RRT .0688 RRF .0349 RTF .9893
 SGB 3878.4 R23 -.0335 R13 .9893
 SG1 3869.0 SG2 269.3 THA .28

ORBIT DETERMINATION ACCURACY

ST 2489.6 SR 225.9 SS 3057.7
 CRT .8995 CRS -.8697 CST -.9979
 LSA 3946.1 MSA 163.5 SSA 10.3
 EL1 2497.9 EL2 98.3 ALF 4.67

LAUNCH DATE DEC 8 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 507.879

RL 147.35 LAL -.00 LOL 75.97 VL 27.813 GAL 4.73 AZL 86.63 MCA 225.13 SMA 129.12 ECC .16308 INC 3.3694 V1 30.237
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.533 GAP 2.70 AZP 92.38 TAL 154.35 TAP 19.48 RCA 108.06 APO 150.18 V2 34.787
 RC 98.436 GL 24.39 GP .42 ZAL 50.38 ZAP 122.54 ETS .98 ZAE 143.38 ETE 179.47 ZAC 92.97 ETC 166.45 CLP-122.54

PLANETOCENTRIC CONIC

C3 15.567 VHL 3.946 DLA 34.21 RAL 18.23 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 3.208 DPA -3.22 RAP 359.85 ECC 1.2562
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.95 22 53 52 3954.86 -25.14 166.86 244.60 65.99 23 59 47 3354.9 -28.16 158.99
 110.05 3 57 23 3001.62 -25.12 95.74 244.60 65.98 4 47 24 2401.6 -28.15 87.86
 69.95 22 53 52 3954.86 -25.14 166.86 244.60 65.99 23 59 47 3354.9 -28.16 158.99
 110.05 3 57 23 3001.62 -25.12 95.74 244.60 65.98 4 47 24 2401.6 -28.15 87.86
 69.95 22 53 52 3954.86 -25.14 166.86 244.60 65.99 23 59 47 3354.9 -28.16 158.99
 110.05 3 57 23 3001.62 -25.12 95.74 244.60 65.98 4 47 24 2401.6 -28.15 87.86

DIFFERENTIAL CORRECTIONS

TDE 1.7642 TRA 1.5706 TC3-2.4250 BAU .5055
 RDE .1640 RRA -.0643 RC3 .1369 FAU .13953
 FDE 6.7482 FRA 7.3051 FC3-7.7593 BSP 12572
 BDE 1.7718 BRA 1.5719 BC3 2.4289 FSP -5212

MID-COURSE EXECUTION ACCURACY

SGT 4222.7 SGR 284.8 SG3 1491.6
 RRT .0764 RRF .0454 RTF .9903
 SGB 4232.3 R23 -.0307 R13 .9903
 SG1 4222.8 SG2 283.9 THA .30

ORBIT DETERMINATION ACCURACY

ST 2692.8 SR 240.5 SS 2918.7
 CRT .8983 CRS -.8696 CST -.9981
 LSA 3975.0 MSA 166.1 SSA 10.6
 EL1 2701.5 EL2 105.4 ALF 4.59

LAUNCH DATE DEC 8 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 514.039

RL 147.35 LAL -.00 LOL 75.97 VL 27.804 GAL 4.87 AZL 86.63 MCA 228.29 SMA 129.06 ECC .16470 INC 3.3720 V1 30.237
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.525 GAP 3.09 AZP 92.25 TAL 153.87 TAP 22.16 RCA 107.80 APO 150.31 V2 34.785
 RC 100.837 GL 24.07 GP .38 ZAL 49.79 ZAP 126.55 ETS .95 ZAE 140.68 ETE 179.30 ZAC 92.15 ETC 166.42 CLP-126.55

PLANETOCENTRIC CONIC

C3 15.967 VHL 3.996 DLA 34.13 RAL 18.95 RAD 6567.6 VEL 11.720 PTH 2.06 VHP 3.343 DPA -3.61 RAP 359.08 ECC 1.2628
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.10 22 57 38 3957.97 -24.92 167.00 245.70 65.89 24 3 36 3358.0 -27.96 159.15
 109.90 3 59 25 3009.99 -24.91 96.28 245.69 65.88 4 49 35 2410.0 -27.95 88.44
 70.10 22 57 38 3957.97 -24.92 167.00 245.70 65.89 24 3 36 3358.0 -27.96 159.15
 109.90 3 59 25 3009.99 -24.91 96.28 245.69 65.88 4 49 35 2410.0 -27.95 88.44
 110.00 4 14 24 2964.32 -26.14 93.31 246.28 67.14 5 3 48 2364.3 -29.00 85.30
 110.00 3 45 45 3051.64 -23.71 98.93 245.08 64.62 4 36 36 2451.6 -26.92 91.24

DIFFERENTIAL CORRECTIONS

TDE 1.8984 TRA 1.7443 TC3-2.5303 BAU .5410
 RDE .1759 RRA -.0663 RC3 .1404 FAU .12789
 FDE 6.2285 FRA 6.8947 FC3-6.9340 BSP 13725
 BDE 1.9065 BRA 1.7456 BC3 2.5342 FSP -4843

MID-COURSE EXECUTION ACCURACY

SGT 4541.8 SGR 299.0 SG3 1374.6
 RRT .0827 RRF .0543 RTF .9909
 SGB 4551.6 R23 -.0282 R13 .9909
 SG1 4541.9 SG2 298.0 THA .31

ORBIT DETERMINATION ACCURACY

ST 2869.6 SR 254.6 SS 2780.2
 CRT .8967 CRS -.8687 CST -.9982
 LSA 4000.0 MSA 168.8 SSA 10.9
 EL1 2878.7 EL2 112.3 ALF 4.56

LAUNCH DATE DEC 8 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 16 1969

MELIOCENTRIC CONIC
 RL 147.35 LAL -.00 LOL 75.97 VL 27.795 GAL 5.01 AZL 86.63 MCA 231.45 SMA 128.99 ECC .16653 INC 3.3743 V1 30.237
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.517 GAP 3.47 AZP 92.10 TAL 153.35 TAP 24.81 RCA 107.51 APO 150.47 V2 34.784
 RC 103.240 GL 23.71 GP .35 ZAL 49.14 ZAP 130.28 ETS .93 ZAE 138.26 ETE 179.16 ZAC 91.61 ETC 166.39 CLP-130.28

PLANETOCENTRIC CONIC
 C3 16.423 VHL 4.053 DLA 34.03 RAL 19.74 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 3.492 DPA -3.87 RAP 358.58 ECC 1.2703
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.28 23 1 51 3961.06 -24.68 167.12 246.89 65.78 24 7 52 3361.1 -27.73 159.29
 109.72 4 1 27 3019.74 -24.66 96.92 246.88 65.77 4 51 46 2419.7 -27.72 89.10
 70.28 23 1 51 3961.06 -24.68 167.12 246.89 65.77 4 51 46 2419.7 -27.72 89.10
 109.72 4 1 27 3019.74 -24.66 96.92 246.88 65.77 4 51 46 2419.7 -27.72 89.10
 110.00 4 27 21 2940.73 -26.75 91.75 247.87 67.88 5 16 22 2340.7 -29.51 83.65
 110.00 3 39 2 3088.07 -22.62 101.20 245.83 63.66 4 30 30 2488.1 -25.97 93.65

MID-COURSE EXECUTION ACCURACY
 SGT 4828.2 SGR 312.6 SG3 1262.7
 RRT .0893 RRF .0632 RTF .9912
 SGB 4838.3 R23 -.0258 R13 .9912
 SGI 4828.3 SG2 311.3 THA .33

ORBIT DETERMINATION ACCURACY
 ST 3021.3 SR 268.3 SS 2644.7
 CRT .8950 CRS -.8674 CST -.9983
 LSA 4020.6 MSA 171.5 SSA 11.2
 EL1 3030.8 EL2 119.3 ALF 4.55

DIFFERENTIAL CORRECTIONS
 TOE 2.0209 TRA 1.9151 TC3-2.6094 BAU .5738
 RDE .1881 RRA -.0683 RC3 .1427 FAU .11666
 FDE 5.7352 FRA 6.5005 FC3-6.1497 BSP 14780
 BOE 2.0296 BRA 1.9164 BC3 2.6133 FSP -4483

LAUNCH DATE DEC 8 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 18 1969

MELIOCENTRIC CONIC
 RL 147.35 LAL -.00 LOL 75.97 VL 27.784 GAL 5.18 AZL 86.62 MCA 234.61 SMA 128.92 ECC .16859 INC 3.3765 V1 30.237
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.508 GAP 3.86 AZP 91.96 TAL 152.80 TAP 27.41 RCA 107.18 APO 150.65 V2 34.783
 RC 105.643 GL 23.33 GP .32 ZAL 48.45 ZAP 133.72 ETS .92 ZAE 136.07 ETE 179.04 ZAC 91.34 ETC 166.39 CLP-133.72

PLANETOCENTRIC CONIC
 C3 16.941 VHL 4.116 DLA 33.92 RAL 20.57 RAD 6567.7 VEL 11.761 PTH 2.08 VHP 3.653 DPA -4.01 RAP 358.34 ECC 1.2788
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.50 23 6 29 3964.21 -24.40 167.22 248.17 65.67 24 12 33 3364.2 -27.47 159.43
 109.50 4 3 29 3030.83 -24.39 97.65 248.17 65.66 4 54 0 2430.8 -27.46 89.85
 70.50 23 6 29 3964.21 -24.40 167.22 248.17 65.67 24 12 33 3364.2 -27.47 159.43
 109.50 4 3 29 3030.83 -24.39 97.65 248.17 65.66 4 54 0 2430.8 -27.46 89.85
 110.00 4 38 39 2923.47 -27.19 90.60 249.48 68.44 5 27 23 2323.5 -29.87 82.43
 110.00 3 34 25 3119.56 -21.66 103.14 246.74 62.89 4 26 24 2519.6 -25.12 95.69

MID-COURSE EXECUTION ACCURACY
 SGT 5085.1 SGR 325.4 SG3 1157.8
 RRT .0970 RRF .0731 RTF .9914
 SGB 5095.5 R23 -.0236 R13 .9913
 SGI 5085.2 SG2 323.9 THA .36

ORBIT DETERMINATION ACCURACY
 ST 3150.4 SR 281.8 SS 2513.9
 CRT .8933 CRS -.8659 CST -.9983
 LSA 4036.5 MSA 174.3 SSA 11.5
 EL1 3160.4 EL2 126.2 ALF 4.58

DIFFERENTIAL CORRECTIONS
 TOE 2.1333 TRA 2.0855 TC3-2.6614 BAU .6036
 RDE .2008 RRA -.0699 RC3 .1437 FAU .10593
 FDE 5.2746 FRA 6.1315 FC3-5.4136 BSP 15733
 BOE 2.1427 BRA 2.0867 BC3 2.6653 FSP -4137

LAUNCH DATE DEC 8 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 20 1969

MELIOCENTRIC CONIC
 RL 147.35 LAL -.00 LOL 75.97 VL 27.772 GAL 5.36 AZL 86.62 MCA 237.77 SMA 128.83 ECC .17088 INC 3.3785 V1 30.237
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.499 GAP 4.26 AZP 91.80 TAL 152.22 TAP 29.99 RCA 106.82 APO 150.85 V2 34.783
 RC 108.045 GL 22.91 GP .30 ZAL 47.72 ZAP 136.91 ETS .93 ZAE 134.12 ETE 178.93 ZAC 91.32 ETC 166.38 CLP-136.91

PLANETOCENTRIC CONIC
 C3 17.525 VHL 4.186 DLA 33.79 RAL 21.46 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 3.825 DPA -4.04 RAP 358.32 ECC 1.2884
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.75 23 11 34 3967.30 -24.09 167.31 249.54 65.56 24 17 41 3367.3 -27.18 159.54
 109.25 4 5 28 3043.40 -24.08 98.47 249.54 65.55 4 56 11 2443.4 -27.17 90.71
 70.75 23 11 34 3967.30 -24.09 167.31 249.54 65.56 24 17 41 3367.3 -27.18 159.54
 109.25 4 5 28 3043.40 -24.08 98.47 249.54 65.55 4 56 11 2443.4 -27.17 90.71
 110.00 4 49 25 2909.11 -27.54 89.63 251.15 68.91 5 37 54 2309.1 -30.16 81.42
 110.00 3 30 43 3149.58 -20.72 104.96 247.75 62.18 4 23 13 2549.6 -24.27 97.62

MID-COURSE EXECUTION ACCURACY
 SGT 5318.2 SGR 337.6 SG3 1061.5
 RRT .1070 RRF .0855 RTF .9913
 SGB 5328.9 R23 -.0211 R13 .9913
 SGI 5318.3 SG2 335.7 THA .39

ORBIT DETERMINATION ACCURACY
 ST 3262.7 SR 295.1 SS 2392.6
 CRT .8916 CRS -.8643 CST -.9983
 LSA 4052.8 MSA 177.3 SSA 11.8
 EL1 3273.3 EL2 133.2 ALF 4.62

DIFFERENTIAL CORRECTIONS
 TOE 2.2395 TRA 2.2591 TC3-2.6832 BAU .6295
 RDE .2140 RRA -.0712 RC3 .1433 FAU .09544
 FDE 4.8578 FRA 5.7971 FC3-4.7149 BSP 16532
 BOE 2.2497 BRA 2.2602 BC3 2.6871 FSP -3792

LAUNCH DATE DEC 8 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 22 1969

MELIOCENTRIC CONIC
 RL 147.35 LAL -.00 LOL 75.97 VL 27.759 GAL 5.56 AZL 86.62 MCA 240.93 SMA 128.74 ECC .17341 INC 3.3804 V1 30.237
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.491 GAP 4.65 AZP 91.64 TAL 151.60 TAP 32.53 RCA 106.42 APO 151.07 V2 34.784
 RC 110.446 GL 22.46 GP .27 ZAL 46.95 ZAP 139.87 ETS .95 ZAE 132.37 ETE 178.85 ZAC 91.52 ETC 166.39 CLP-139.87

PLANETOCENTRIC CONIC
 C3 18.181 VHL 4.264 DLA 33.64 RAL 22.39 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.007 DPA -3.98 RAP 358.51 ECC 1.2992
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.04 23 17 2 3970.43 -23.75 167.39 251.00 65.45 24 23 12 3370.4 -26.86 159.65
 108.96 4 7 24 3057.37 -23.74 99.39 251.00 65.44 4 58 21 2457.4 -26.85 91.65
 71.04 23 17 2 3970.43 -23.75 167.39 251.00 65.45 24 23 12 3370.4 -26.86 159.65
 108.96 4 7 24 3057.37 -23.74 99.39 251.00 65.44 4 58 21 2457.4 -26.85 91.65
 110.00 4 59 57 2896.64 -27.85 88.79 252.90 69.32 5 48 13 2296.6 -30.40 80.53
 110.00 3 27 36 3179.16 -19.77 106.73 248.87 61.53 4 20 35 2579.2 -23.41 99.48

MID-COURSE EXECUTION ACCURACY
 SGT 5523.5 SGR 349.0 SG3 972.1
 RRT .1181 RRF .0987 RTF .9911
 SGB 5534.5 R23 -.0190 R13 .9911
 SGI 5523.6 SG2 346.5 THA .43

ORBIT DETERMINATION ACCURACY
 ST 3351.7 SR 308.2 SS 2273.0
 CRT .8900 CRS -.8626 CST -.9984
 LSA 4057.4 MSA 180.5 SSA 12.1
 EL1 3362.9 EL2 140.1 ALF 4.69

DIFFERENTIAL CORRECTIONS
 TOE 2.3347 TRA 2.4319 TC3-2.6895 BAU .6546
 RDE .2278 RRA -.0720 RC3 .1414 FAU .08622
 FDE 4.4675 FRA 5.4819 FC3-4.1056 BSP 17317
 BOE 2.3458 BRA 2.4329 BC3 2.6932 FSP -3493

LAUNCH DATE DEC 8 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 544.483

RL 147.35 LAL -.00 LOL 75.97 VL 27.745 GAL 5.77 AZL 86.62 HCA 244.10 SMA 128.64 ECC .17619 INC 3.3821 V1 30.237
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.482 GAP 5.05 AZP 91.48 TAL 150.95 TAP 35.04 RCA 105.98 APO 151.31 V2 34.786
 RC 112.844 GL 21.99 GP .25 ZAL 46.14 ZAP 142.62 ETS .98 ZAE 130.81 ETE 178.78 ZAC 91.93 ETC 166.41 CLP-142.62

PLANETOCENTRIC CONIC

C3 18.916 VHL 4.349 DLA 33.47 RAL 23.36 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 4.201 DPA -3.83 RAP 358.90 ECC 1.3113
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.36 23 22 55 3973.56 -23.38 167.44 252.55 65.33 24 29 8 3373.6 -26.50 159.74
 108.64 4 9 15 3072.86 -23.36 100.40 252.54 65.32 5 0 28 2472.9 -26.49 92.70
 71.36 23 22 55 3973.56 -23.38 167.44 252.55 65.33 24 29 8 3373.6 -26.50 159.74
 108.64 4 9 15 3072.86 -23.36 100.40 252.54 65.32 5 0 28 2472.9 -26.49 92.70
 110.00 5 10 22 2885.64 -28.11 88.04 254.72 69.70 5 58 28 2285.6 -30.61 79.74
 110.00 3 24 53 3208.77 -18.80 108.48 250.06 60.91 4 18 22 2608.8 -22.53 101.33

DIFFERENTIAL CORRECTIONS

TDE 2.4239 TRA 2.6088 TC3-2.6737 BAU .6771
 ROE .2423 RRA -.0722 RC3 .1383 FAU .07761
 FDE 4.1145 FRA 5.1961 FC3-3.5521 BSP 18021
 BDE 2.4360 BRA 2.6098 BC3 2.6772 FSP -3213

MID-COURSE EXECUTION ACCURACY

SGT 5707.8 SGR 359.6 SG3 890.6
 RRT .1314 RRF .1140 RTF .9909
 SGB 5719.1 R23 -.0168 R13 .9909
 SGI 5708.0 SG2 356.5 THA .48

ORBIT DETERMINATION ACCURACY

ST 3424.7 SR 321.0 SS 2160.9
 CRT .8883 CRS -.8609 CST -.9984
 LSA 4058.0 MSA 183.7 SSA 12.3
 EL1 3436.6 EL2 146.9 ALF 4.77

LAUNCH DATE DEC 8 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 550.496

RL 147.35 LAL -.00 LOL 75.97 VL 27.730 GAL 6.01 AZL 86.62 HCA 247.26 SMA 128.54 ECC .17923 INC 3.3837 V1 30.237
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.473 GAP 5.46 AZP 91.31 TAL 150.27 TAP 37.53 RCA 105.50 APO 151.58 V2 34.789
 RC 115.239 GL 21.49 GP .24 ZAL 45.31 ZAP 145.18 ETS 1.03 ZAE 129.42 ETE 178.72 ZAC 92.51 ETC 166.44 CLP-145.18

PLANETOCENTRIC CONIC

C3 19.739 VHL 4.443 DLA 33.29 RAL 24.36 RAD 6567.8 VEL 11.879 PTH 2.11 VHP 4.404 DPA -3.60 RAP 359.46 ECC 1.3249
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.72 23 29 11 3976.63 -22.97 167.48 254.17 65.22 24 35 28 3376.6 -26.12 159.80
 108.28 4 10 58 3089.93 -22.96 101.52 254.16 65.21 5 2 28 2489.9 -26.10 93.85
 71.72 23 29 11 3976.63 -22.97 167.48 254.17 65.22 24 35 28 3376.6 -26.12 159.80
 108.28 4 10 58 3089.93 -22.96 101.52 254.16 65.21 5 2 28 2489.9 -26.10 93.85
 110.00 5 20 46 2875.90 -28.34 87.38 256.62 70.03 6 8 42 2275.9 -30.79 79.04
 110.00 3 22 30 3238.66 -17.80 110.22 251.33 60.32 4 16 29 2638.7 -21.61 103.16

DIFFERENTIAL CORRECTIONS

TDE 2.5074 TRA 2.7909 TC3-2.6390 BAU .6973
 ROE .2573 RRA -.0717 RC3 .1339 FAU .06974
 FDE 3.7946 FRA 4.9373 FC3-3.0586 BSP 18650
 BDE 2.5206 BRA 2.7918 BC3 2.6424 FSP -2955

MID-COURSE EXECUTION ACCURACY

SGT 5873.0 SGR 369.5 SG3 816.7
 RRT .1466 RRF .1312 RTF .9906
 SGB 5884.6 R23 -.0147 R13 .9906
 SGI 5873.3 SG2 365.5 THA .53

ORBIT DETERMINATION ACCURACY

ST 3482.7 SR 333.5 SS 2055.3
 CRT .8867 CRS -.8592 CST -.9984
 LSA 4053.3 MSA 187.2 SSA 12.5
 EL1 3495.3 EL2 153.7 ALF 4.86

LAUNCH DATE DEC 8 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 556.479

RL 147.35 LAL -.00 LOL 75.97 VL 27.714 GAL 6.26 AZL 86.61 HCA 250.42 SMA 128.43 ECC .18255 INC 3.3853 V1 30.237
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.465 GAP 5.88 AZP 91.14 TAL 149.56 TAP 39.98 RCA 104.99 APO 151.88 V2 34.792
 RC 117.630 GL 20.97 GP .22 ZAL 44.44 ZAP 147.57 ETS 1.08 ZAE 128.17 ETE 178.67 ZAC 93.27 ETC 166.47 CLP-147.57

PLANETOCENTRIC CONIC

C3 20.659 VHL 4.545 DLA 33.09 RAL 25.39 RAD 6567.8 VEL 11.918 PTH 2.12 VHP 4.618 DPA -3.30 RAP .17 ECC 1.3400
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.12 23 35 50 3979.71 -22.53 167.49 255.86 65.11 24 42 10 3379.7 -25.70 159.86
 107.88 4 12 34 3108.58 -22.52 102.74 255.86 65.09 5 4 23 2508.6 -25.68 95.11
 72.12 23 35 50 3979.71 -22.53 167.49 255.86 65.11 24 42 10 3379.7 -25.70 159.86
 107.88 4 12 34 3108.58 -22.52 102.74 255.86 65.09 5 4 23 2508.6 -25.68 95.11
 110.00 5 31 8 2867.28 -28.54 86.78 258.59 70.33 6 18 55 2267.3 -30.95 78.41
 110.00 3 20 23 3269.00 -16.77 111.97 252.67 59.77 4 14 52 2669.0 -20.66 105.00

DIFFERENTIAL CORRECTIONS

TDE 2.5855 TRA 2.9788 TC3-2.5881 BAU .7157
 ROE .2730 RRA -.0704 RC3 .1284 FAU .06257
 FDE 3.5045 FRA 4.7030 FC3-2.6218 BSP 19231
 BDE 2.5999 BRA 2.9796 BC3 2.5913 FSP -2722

MID-COURSE EXECUTION ACCURACY

SGT 6020.3 SGR 378.6 SG3 749.6
 RRT .1634 RRF .1501 RTF .9902
 SGB 6032.2 R23 -.0126 R13 .9902
 SGI 6020.6 SG2 373.5 THA .59

ORBIT DETERMINATION ACCURACY

ST 3526.4 SR 345.7 SS 1955.6
 CRT .8850 CRS -.8574 CST -.9984
 LSA 4042.6 MSA 190.7 SSA 12.6
 EL1 3539.6 EL2 160.3 ALF 4.97

LAUNCH DATE DEC 8 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 562.433

RL 147.35 LAL -.00 LOL 75.97 VL 27.698 GAL 6.54 AZL 86.61 HCA 253.58 SMA 128.32 ECC .18615 INC 3.3869 V1 30.237
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.456 GAP 6.30 AZP 90.96 TAL 148.83 TAP 42.41 RCA 104.43 APO 152.21 V2 34.796
 RC 120.015 GL 20.43 GP .21 ZAL 43.55 ZAP 149.81 ETS 1.14 ZAE 127.05 ETE 178.64 ZAC 94.16 ETC 166.51 CLP-149.81

PLANETOCENTRIC CONIC

C3 21.687 VHL 4.657 DLA 32.87 RAL 26.45 RAD 6567.9 VEL 11.961 PTH 2.13 VHP 4.841 DPA -2.93 RAP 1.02 ECC 1.3569
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.57 23 42 52 3982.70 -22.06 167.49 257.63 64.99 24 49 15 3382.7 -25.24 159.89
 107.43 4 13 59 3128.93 -22.05 104.07 257.63 64.98 5 6 8 2528.9 -25.23 96.47
 72.57 23 42 52 3982.70 -22.06 167.49 257.63 64.99 24 49 15 3382.7 -25.24 159.89
 107.43 4 13 59 3128.93 -22.05 104.07 257.63 64.98 5 6 8 2528.9 -25.23 96.47
 110.00 5 41 30 2859.73 -28.71 86.26 260.63 70.59 6 29 9 2259.7 -31.08 77.87
 110.00 3 18 28 3299.89 -15.70 113.72 254.08 59.24 4 13 28 2699.9 -19.66 106.84

DIFFERENTIAL CORRECTIONS

TDE 2.6633 TRA 3.1776 TC3-2.5165 BAU .7305
 ROE .2894 RRA -.0682 RC3 .1221 FAU .05574
 FDE 3.2483 FRA 4.4969 FC3-2.2252 BSP 19683
 BDE 2.6789 BRA 3.1784 BC3 2.5194 FSP -2497

MID-COURSE EXECUTION ACCURACY

SGT 6156.1 SGR 386.9 SG3 689.4
 RRT .1826 RRF .1714 RTF .9898
 SGB 6168.2 R23 -.0103 R13 .9898
 SGI 6156.5 SG2 380.4 THA .66

ORBIT DETERMINATION ACCURACY

ST 3562.6 SR 357.4 SS 1865.2
 CRT .8834 CRS -.8558 CST -.9984
 LSA 4032.4 MSA 194.3 SSA 12.8
 EL1 3576.5 EL2 166.8 ALF 5.07

LAUNCH DATE DEC 8 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

RL 147.35 LAL -.00 LOL 75.97 VL 27.681 GAL 6.83 AZL 86.61 MCA 256.75 SMA 128.21 ECC .19007 INC 3.3883 V1 30.237
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.448 GAP 6.73 AZP 90.78 TAL 148.08 TAP 44.83 RCA 103.84 APO 152.57 V2 34.800
 RC 122.394 GL 19.87 GP .19 ZAL 42.64 ZAP 151.92 ETS 1.21 ZAE 126.05 ETE 178.62 ZAC 95.19 ETC 166.54 CLP-151.92

PLANETOCENTRIC CONIC

C3 22.834 VHL 4.779 DLA 32.64 RAL 27.53 RAD 6567.9 VEL 12.009 PTH 2.14 VHP 5.076 DPA -2.51 RAP 1.99 ECC 1.3758
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.05 23 50 20 3985.45 -21.55 167.44 259.47 64.88 24 56 45 3385.4 -24.76 159.88
 106.95 4 15 9 3151.17 -21.54 105.52 259.46 64.87 5 7 40 2551.2 -24.74 97.96
 73.05 23 50 20 3985.45 -21.55 167.44 259.47 64.88 24 56 45 3385.4 -24.76 159.88
 106.95 4 15 9 3151.17 -21.54 105.52 259.46 64.87 5 7 40 2551.2 -24.74 97.96
 110.00 5 51 50 2853.21 -28.86 85.81 262.75 70.82 6 39 24 2253.2 -31.19 77.39
 110.00 3 16 44 3331.41 -14.59 115.50 255.55 58.74 4 12 15 2731.4 -18.63 108.70

DIFFERENTIAL CORRECTIONS

TDE 2.7342 TRA 3.3820 TC3-2.4374 BAU .7449 SGT 6274.0 SGR 394.5 SG3 634.3 ST 3583.2 SR 368.4 SS 1777.7
 RDE .3064 RRA -.0652 RC3 .1149 FAU .04979 RRT .2027 RRF .1932 RTF .9894 CRT .8816 CRS -.8540 CST -.9984
 FDE 3.0119 FRA 4.3067 FC3-1.8877 BSP 20168 SGB 6286.4 R23 -.0083 R13 .9893 LSA 4012.0 MSA 197.9 SSA 12.9
 BOE 2.7513 BRA 3.3827 BC3 2.4402 FSP -2304 SG1 6274.5 SG2 386.2 THA .73 EL1 3598.0 EL2 173.2 ALF 5.19

LAUNCH DATE DEC 8 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

RL 147.35 LAL -.00 LOL 75.97 VL 27.663 GAL 7.15 AZL 86.61 MCA 259.91 SMA 128.09 ECC .19433 INC 3.3897 V1 30.237
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.440 GAP 7.18 AZP 90.59 TAL 147.31 TAP 47.22 RCA 103.19 APO 152.98 V2 34.805
 RC 124.766 GL 19.30 GP .18 ZAL 41.71 ZAP 153.91 ETS 1.29 ZAE 125.15 ETE 178.61 ZAC 96.33 ETC 166.58 CLP-153.91

PLANETOCENTRIC CONIC

C3 24.117 VHL 4.911 DLA 32.39 RAL 28.63 RAD 6568.0 VEL 12.062 PTH 2.16 VHP 5.322 DPA -2.04 RAP 3.06 ECC 1.3969
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.58 0 2 6 3988.02 -21.02 167.37 261.37 64.77 1 8 34 3388.0 -24.24 159.85
 106.42 4 16 3 3175.29 -21.00 107.10 261.36 64.76 5 8 58 2575.3 -24.23 99.58
 73.58 0 2 6 3988.02 -21.02 167.37 261.37 64.77 1 8 34 3388.0 -24.24 159.85
 106.42 4 16 3 3175.29 -21.00 107.10 261.36 64.76 5 8 58 2575.3 -24.23 99.58
 110.00 6 2 10 2847.69 -28.98 85.43 264.93 71.02 6 49 38 2247.7 -31.29 76.99
 110.00 3 15 9 3363.61 -13.45 117.29 257.08 58.27 4 11 12 2763.6 -17.55 110.58

DIFFERENTIAL CORRECTIONS

TDE 2.8032 TRA 3.5969 TC3-2.3464 BAU .7573 SGT 6380.0 SGR 401.3 SG3 584.5 ST 3594.9 SR 378.8 SS 1696.3
 RDE .3239 RRA -.0610 RC3 .1072 FAU .04433 RRT .2243 RRF .2165 RTF .9889 CRT .8798 CRS -.8522 CST -.9984
 FDE 2.7993 FRA 4.1363 FC3-1.5913 BSP 20596 SGB 6392.6 R23 -.0063 R13 .9889 LSA 3987.9 MSA 201.5 SSA 12.9
 BOE 2.8218 BRA 3.5974 BC3 2.3488 FSP -2127 SG1 6380.6 SG2 391.0 THA .81 EL1 3610.4 EL2 179.3 ALF 5.31

LAUNCH DATE DEC 8 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

RL 147.35 LAL -.00 LOL 75.97 VL 27.645 GAL 7.50 AZL 86.61 MCA 263.08 SMA 127.96 ECC .19894 INC 3.3912 V1 30.237
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.432 GAP 7.64 AZP 90.41 TAL 146.52 TAP 49.59 RCA 102.50 APO 153.42 V2 34.811
 RC 127.128 GL 18.71 GP .17 ZAL 40.77 ZAP 155.79 ETS 1.37 ZAE 124.34 ETE 178.61 ZAC 97.58 ETC 166.61 CLP-155.79

PLANETOCENTRIC CONIC

C3 25.551 VHL 5.055 DLA 32.12 RAL 29.73 RAD 6568.0 VEL 12.121 PTH 2.17 VHP 5.580 DPA -1.52 RAP 4.23 ECC 1.4205
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.16 0 10 21 3990.29 -20.44 167.25 263.33 64.67 1 16 51 3390.3 -23.68 159.77
 105.84 4 16 37 3201.45 -20.43 108.80 263.32 64.66 5 9 59 2601.4 -23.67 101.33
 74.16 0 10 21 3990.29 -20.44 167.25 263.33 64.67 1 16 51 3390.3 -23.68 159.77
 105.84 4 16 37 3201.45 -20.43 108.80 263.32 64.66 5 9 59 2601.4 -23.67 101.33
 110.00 6 12 28 2843.18 -29.08 85.12 267.18 71.18 6 59 51 2243.2 -31.37 76.66
 110.00 3 13 40 3396.56 -12.26 119.10 258.66 57.84 4 10 17 2796.6 -16.42 112.47

DIFFERENTIAL CORRECTIONS

TDE 2.8700 TRA 3.8225 TC3-2.2452 BAU .7677 SGT 6473.7 SGR 407.3 SG3 539.4 ST 3597.7 SR 388.3 SS 1620.2
 RDE .3420 RRA -.0558 RC3 .0991 FAU .03934 RRT .2471 RRF .2408 RTF .9885 CRT .8779 CRS -.8503 CST -.9985
 FDE 2.6072 FRA 3.9831 FC3-1.3330 BSP 20993 SGB 6486.5 R23 -.0045 R13 .9885 LSA 3959.4 MSA 205.1 SSA 12.9
 BOE 2.8903 BRA 3.8229 BC3 2.2473 FSP -1966 SG1 6474.5 SG2 394.6 THA .89 EL1 3613.8 EL2 185.1 ALF 5.43

LAUNCH DATE DEC 8 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

RL 147.35 LAL -.00 LOL 75.97 VL 27.627 GAL 7.87 AZL 86.61 MCA 266.24 SMA 127.83 ECC .20394 INC 3.3926 V1 30.237
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.424 GAP 8.12 AZP 90.22 TAL 145.71 TAP 51.96 RCA 101.76 APO 153.90 V2 34.818
 RC 129.481 GL 18.11 GP .16 ZAL 39.81 ZAP 157.58 ETS 1.46 ZAE 123.60 ETE 178.62 ZAC 98.91 ETC 166.63 CLP-157.58

PLANETOCENTRIC CONIC

C3 27.157 VHL 5.211 DLA 31.84 RAL 30.85 RAD 6568.1 VEL 12.187 PTH 2.19 VHP 5.851 DPA -.96 RAP 5.49 ECC 1.4469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.79 0 19 2 3992.14 -19.84 167.09 265.35 64.57 1 25 34 3392.1 -23.10 159.65
 105.21 4 16 49 3229.80 -19.83 110.65 265.34 64.56 5 10 39 2629.8 -23.09 103.22
 74.79 0 19 2 3992.14 -19.84 167.09 265.35 64.57 1 25 34 3392.1 -23.10 159.65
 105.21 4 16 49 3229.80 -19.83 110.65 265.34 64.56 5 10 39 2629.8 -23.09 103.22
 110.00 6 22 43 2839.66 -29.15 84.87 269.49 71.31 7 10 3 2239.7 -31.42 76.40
 110.00 3 12 18 3430.27 -11.03 120.94 260.30 57.44 4 9 28 2830.3 -15.25 114.38

DIFFERENTIAL CORRECTIONS

TDE 2.9394 TRA 4.0647 TC3-2.1297 BAU .7739 SGT 6561.1 SGR 412.7 SG3 498.8 ST 3597.2 SR 397.1 SS 1551.6
 RDE .3607 RRA -.0494 RC3 .0908 FAU .03456 RRT .2716 RRF .2669 RTF .9880 CRT .8760 CRS -.8487 CST -.9985
 FDE 2.4380 FRA 3.8500 FC3-1.1016 BSP 21264 SGB 6574.1 R23 -.0025 R13 .9880 LSA 3932.1 MSA 208.5 SSA 12.9
 BOE 2.9614 BRA 4.0650 BC3 2.1316 FSP -1810 SG1 6562.1 SG2 397.1 THA .98 EL1 3614.0 EL2 190.6 ALF 5.54

LAUNCH DATE DEC 8 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 591.655

RL 147.35 LAL -.00 LOL 75.97 VL 27.608 GAL 8.27 AZL 86.61 MCA 269.41 SMA 127.70 ECC .20936 INC 3.3939 V1 30.237
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.417 GAP 8.62 AZP 90.04 TAL 144.90 TAP 54.31 RCA 100.97 APO 154.44 V2 34.825
 RC 131.823 GL 17.49 GP .16 ZAL 38.86 ZAP 159.29 ETS 1.56 ZAE 122.93 ETE 178.63 ZAC 100.32 ETC 166.65 CLP-159.29

PLANETOCENTRIC CONIC

C3 28.957 VHL 5.381 DLA 31.55 RAL 31.96 RAD 6568.2 VEL 12.261 PTH 2.21 VHP 6.136 DPA -.36 RAP 6.82 ECC 1.4766
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.47 0 28 11 3993.38 -19.20 166.86 267.42 64.48 1 34 44 3393.4 -22.48 159.47
 104.53 4 16 33 3260.56 -19.19 112.66 267.42 64.46 5 10 54 2660.6 -22.46 105.27
 75.47 0 28 11 3993.38 -19.20 166.86 267.42 64.48 1 34 44 3393.4 -22.48 159.47
 104.53 4 16 33 3260.56 -19.19 112.66 267.42 64.46 5 10 54 2660.6 -22.46 105.27
 110.00 6 32 55 2837.15 -29.21 84.70 271.86 71.40 7 20 12 2237.1 -31.47 76.22
 110.00 3 11 0 3464.80 -9.76 122.81 261.98 57.08 4 8 45 2864.8 -14.03 116.31

DIFFERENTIAL CORRECTIONS

TDE 3.0039 TRA 4.3165 TC3-2.0136 BAU .7802
 RDE .3798 RRA -.0417 RC3 .0824 FAU .03041
 FDE 2.2807 FRA 3.7267 FC3 -.9090 BSP 21599
 BDE 3.0278 BRA 4.3167 BC3 2.0152 FSP -1678

MID-COURSE EXECUTION ACCURACY

SGT 6634.2 SGR 417.3 SG3 461.5
 RRT .2963 RRF .2928 RTF .9876
 SGB 6647.3 R23 -.0009 R13 .9876
 SG1 6635.3 SG2 398.5 THA 1.07

ORBIT DETERMINATION ACCURACY

ST 3585.0 SR 404.7 SS 1485.3
 CRT .8739 CRS -.8468 CST -.9985
 LSA 3895.7 MSA 211.7 SSA 12.8
 EL1 3602.4 EL2 195.8 ALF 5.65

LAUNCH DATE DEC 8 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 597.363

RL 147.35 LAL -.00 LOL 75.97 VL 27.588 GAL 8.69 AZL 86.60 MCA 272.58 SMA 127.57 ECC .21524 INC 3.3953 V1 30.237
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.410 GAP 9.13 AZP 89.85 TAL 144.08 TAP 56.66 RCA 100.11 APO 155.03 V2 34.833
 RC 134.153 GL 16.87 GP .15 ZAL 37.89 ZAP 160.93 ETS 1.66 ZAE 122.32 ETE 178.65 ZAC 101.81 ETC 166.66 CLP-160.93

PLANETOCENTRIC CONIC

C3 30.979 VHL 5.566 DLA 31.24 RAL 33.07 RAD 6568.2 VEL 12.343 PTH 2.23 VHP 6.436 DPA .27 RAP 8.22 ECC 1.5098
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.22 0 37 49 3993.97 -18.53 166.56 269.55 64.39 1 44 23 3394.0 -21.82 159.21
 103.78 4 15 48 3293.81 -18.52 114.84 269.54 64.38 5 10 42 2693.8 -21.81 107.49
 76.22 0 37 49 3993.97 -18.53 166.56 269.55 64.39 1 44 23 3394.0 -21.82 159.21
 103.78 4 15 48 3293.81 -18.52 114.84 269.54 64.38 5 10 42 2693.8 -21.81 107.49
 110.00 6 43 2 2835.63 -29.24 84.59 274.29 71.45 7 30 18 2235.6 -31.49 76.11
 110.00 3 9 45 3500.15 -8.45 124.70 263.71 56.75 4 8 5 2900.2 -12.76 118.27

DIFFERENTIAL CORRECTIONS

TDE 3.0687 TRA 4.5838 TC3-1.8913 BAU .7839
 RDE .3994 RRA -.0326 RC3 .0741 FAU .02657
 FDE 2.1391 FRA 3.6173 FC3 -.7425 BSP 21900
 BDE 3.0946 BRA 4.5839 BC3 1.8928 FSP -1556

MID-COURSE EXECUTION ACCURACY

SGT 6698.4 SGR 421.2 SG3 427.6
 RRT .3220 RRF .3195 RTF .9872
 SGB 6711.6 R23 .0006 R13 .9872
 SG1 6699.8 SG2 398.7 THA 1.16

ORBIT DETERMINATION ACCURACY

ST 3567.1 SR 411.4 SS 1423.9
 CRT .8718 CRS -.8449 CST -.9986
 LSA 3856.7 MSA 214.7 SSA 12.7
 EL1 3585.1 EL2 200.5 ALF 5.76

LAUNCH DATE DEC 8 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 603.014

RL 147.35 LAL -.00 LOL 75.97 VL 27.568 GAL 9.16 AZL 86.60 MCA 275.75 SMA 127.44 ECC .22162 INC 3.3967 V1 30.237
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.403 GAP 9.68 AZP 89.66 TAL 143.25 TAP 59.00 RCA 99.20 APO 155.68 V2 34.841
 RC 136.471 GL 16.24 GP .14 ZAL 36.93 ZAP 162.51 ETS 1.77 ZAE 121.76 ETE 178.68 ZAC 103.35 ETC 166.65 CLP-162.51

PLANETOCENTRIC CONIC

C3 33.255 VHL 5.767 DLA 30.92 RAL 34.18 RAD 6568.3 VEL 12.435 PTH 2.25 VHP 6.754 DPA .92 RAP 9.67 ECC 1.5473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.04 0 48 3 3993.44 -17.83 166.17 271.71 64.32 1 54 37 3393.4 -21.14 158.86
 102.96 4 14 23 3330.04 -17.82 117.21 271.71 64.31 5 9 53 2730.0 -21.13 109.90
 77.04 0 48 3 3993.44 -17.83 166.17 271.71 64.32 1 54 37 3393.4 -21.14 158.86
 102.96 4 14 23 3330.04 -17.82 117.21 271.71 64.31 5 9 53 2730.0 -21.13 109.90
 110.00 6 53 4 2835.13 -29.25 84.56 276.77 71.47 7 40 19 2235.1 -31.50 76.07
 110.00 3 8 32 3536.36 -7.09 126.63 265.48 56.47 4 7 29 2936.4 -11.45 120.25

DIFFERENTIAL CORRECTIONS

TDE 3.1344 TRA 4.8681 TC3-1.7642 BAU .7849
 RDE .4195 RRA -.0221 RC3 .0660 FAU .02302
 FDE 2.0115 FRA 3.5202 FC3 -.5992 BSP 22169
 BDE 3.1624 BRA 4.8681 BC3 1.7655 FSP -1445

MID-COURSE EXECUTION ACCURACY

SGT 6754.5 SGR 424.4 SG3 396.8
 RRT .3484 RRF .3468 RTF .9869
 SGB 6767.8 R23 .0019 R13 .9869
 SG1 6756.1 SG2 397.8 THA 1.26

ORBIT DETERMINATION ACCURACY

ST 3544.4 SR 416.8 SS 1367.3
 CRT .8696 CRS -.8431 CST -.9986
 LSA 3815.6 MSA 217.4 SSA 12.6
 EL1 3562.9 EL2 204.8 ALF 5.86

LAUNCH DATE DEC 8 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 608.600

RL 147.35 LAL -.00 LOL 75.97 VL 27.548 GAL 9.66 AZL 86.60 MCA 278.92 SMA 127.30 ECC .22855 INC 3.3981 V1 30.237
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.396 GAP 10.25 AZP 89.47 TAL 142.43 TAP 61.35 RCA 98.21 APO 156.40 V2 34.850
 RC 138.775 GL 15.60 GP .14 ZAL 35.98 ZAP 164.03 ETS 1.88 ZAE 121.24 ETE 178.71 ZAC 104.94 ETC 166.64 CLP-164.03

PLANETOCENTRIC CONIC

C3 35.825 VHL 5.985 DLA 30.58 RAL 35.27 RAD 6568.4 VEL 12.538 PTH 2.27 VHP 7.090 DPA 1.59 RAP 11.17 ECC 1.5896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.95 0 58 59 3991.45 -17.10 165.65 273.93 64.25 2 5 30 3391.4 -20.42 158.38
 102.05 4 12 10 3369.61 -17.08 119.81 273.92 64.24 5 8 20 2769.6 -20.41 112.54
 77.95 0 58 59 3991.45 -17.10 165.65 273.93 64.25 2 5 30 3391.4 -20.42 158.38
 102.05 4 12 10 3369.61 -17.08 119.81 273.92 64.24 5 8 20 2769.6 -20.41 112.54
 110.00 7 2 59 2835.62 -29.24 84.59 279.29 71.45 7 50 15 2235.6 -31.49 76.11
 110.00 3 7 20 3573.43 -5.69 128.59 267.30 56.24 4 6 54 2973.4 -10.09 122.26

DIFFERENTIAL CORRECTIONS

TDE 3.2015 TRA 5.1713 TC3-1.6336 BAU .7829
 RDE .4399 RRA -.0100 RC3 .0583 FAU .01972
 FDE 1.8962 FRA 3.4349 FC3 -.4766 BSP 22402
 BDE 3.2316 BRA 5.1713 BC3 1.6347 FSP -1342

MID-COURSE EXECUTION ACCURACY

SGT 6802.8 SGR 427.0 SG3 368.7
 RRT .3754 RRF .3745 RTF .9866
 SGB 6816.2 R23 .0031 R13 .9866
 SG1 6804.7 SG2 395.6 THA 1.35

ORBIT DETERMINATION ACCURACY

ST 3517.3 SR 421.1 SS 1315.0
 CRT .8673 CRS -.8413 CST -.9987
 LSA 3772.2 MSA 219.7 SSA 12.5
 EL1 3536.3 EL2 208.5 ALF 5.95

LAUNCH DATE DEC 9 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 17 1969

HELIOCENTRIC CONIC

DISTANCE 132.466

RL 147.33 LAL -.00 LOL 76.99 VL 16.736 GAL 25.17 AZL 86.56 HCA 39.54 SMA 87.22 ECC .75485 INC 3.4364 V1 30.241
 RP 107.50 LAP 2.19 LOP 116.48 VP 30.783 GAP -47.59 AZP 87.35 TAL 170.88 TAP 210.42 RCA 21.38 APO 153.07 V2 35.251
 RC 79.887 GL 3.09 GP .04 ZAL 64.17 ZAP 32.59 ETS 179.06 ZAE 135.54 ETE 187.49 ZAC 64.58 ETC 163.22 CLP 32.59

PLANETOCENTRIC CONIC

C3 283.184 VHL 16.828 CLA 7.93 RAL 10.61 RAD 6571.6 VEL 20.112 PTH 3.14 VHP 26.906 DPA -14.79 RAP 332.37 ECC 5.6605
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 52 33 3029.92 -27.81 98.60 277.44 84.43 6 43 3 2429.9 -28.29 89.97
 90.00 19 50 3 5177.46 25.81 231.68 269.43 77.93 21 16 21 4577.5 23.89 223.53
 100.00 7 17 43 2755.24 -29.43 78.58 277.62 84.53 8 3 38 2155.2 -29.88 69.80
 100.00 21 7 34 4927.37 27.41 212.90 269.05 77.57 22 29 42 4327.4 25.42 204.66
 110.00 8 34 41 2514.37 -33.83 60.77 278.10 84.78 9 16 36 1914.4 -34.18 51.55
 110.00 22 7 6 4741.00 31.71 197.62 267.91 76.51 23 26 7 4141.0 29.53 189.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8203 TRA-2.0005 TC3 -.1133 BAU .4313 SGT 834.4 SGR 452.4 SG3 26.1 ST 347.4 SR 408.6 SS 340.9
 ROE-1.1872 RRA .5784 RC3 -.0123 FAU .01178 RRT -.0215 RRF .0189 RTF -.6276 CRT .7087 CRS .7818 CST .9923
 FDE .3723 FRA .7140 FC3 -.0360 BSP 1976 SGB 949.2 R23 .0002 R13 .6276 LSA 594.6 MSA 223.8 SSA 13.9
 BDE 1.4430 BRA 2.0825 BC3 .1139 FSP -53 SG1 834.5 SG2 452.2 THA 179.06 EL1 497.0 EL2 201.5 ALF 51.47

LAUNCH DATE DEC 9 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 138.119

RL 147.33 LAL -.00 LOL 76.99 VL 17.489 GAL 24.03 AZL 86.57 HCA 42.79 SMA 88.73 ECC .72778 INC 3.4317 V1 30.241
 RP 107.49 LAP 2.33 LOP 119.73 VP 31.202 GAP -45.44 AZP 87.48 TAL 170.01 TAP 212.80 RCA 24.15 APO 153.30 V2 35.254
 RC 77.721 GL 3.41 GP .04 ZAL 62.89 ZAP 31.06 ETS 179.16 ZAE 135.65 ETE 187.95 ZAC 66.23 ETC 163.53 CLP 31.06

PLANETOCENTRIC CONIC

C3 259.052 VHL 16.095 CLA 8.72 RAL 11.69 RAD 6571.5 VEL 19.503 PTH 3.11 VHP 25.897 DPA -14.20 RAP 334.04 ECC 5.2633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 50 37 3044.05 -27.71 99.62 278.04 83.93 6 41 21 2444.0 -28.26 91.00
 90.00 20 0 36 5140.50 25.26 229.11 269.36 76.76 21 26 16 4540.5 23.19 221.05
 100.00 7 16 12 2768.02 -29.35 79.52 278.23 84.04 8 2 20 2168.0 -29.86 70.75
 100.00 21 17 42 4891.77 26.86 210.39 268.93 76.36 22 39 13 4291.8 24.72 202.25
 110.00 8 34 7 2524.21 -33.77 61.53 278.76 84.33 9 16 11 1924.2 -34.18 52.31
 110.00 22 16 16 4708.34 31.17 195.23 267.68 75.19 23 34 45 4108.3 28.82 186.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8285 TRA-2.0206 TC3 -.1215 BAU .4236 SGT 877.3 SGR 457.6 SG3 28.2 ST 367.1 SR 413.4 SS 357.2
 ROE-1.1490 RRA .5561 RC3 -.0138 FAU .01184 RRT -.0191 RRF .0176 RTF -.6465 CRT .7085 CRS .7828 CST .9922
 FDE .3879 FRA .7408 FC3 -.0396 BSP 1977 SGB 989.4 R23 -.0006 R13 .6465 LSA 616.6 MSA 229.9 SSA 14.2
 BDE 1.4165 BRA 2.0957 BC3 .1223 FSP -57 SG1 877.3 SG2 457.5 THA 179.22 EL1 511.7 EL2 209.3 ALF 49.77

LAUNCH DATE DEC 9 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 143.879

RL 147.33 LAL -.00 LOL 76.99 VL 18.195 GAL 22.95 AZL 86.57 HCA 46.04 SMA 90.25 ECC .70091 INC 3.4277 V1 30.241
 RP 107.48 LAP 2.47 LOP 122.97 VP 31.605 GAP -43.40 AZP 87.62 TAL 169.15 TAP 215.18 RCA 26.99 APO 153.50 V2 35.256
 RC 75.571 GL 3.73 GP .04 ZAL 61.66 ZAP 29.55 ETS 179.27 ZAE 135.85 ETE 188.43 ZAC 67.90 ETC 163.83 CLP 29.55

PLANETOCENTRIC CONIC

C3 237.085 VHL 15.398 CLA 9.50 RAL 12.72 RAD 6571.4 VEL 18.931 PTH 3.07 VHP 24.922 DPA -13.60 RAP 335.72 ECC 4.9018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 30 3057.36 -27.61 100.59 278.52 83.46 6 39 28 2457.4 -28.23 91.97
 90.00 20 10 55 5103.13 24.65 226.54 269.22 75.61 21 35 58 4503.1 22.43 218.57
 100.00 7 14 31 2779.97 -29.26 80.40 278.74 83.59 8 0 51 2180.0 -29.84 71.64
 100.00 21 27 35 4855.75 26.26 207.89 268.75 75.18 22 48 31 4255.8 23.96 199.84
 110.00 8 33 22 2533.20 -33.70 62.23 279.31 83.93 9 15 35 1933.2 -34.18 53.02
 110.00 22 25 13 4675.29 30.57 192.84 267.40 73.90 23 43 8 4075.3 28.06 184.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8029 TRA-2.0066 TC3 -.1244 BAU .3974 SGT 899.5 SGR 462.3 SG3 30.4 ST 375.5 SR 417.9 SS 370.7
 ROE-1.1112 RRA .5328 RC3 -.0156 FAU .01209 RRT -.0245 RRF .0183 RTF -.6657 CRT .7002 CRS .7826 CST .9909
 FDE .3999 FRA .7642 FC3 -.0441 BSP 2794 SGB 1011.4 R23 .0038 R13 .6657 LSA 630.2 MSA 235.9 SSA 14.2
 BDE 1.3709 BRA 2.0761 BC3 .1254 FSP -69 SG1 899.6 SG2 462.1 THA 179.02 EL1 518.6 EL2 216.0 ALF 49.35

LAUNCH DATE DEC 9 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 149.748

RL 147.33 LAL -.00 LOL 76.99 VL 18.857 GAL 21.94 AZL 86.58 HCA 49.28 SMA 91.78 ECC .67438 INC 3.4241 V1 30.241
 RP 107.48 LAP 2.59 LOP 126.22 VP 31.993 GAP -41.46 AZP 87.76 TAL 168.30 TAP 217.58 RCA 29.88 APO 153.67 V2 85.258
 RC 73.439 GL 4.07 GP .05 ZAL 60.49 ZAP 28.06 ETS 179.37 ZAE 136.13 ETE 188.93 ZAC 69.60 ETC 164.11 CLP 28.06

PLANETOCENTRIC CONIC

C3 217.102 VHL 14.734 CLA 10.27 RAL 13.70 RAD 6571.2 VEL 18.396 PTH 3.04 VHP 23.981 DPA -12.98 RAP 337.41 ECC 4.5730
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 46 12 3069.96 -27.51 101.49 278.91 83.01 6 37 22 2470.0 -28.19 92.89
 90.00 20 21 2 5065.27 23.99 223.97 269.02 74.48 21 45 27 4465.3 21.63 216.09
 100.00 7 12 38 2791.18 -29.17 81.22 279.14 83.17 7 59 9 2191.2 -29.81 72.47
 100.00 21 37 17 4819.28 25.60 205.38 268.52 74.01 22 57 36 4219.3 23.16 197.43
 110.00 8 32 27 2541.42 -33.64 62.86 279.75 83.56 9 14 49 1941.4 -34.17 53.66
 110.00 22 33 57 4641.80 29.91 190.45 267.06 72.62 23 51 19 4041.8 27.24 182.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8153 TRA-2.0302 TC3 -.1334 BAU .3906 SGT 948.1 SGR 466.2 SG3 32.9 ST 398.2 SR 421.6 SS 388.1
 ROE-1.0729 RRA .5100 RC3 -.0175 FAU .01216 RRT -.0207 RRF .0163 RTF -.6832 CRT .7013 CRS .7839 CST .9910
 FDE .4166 FRA .7923 FC3 -.0485 BSP 2714 SGB 1056.5 R23 .0023 R13 .6832 LSA 654.5 MSA 241.4 SSA 14.5
 BDE 1.3476 BRA 2.0932 BC3 .1346 FSP -74 SG1 948.1 SG2 466.1 THA 179.23 EL1 535.1 EL2 223.7 ALF 47.32

LAUNCH DATE DEC 9 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -.00 LOL 76.99 VL 19.477 GAL 20.98 AZL 86.58 HCA 52.53 SMA 93.31 ECC .64830 INC 3.4208 VI 30.241
 RP 107.48 LAP 2.71 LOP 129.47 VP 32.363 GAP -39.62 AZP 87.92 TAL 167.46 TAP 219.99 RCA 32.82 APO 153.81 V2 35.259
 RC 71.328 GL 4.41 GP .05 ZAL 59.36 ZAP 26.60 ETS 179.49 ZAE 136.51 ETE 189.47 ZAC 71.32 ETC 164.38 CLP 26.60

PLANETOCENTRIC CONIC
 C3 198.883 VHL 14.103 DLA 11.03 RAL 14.63 RAD 6571.1 VEL 17.894 PTH 3.00 VHP 23.071 DPA -12.34 RAP 339.12 ECC 4.2731
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 42 3081.82 -27.41 102.35 279.18 82.59 6 35 3 2481.8 -28.15 93.76
 90.00 20 30 58 5026.88 23.26 221.39 268.77 73.39 21 54 45 4426.9 20.77 213.60
 100.00 7 10 34 2801.63 -29.08 81.98 279.43 82.77 7 57 16 2201.6 -29.78 73.25
 100.00 21 46 46 4782.31 24.88 202.87 268.23 72.87 23 6 29 4182.3 22.30 195.02
 110.00 8 31 21 2548.85 -33.58 63.44 280.07 83.22 9 13 50 1948.8 -34.16 54.24
 110.00 22 42 29 4607.86 29.20 188.07 266.67 71.38 23 59 17 4007.9 26.38 180.02

DIFFERENTIAL CORRECTIONS
 TDE -.8224 TRA-2.0474 TC3 -.1417 BAU .3803 SGT 994.8 SGR 469.5 SG3 35.5 ST 420.0 SR 424.7 SS 405.4
 RDE -1.0347 RRA .4869 RC3 -.0196 FAU .01228 RRT -.0177 RRF .0143 RTF -.7002 CRT 7.013 CRS .7850 CST .9908
 FDE .4331 FRA .8203 FC3 -.0534 BSP 2771 SGB 1100.0 R23 .0016 R13 .7002 LSA 678.4 MSA 246.5 SSA 14.7
 BOE 1.3218 BRA 2.1045 BC3 .1430 FSP -80 SG1 994.8 SG2 469.4 THA 179.38 EL1 550.9 EL2 230.8 ALF 45.45

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 9 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -.00 LOL 76.99 VL 20.060 GAL 20.06 AZL 86.58 HCA 55.78 SMA 94.85 ECC .62273 INC 3.4178 VI 30.241
 RP 107.48 LAP 2.83 LOP 132.72 VP 32.717 GAP -37.86 AZP 88.08 TAL 166.64 TAP 222.42 RCA 35.78 APO 153.91 V2 35.259
 RC 69.241 GL 4.77 GP .05 ZAL 58.30 ZAP 25.15 ETS 179.60 ZAE 136.98 ETE 190.04 ZAC 73.06 ETC 164.63 CLP 25.15

PLANETOCENTRIC CONIC
 C3 182.257 VHL 13.500 DLA 11.78 RAL 15.51 RAD 6571.0 VEL 17.424 PTH 2.96 VHP 22.191 DPA -11.68 RAP 340.83 ECC 3.9995
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 40 58 3092.99 -27.31 103.15 279.35 82.20 6 32 31 2493.0 -28.11 94.57
 90.00 20 40 43 4987.94 22.48 218.80 268.47 72.32 22 3 50 4387.9 19.85 211.11
 100.00 7 8 18 2811.36 -29.00 82.69 279.61 82.41 7 55 9 2211.4 -29.75 73.97
 100.00 21 56 4 4744.80 24.10 200.35 267.89 71.77 23 15 9 4144.8 21.39 192.61
 110.00 8 30 4 2555.50 -33.53 63.95 280.29 82.92 9 12 39 1955.5 -34.15 54.76
 110.00 22 50 48 4573.43 28.42 185.69 266.23 70.16 24 7 1 3973.4 25.46 177.77

DIFFERENTIAL CORRECTIONS
 TDE -.8259 TRA-2.0601 TC3 -.1492 BAU .3675 SGT 1040.6 SGR 472.0 SG3 38.4 ST 441.4 SR 427.3 SS 422.8
 RDE -.9967 RRA .4637 RC3 -.0218 FAU .01244 RRT -.0154 RRF .0123 RTF -.7166 CRT 7.006 CRS .7862 CST .9905
 FDE .4498 FRA .8484 FC3 -.0591 BSP 2928 SGB 1142.7 R23 .0016 R13 .7166 LSA 702.0 MSA 251.2 SSA 14.9
 BOE 1.2944 BRA 2.1116 BC3 .1508 FSP -87 SG1 1040.7 SG2 472.0 THA 179.50 EL1 566.5 EL2 237.5 ALF 43.68

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 9 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -.00 LOL 76.99 VL 20.606 GAL 19.19 AZL 86.58 HCA 59.03 SMA 96.38 ECC .59775 INC 3.4150 VI 30.241
 RP 107.48 LAP 2.93 LOP 135.97 VP 33.054 GAP -36.19 AZP 88.24 TAL 165.83 TAP 224.86 RCA 38.77 APO 153.99 V2 35.258
 RC 67.184 GL 5.15 GP .05 ZAL 57.29 ZAP 23.71 ETS 179.72 ZAE 137.55 ETE 190.65 ZAC 74.81 ETC 164.87 CLP 23.71

PLANETOCENTRIC CONIC
 C3 167.076 VHL 12.926 DLA 12.52 RAL 16.34 RAD 6570.8 VEL 16.982 PTH 2.92 VHP 21.339 DPA -11.00 RAP 342.54 ECC 3.7497
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 1 3103.51 -27.21 103.90 279.41 81.84 6 29 45 2503.5 -28.06 95.34
 90.00 20 50 17 4948.39 21.64 216.20 268.11 71.28 22 12 45 4348.4 18.89 208.61
 100.00 7 5 48 2820.41 -28.92 83.35 279.68 82.07 7 52 49 2220.4 -29.71 74.64
 100.00 22 5 11 4706.73 23.27 197.83 267.50 70.69 23 23 38 4106.7 20.42 190.19
 110.00 8 28 34 2561.42 -33.48 64.40 280.39 82.66 9 11 16 1961.4 -34.13 55.22
 110.00 22 58 54 4538.49 27.59 183.31 265.74 68.97 24 14 33 3938.5 24.48 175.52

DIFFERENTIAL CORRECTIONS
 TDE -.8279 TRA-2.0702 TC3 -.1564 BAU .3534 SGT 1087.1 SGR 473.9 SG3 41.4 ST 463.0 SR 429.2 SS 440.7
 RDE -.9588 RRA .4405 RC3 -.0242 FAU .01263 RRT -.0131 RRF .0100 RTF -.7325 CRT .6998 CRS .7874 CST .9902
 FDE .4669 FRA .8770 FC3 -.0654 BSP 3129 SGB 1185.8 R23 .0018 R13 .7325 LSA 726.1 MSA 255.5 SSA 15.0
 BOE 1.2668 BRA 2.1165 BC3 .1582 FSP -96 SG1 1087.1 SG2 473.8 THA 179.60 EL1 582.4 EL2 243.7 ALF 41.91

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 9 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -.00 LOL 76.99 VL 21.118 GAL 18.35 AZL 86.59 HCA 62.28 SMA 97.90 ECC .57343 INC 3.4124 VI 30.241
 RP 107.48 LAP 3.02 LOP 139.22 VP 33.374 GAP -34.59 AZP 88.41 TAL 165.05 TAP 227.32 RCA 41.76 APO 154.03 V2 35.257
 RC 65.159 GL 5.53 GP .05 ZAL 56.33 ZAP 22.30 ETS 179.84 ZAE 138.23 ETE 191.29 ZAC 76.58 ETC 165.09 CLP 22.30

PLANETOCENTRIC CONIC
 C3 153.208 VHL 12.378 DLA 13.26 RAL 17.12 RAD 6570.7 VEL 16.569 PTH 2.88 VHP 20.515 DPA -10.31 RAP 344.27 ECC 3.5214
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 34 50 3113.43 -27.11 104.61 279.36 81.50 6 26 43 2513.4 -28.01 96.06
 90.00 20 59 42 4908.20 20.74 213.60 267.70 70.28 22 21 30 4308.2 17.86 206.11
 100.00 7 3 5 2828.81 -28.84 83.96 279.64 81.76 7 50 14 2228.8 -29.67 75.26
 100.00 22 14 8 4668.06 22.38 195.30 267.05 69.65 23 31 56 4068.1 19.40 187.77
 110.00 8 26 52 2566.62 -33.43 64.80 280.39 82.43 9 9 39 1966.6 -34.12 55.63
 110.00 23 6 50 4503.01 26.70 180.93 265.20 67.82 24 21 53 3903.0 23.46 173.27

DIFFERENTIAL CORRECTIONS
 TDE -.8302 TRA-2.0793 TC3 -.1632 BAU .3388 SGT 1135.2 SGR 475.0 SG3 44.8 ST 485.6 SR 430.5 SS 459.1
 RDE -.9211 RRA .4174 RC3 -.0268 FAU .01285 RRT -.0104 RRF .0073 RTF -.7477 CRT .6994 CRS .7888 CST .9899
 FDE .4847 FRA .9062 FC3 -.0726 BSP 3336 SGB 1230.6 R23 .0021 R13 .7477 LSA 751.3 MSA 259.3 SSA 15.2
 BOE 1.2400 BRA 2.1207 BC3 .1654 FSP -105 SG1 1135.2 SG2 474.9 THA 179.70 EL1 599.1 EL2 249.4 ALF 40.10

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 9 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 180.432

RL 147.33 LAL -.00 LOL 76.99 VL 21.598 GAL 17.55 AZL 86.59 HCA 65.52 SMA 99.40 ECC .54981 INC 3.4099 V1 30.241
 RP 107.49 LAP 3.10 LOP 142.47 VP 33.677 GAP -33.06 AZP 88.59 TAL 164.29 TAP 229.81 RCA 44.75 APO 154.05 V2 35.254
 RC 63.173 GL 5.93 GP .05 ZAL 55.43 ZAP 20.89 ETS 179.96 ZAE 139.02 ETE 191.99 ZAC 78.36 ETC 165.30 CLP 20.89

PLANETOCENTRIC CONIC

C3 140.534 VHL 11.855 DLA 13.98 RAL 17.85 RAD 6570.5 VEL 16.182 PTH 2.84 VHP 19.716 DPA -9.61 RAP 346.00 ECC 3.3128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 31 23 3122.82 -27.02 105.28 279.20 81.17 6 23 26 2522.8 -27.96 96.74
 90.00 21 8 58 4867.34 19.78 210.99 267.24 69.31 22 30 6 4267.3 16.79 203.59
 100.00 7 0 7 2836.62 -28.76 84.53 279.50 81.47 7 47 24 2236.6 -29.64 75.84
 100.00 22 22 55 4628.78 21.42 192.77 266.56 68.64 23 40 4 4028.8 18.33 185.34
 110.00 8 24 58 2571.16 -33.39 65.15 280.28 82.22 9 7 49 1971.2 -34.11 55.98
 110.00 23 14 34 4467.00 25.76 178.56 264.62 66.71 24 29 1 3867.0 22.38 171.03

DIFFERENTIAL CORRECTIONS

TDE -.8355 TRA-2.0897 TC3 -.1706 BAU .3253
 RDE -.8836 RRA .3944 RC3 -.0296 FAU .01308
 FDE .5038 FRA .9366 FC3 -.0806 BSP 3480
 BOE 1.2161 BRA 2.1266 BC3 .1732 FSP -115

MID-COURSE EXECUTION ACCURACY

SGT 1187.4 SGR 475.3 SG3 48.4
 RRT -.0064 RRF .0040 RTF -.7620
 SGB 1279.0 R23 .0017 R13 .7620
 SG1 1187.5 SG2 475.3 THA 179.83

ORBIT DETERMINATION ACCURACY

ST 510.6 SR 431.1 SS 478.5
 CRT .7000 CRS .7905 CST .9897
 LSA 778.8 MSA 262.4 SSA 15.4
 EL1 617.9 EL2 254.4 ALF 38.17

LAUNCH DATE DEC 9 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 186.794

RL 147.33 LAL -.00 LOL 76.99 VL 22.049 GAL 16.79 AZL 86.59 HCA 68.77 SMA 100.89 ECC .52692 INC 3.4076 V1 30.241
 RP 107.50 LAP 3.18 LOP 145.72 VP 33.965 GAP -31.60 AZP 88.76 TAL 163.55 TAP 232.32 RCA 47.73 APO 154.04 V2 35.251
 RC 61.231 GL 6.34 GP .06 ZAL 54.58 ZAP 19.50 ETS 180.09 ZAE 139.92 ETE 192.75 ZAC 80.16 ETC 165.50 CLP 19.50

PLANETOCENTRIC CONIC

C3 128.947 VHL 11.355 DLA 14.70 RAL 18.53 RAD 6570.4 VEL 15.820 PTH 2.80 VHP 18.942 DPA -8.89 RAP 347.73 ECC 3.1221
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 27 40 3131.72 -26.92 105.92 278.94 80.87 6 19 52 2531.7 -27.91 97.39
 90.00 21 18 6 4825.78 18.76 208.37 266.73 68.39 22 38 32 4225.8 15.66 201.06
 100.00 6 56 55 2843.90 -28.68 85.06 279.26 81.20 7 44 19 2243.9 -29.60 76.38
 100.00 22 31 33 4588.84 20.41 190.24 266.02 67.68 23 48 1 3988.8 17.21 182.91
 110.00 8 22 50 2575.08 -33.36 65.45 280.06 82.05 9 5 45 1975.1 -34.09 56.29
 110.00 23 22 7 4430.43 24.75 176.20 264.00 65.63 24 35 57 3830.4 21.25 168.80

DIFFERENTIAL CORRECTIONS

TDE -.8386 TRA-2.0963 TC3 -.1770 BAU .3103
 RDE -.8465 RRA .3717 RC3 -.0326 FAU .01336
 FDE .5234 FRA .9675 FC3 -.0897 BSP 3689
 BOE 1.1916 BRA 2.1290 BC3 .1800 FSP -126

MID-COURSE EXECUTION ACCURACY

SGT 1239.5 SGR 474.9 SG3 52.3
 RRT -.0026 RRF .0004 RTF -.7758
 SGB 1327.4 R23 .0019 R13 .7758
 SG1 1239.5 SG2 474.9 THA 179.93

ORBIT DETERMINATION ACCURACY

ST 535.5 SR 431.1 SS 498.3
 CRT .7003 CRS .7922 CST .9895
 LSA 806.5 MSA 264.9 SSA 15.5
 EL1 636.9 EL2 258.7 ALF 36.33

LAUNCH DATE DEC 9 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 193.218

RL 147.33 LAL -.00 LOL 76.99 VL 22.471 GAL 16.05 AZL 86.59 HCA 72.02 SMA 102.35 ECC .50479 INC 3.4053 V1 30.241
 RP 107.51 LAP 3.24 LOP 148.98 VP 34.237 GAP -30.19 AZP 88.95 TAL 162.84 TAP 234.85 RCA 50.68 APO 154.01 V2 35.248
 RC 59.338 GL 6.77 GP .06 ZAL 53.79 ZAP 18.11 ETS 180.22 ZAE 140.94 ETE 193.56 ZAC 81.96 ETC 165.68 CLP 18.11

PLANETOCENTRIC CONIC

C3 118.353 VHL 10.879 DLA 15.41 RAL 19.16 RAD 6570.2 VEL 15.482 PTH 2.76 VHP 18.192 DPA -8.16 RAP 349.46 ECC 2.9478
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 23 39 3140.23 -26.83 106.52 278.58 80.58 6 16 0 2540.2 -27.86 98.01
 90.00 21 27 7 4783.50 17.68 205.73 266.18 67.51 22 46 51 4183.5 14.48 198.52
 100.00 6 53 26 2850.71 -28.61 85.55 278.91 80.95 7 40 57 2250.7 -29.57 76.88
 100.00 22 40 2 4548.26 19.34 187.70 265.44 66.76 23 55 50 3948.3 16.03 180.47
 110.00 8 20 27 2578.42 -33.32 65.70 279.74 81.90 9 3 26 1978.4 -34.08 56.55
 110.00 23 29 30 4393.31 23.69 173.84 263.33 64.60 24 42 43 3793.3 20.07 166.56

DIFFERENTIAL CORRECTIONS

TDE -.8416 TRA-2.1010 TC3 -.1828 BAU .2947
 RDE -.8099 RRA .3492 RC3 -.0358 FAU .01368
 FDE .5441 FRA .9995 FC3 -.1000 BSP 3909
 BOE 1.1680 BRA 2.1299 BC3 -.1862 FSP -138

MID-COURSE EXECUTION ACCURACY

SGT 1293.1 SGR 473.7 SG3 56.5
 RRT .0017 RRF -.0036 RTF -.7890
 SGB 1377.1 R23 -.0021 R13 -.7890
 SG1 1293.1 SG2 473.7 THA .04

ORBIT DETERMINATION ACCURACY

ST 561.4 SR 430.3 SS 518.9
 CRT .7011 CRS .7942 CST .9892
 LSA 835.6 MSA 266.9 SSA 15.6
 EL1 657.0 EL2 262.2 ALF 34.50

LAUNCH DATE DEC 9 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 199.699

RL 147.33 LAL -.00 LOL 76.99 VL 22.867 GAL 15.35 AZL 86.60 HCA 75.26 SMA 103.79 ECC .48345 INC 3.4032 V1 30.241
 RP 107.52 LAP 3.29 LOP 152.23 VP 34.494 GAP -28.84 AZP 89.13 TAL 162.15 TAP 237.41 RCA 53.61 APO 153.96 V2 35.243
 RC 57.501 GL 7.21 GP .06 ZAL 53.05 ZAP 16.73 ETS 180.36 ZAE 142.09 ETE 194.46 ZAC 83.77 ETC 165.85 CLP 16.73

PLANETOCENTRIC CONIC

C3 108.667 VHL 10.424 DLA 16.11 RAL 19.73 RAD 6570.1 VEL 15.166 PTH 2.72 VHP 17.466 DPA -7.42 RAP 351.19 ECC 2.7884
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 19 21 3148.43 -26.73 107.10 278.11 80.30 6 11 49 2548.4 -27.80 98.60
 90.00 21 36 2 4740.47 16.54 203.09 265.59 66.68 22 55 3 4140.5 13.24 195.96
 100.00 6 49 41 2857.13 -28.54 86.02 278.46 80.71 7 37 18 2257.1 -29.53 77.35
 100.00 22 48 23 4507.00 18.21 185.16 264.82 65.88 24 3 30 3907.0 14.80 178.02
 110.00 8 17 51 2581.26 -33.30 65.92 279.31 81.78 9 0 52 1981.3 -34.07 56.77
 110.00 23 36 43 4355.64 22.57 171.49 262.63 63.62 24 49 18 3755.6 18.84 164.33

DIFFERENTIAL CORRECTIONS

TDE -.8478 TRA-2.1070 TC3 -.1890 BAU .2803
 RDE -.7736 RRA .3271 RC3 -.0391 FAU .01401
 FDE .5665 FRA 1.0329 FC3 -.1116 BSP 4066
 BOE 1.1477 BRA 2.1322 BC3 .1930 FSP -151

MID-COURSE EXECUTION ACCURACY

SGT 1351.1 SGR 471.7 SG3 61.1
 RRT .0075 RRF -.0085 RTF -.8013
 SGB 1431.0 R23 -.0017 R13 -.8013
 SG1 1351.1 SG2 471.7 THA .17

ORBIT DETERMINATION ACCURACY

ST 590.0 SR 428.9 SS 540.8
 CRT .7029 CRS .7965 CST .9891
 LSA 867.4 MSA 268.1 SSA 15.8
 EL1 679.6 EL2 264.8 ALF 32.62

LAUNCH DATE DEC 9 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 206.231

RL 147.33 LAL -.00 LOL 76.99 VL 23.238 GAL 14.67 AZL 86.60 MCA 78.51 SMA 105.20 ECC .46290 INC 3.4011 VI 30.241
 RP 107.54 LAP 3.33 LOP 155.48 VP 34.736 GAP -27.55 AZP 89.32 TAL 161.50 TAP 240.00 RCA 56.50 APO 153.89 V2 35.238
 RC 55.726 GL 7.67 GP .06 ZAL 52.37 ZAP 15.36 ETS 180.50 ZAE 143.36 ETE 195.44 ZAC 85.58 ETC 166.00 CLP 15.36

PLANETOCENTRIC CONIC

C3 99.811 VHL 9.991 CLA 16.81 RAL 20.26 RAD 6569.9 VEL 14.871 PTH 2.68 VHP 16.762 DPA -6.67 RAP 352.92 ECC 2.6426
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 43 3156.40 -26.64 107.67 277.55 80.03 6 7 19 2556.4 -27.75 99.18
 90.00 21 44 51 4696.68 15.34 200.44 264.97 65.90 23 3 8 4096.7 11.96 193.39
 100.00 6 45 37 2863.24 -28.47 86.46 277.91 80.49 7 33 20 2263.2 -29.49 77.80
 100.00 22 56 38 4465.08 17.03 182.61 264.16 65.06 24 11 3 3865.1 13.53 175.57
 110.00 8 14 59 2583.64 -33.27 66.10 278.78 81.67 8 58 3 1983.6 -34.07 56.95
 110.00 23 43 46 4317.44 21.39 169.14 261.90 62.68 24 55 43 3717.4 17.56 162.11

DIFFERENTIAL CORRECTIONS

TDE -.8520 TRA-2.1088 TC3 -.1936 BAU .2645
 RDE -.7380 RRA .3053 RC3 -.0427 FAU .01440
 FDE .5899 FRA 1.0673 FC3 -.1249 BSP 4286
 BDE 1.1272 BRA 2.1308 BC3 .1982 FSP -165

MID-COURSE EXECUTION ACCURACY

SGT 1408.7 SGR 468.9 SG3 66.1
 RRT .0132 RRF -.0138 RTF -.8132
 SGB 1484.7 R23 -.0017 R13 -.8132
 SG1 1408.8 SG2 468.8 THA .28

ORBIT DETERMINATION ACCURACY

ST 618.5 SR 426.8 SS 563.3
 CRT .7048 CRS .7990 CST .9889
 LSA 899.8 MSA 268.6 SSA 15.9
 EL1 702.6 EL2 266.5 ALF 30.84

LAUNCH DATE DEC 9 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 212.808

RL 147.33 LAL -.00 LOL 76.99 VL 23.586 GAL 14.02 AZL 86.60 MCA 81.75 SMA 106.57 ECC .44316 INC 3.3990 VI 30.241
 RP 107.56 LAP 3.36 LOP 158.72 VP 34.964 GAP -26.30 AZP 89.51 TAL 160.87 TAP 242.62 RCA 59.34 APO 153.80 V2 35.232
 RC 54.021 GL 8.14 GP .07 ZAL 51.75 ZAP 13.99 ETS 180.65 ZAE 144.76 ETE 196.53 ZAC 87.40 ETC 166.14 CLP 13.99

PLANETOCENTRIC CONIC

C3 91.715 VHL 9.577 CLA 17.51 RAL 20.73 RAD 6569.8 VEL 14.597 PTH 2.65 VHP 16.079 DPA -5.92 RAP 354.65 ECC 2.5094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 9 44 3164.27 -26.55 108.23 276.89 79.77 6 2 28 2564.3 -27.69 99.75
 90.00 21 53 36 4652.11 14.08 197.77 264.30 65.18 23 11 8 4052.1 10.62 190.80
 100.00 6 41 15 2869.13 -28.41 86.88 277.26 80.28 7 29 4 2269.1 -29.46 78.24
 100.00 23 4 46 4422.49 15.79 180.05 263.47 64.28 24 18 28 3822.5 12.20 173.10
 110.00 8 11 51 2585.65 -33.25 66.26 278.16 81.58 8 54 57 1985.7 -34.06 57.11
 110.00 23 50 39 4278.72 20.16 166.81 261.13 61.79 25 1 58 3678.7 16.24 159.89

DIFFERENTIAL CORRECTIONS

TDE -.8564 TRA-2.1085 TC3 -.1973 BAU .2485
 RDE -.7029 RRA .2840 RC3 -.0464 FAU .01483
 FDE .6149 FRA 1.1030 FC3 -.1400 BSP 4510
 BDE 1.1079 BRA 2.1276 BC3 .2027 FSP -181

MID-COURSE EXECUTION ACCURACY

SGT 1468.0 SGR 465.3 SG3 71.6
 RRT .0196 RRF -.0197 RTF -.8245
 SGB 1539.9 R23 -.0018 R13 -.8245
 SG1 1468.0 SG2 465.2 THA .39

ORBIT DETERMINATION ACCURACY

ST 648.2 SR 423.9 SS 587.0
 CRT .7071 CRS .8017 CST .9888
 LSA 933.8 MSA 268.5 SSA 16.0
 EL1 726.9 EL2 267.3 ALF 29.13

LAUNCH DATE DEC 9 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 219.427

RL 147.33 LAL -.00 LOL 76.99 VL 23.912 GAL 13.40 AZL 86.60 MCA 84.99 SMA 107.91 ECC .42423 INC 3.3970 VI 30.241
 RP 107.58 LAP 3.38 LOP 161.97 VP 35.178 GAP -25.10 AZP 89.70 TAL 160.28 TAP 245.28 RCA 62.13 APO 153.69 V2 35.226
 RC 52.393 GL 8.63 GP .07 ZAL 51.18 ZAP 12.63 ETS 180.80 ZAE 146.30 ETE 197.76 ZAC 89.22 ETC 166.26 CLP 12.63

PLANETOCENTRIC CONIC

C3 84.316 VHL 9.182 CLA 18.19 RAL 21.15 RAD 6569.7 VEL 14.341 PTH 2.61 VHP 15.418 DPA -5.16 RAP 356.37 ECC 2.3876
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 23 3172.14 -26.45 108.78 276.14 79.51 5 57 15 2572.1 -27.63 100.31
 90.00 22 2 18 4606.76 12.77 195.08 263.61 64.51 23 19 5 4006.8 9.23 188.19
 100.00 6 36 33 2874.90 -28.34 87.30 276.52 80.07 7 24 28 2274.9 -29.42 78.66
 100.00 23 12 49 4379.23 14.49 177.49 262.75 63.57 24 25 48 3779.2 10.83 170.62
 110.00 8 8 27 2587.37 -33.24 66.39 277.45 81.51 8 51 35 1987.4 -34.05 57.24
 110.00 0 1 20 4239.52 18.89 164.49 260.34 60.96 1 11 59 3639.5 14.87 157.68

DIFFERENTIAL CORRECTIONS

TDE -.8610 TRA-2.1061 TC3 -.1998 BAU .2322
 RDE -.6684 RRA .2633 RC3 -.0503 FAU .01531
 FDE .6417 FRA 1.1403 FC3 -.1572 BSP 4742
 BDE 1.0900 BRA 2.1225 BC3 .2060 FSP -198

MID-COURSE EXECUTION ACCURACY

SGT 1528.7 SGR 460.9 SG3 77.5
 RRT .0266 RRF -.0263 RTF -.8352
 SGB 1596.6 R23 -.0018 R13 -.8352
 SG1 1528.7 SG2 460.7 THA .51

ORBIT DETERMINATION ACCURACY

ST 679.0 SR 420.3 SS 611.8
 CRT .7099 CRS .8047 CST .9887
 LSA 969.6 MSA 267.6 SSA 16.1
 EL1 752.5 EL2 267.1 ALF 27.47

LAUNCH DATE DEC 9 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 226.080

RL 147.33 LAL -.00 LOL 76.99 VL 24.217 GAL 12.81 AZL 86.60 MCA 88.23 SMA 109.22 ECC .40611 INC 3.3951 VI 30.241
 RP 107.60 LAP 3.39 LOP 165.22 VP 35.379 GAP -23.95 AZP 89.90 TAL 159.73 TAP 247.96 RCA 64.86 APO 153.57 V2 35.219
 RC 50.852 GL 9.14 GP .08 ZAL 50.67 ZAP 11.26 ETS 180.97 ZAE 147.98 ETE 199.14 ZAC 91.03 ETC 166.37 CLP 11.26

PLANETOCENTRIC CONIC

C3 77.556 VHL 8.807 CLA 18.88 RAL 21.52 RAD 6569.5 VEL 14.103 PTH 2.57 VHP 14.777 DPA -4.39 RAP 358.09 ECC 2.2764
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 38 3180.14 -26.35 109.35 275.30 79.24 5 51 39 2580.1 -27.57 100.89
 90.00 22 10 58 4560.61 11.40 192.38 262.89 63.90 23 26 58 3960.6 7.80 185.55
 100.00 6 31 31 2880.66 -28.27 87.72 275.70 79.86 7 19 31 2280.7 -29.38 79.09
 100.00 23 20 47 4335.33 13.15 174.93 261.99 62.91 24 33 2 3735.3 9.41 168.13
 110.00 8 4 46 2588.87 -33.22 66.50 276.65 81.44 8 47 55 1988.9 -34.05 57.36
 110.00 0 7 56 4199.88 17.56 162.18 259.52 60.19 1 17 56 3599.9 13.46 155.47

DIFFERENTIAL CORRECTIONS

TDE -.8662 TRA-2.1019 TC3 -.2010 BAU .2159
 RDE -.6347 RRA .2430 RC3 -.0543 FAU .01585
 FDE .6706 FRA 1.1794 FC3 -.1769 BSP 4973
 BDE 1.0739 BRA 2.1159 BC3 .2082 FSP -217

MID-COURSE EXECUTION ACCURACY

SGT 1591.1 SGR 455.6 SG3 84.0
 RRT .0346 RRF -.0337 RTF -.8453
 SGB 1655.1 R23 -.0018 R13 -.8453
 SG1 1591.2 SG2 455.3 THA .62

ORBIT DETERMINATION ACCURACY

ST 711.1 SR 416.0 SS 637.9
 CRT .7133 CRS .8081 CST .9886
 LSA 1007.3 MSA 266.0 SSA 16.1
 EL1 779.8 EL2 265.9 ALF 25.88

LAUNCH DATE DEC 9 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -0.00 LOL 76.99 VL 24.502 GAL 12.24 AZL 86.61 MCA 91.47 SMA 110.48 ECC .38879 INC 3.3931 V1 30.241
 RP 107.62 LAP 3.39 LOP 168.47 VP 35.567 GAP -22.83 AZP 90.09 TAL 159.20 TAP 250.68 RCA 67.53 APO 153.43 V2 35.211
 RC 49.405 GL 9.66 GP .08 ZAL 50.22 ZAP 9.89 ETS 181.16 ZAE 149.79 ETE 200.72 ZAC 92.84 ETC 166.46 CLP 9.89

DISTANCE 232.765

PLANETOCENTRIC CONIC
 C3 71.382 VHL 8.449 DLA 19.56 RAL 21.83 RAD 6569.4 VEL 13.883 PTH 2.53 VHP 14.156 DPA -3.62 RAP 359.79 ECC 2.1748
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 29 3188.42 -26.24 109.93 274.37 78.97 5 45 37 2588.4 -27.50 101.49
 90.00 22 19 37 4513.66 9.98 189.66 262.14 63.36 23 34 50 3913.7 6.33 182.89
 100.00 6 26 6 2886.53 -28.20 88.14 274.79 79.65 7 14 13 2286.5 -29.34 79.52
 100.00 23 28 41 4290.78 11.75 172.36 261.22 62.32 24 40 12 3690.8 7.96 165.63
 110.00 8 0 48 2590.25 -33.21 66.61 275.76 81.38 8 43 58 1990.2 -34.04 57.47
 110.00 0 14 24 4159.82 16.19 159.88 258.67 59.47 1 23 44 3559.8 12.02 153.26

MID-COURSE EXECUTION ACCURACY
 SGT 1655.0 SGR 449.6 SG3 91.1
 RRT .0435 RRF -.0419 RTF -.8549
 SGB 1715.0 R23 -.0018 R13 -.8549
 SGI 1655.1 SG2 449.1 THA .73

ORBIT DETERMINATION ACCURACY
 ST 744.6 SR 411.0 SS 665.5
 CRT .7175 CRS .8117 CST .9886
 LSA 1047.2 MSA 263.6 SSA 16.2
 EL1 808.6 EL2 263.6 ALF 24.36

DIFFERENTIAL CORRECTIONS
 TOE -.8720 TRA-2.0955 TC3 -.2007 BAU .1995
 RDE -.6018 RRA .2233 RC3 -.0583 FAU .01644
 FDE .7019 FRA 1.2204 FC3 -.1994 BSP 5208
 BOE 1.0595 BRA 2.1074 BC3 .2090 FSP -238

LAUNCH DATE DEC 9 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -0.00 LOL 76.99 VL 24.769 GAL 11.69 AZL 86.61 MCA 94.71 SMA 111.70 ECC .37226 INC 3.3911 V1 30.241
 RP 107.65 LAP 3.38 LOP 171.71 VP 35.743 GAP -21.76 AZP 90.28 TAL 158.72 TAP 253.43 RCA 70.12 APO 153.28 V2 35.202
 RC 48.064 GL 10.19 GP .08 ZAL 49.82 ZAP 8.51 ETS 181.38 ZAE 151.74 ETE 202.56 ZAC 94.65 ETC 166.53 CLP 8.51

DISTANCE 239.477

PLANETOCENTRIC CONIC
 C3 65.746 VHL 8.108 DLA 20.23 RAL 22.09 RAD 6569.2 VEL 13.678 PTH 2.50 VHP 13.555 DPA -2.85 RAP 1.49 ECC 2.0820
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 53 3197.13 -26.13 110.54 273.37 78.68 5 39 10 2597.1 -27.43 102.12
 90.00 22 28 17 4465.88 8.51 186.92 261.38 62.89 23 42 43 3865.9 4.81 180.20
 100.00 6 20 19 2892.63 -28.12 88.57 273.80 79.43 7 8 31 2292.6 -29.30 79.97
 100.00 23 36 32 4245.61 10.31 169.78 260.42 61.79 24 47 18 3645.6 6.46 163.11
 110.00 7 56 32 2591.59 -33.19 66.71 274.80 81.32 8 39 44 1991.6 -34.04 57.57
 110.00 0 20 44 4119.41 14.78 157.60 257.81 58.82 1 29 24 3519.4 10.54 151.06

MID-COURSE EXECUTION ACCURACY
 SGT 1719.8 SGR 442.7 SG3 98.9
 RRT .0533 RRF -.0511 RTF -.8640
 SGB 1775.9 R23 -.0018 R13 -.8640
 SGI 1720.0 SG2 442.1 THA .84

ORBIT DETERMINATION ACCURACY
 ST 779.1 SR 405.2 SS 694.7
 CRT .7220 CRS .8157 CST .9886
 LSA 1088.9 MSA 260.6 SSA 16.3
 EL1 838.7 EL2 260.5 ALF 22.92

DIFFERENTIAL CORRECTIONS
 TOE -.8777 TRA-2.0867 TC3 -.1985 BAU .1829
 RDE -.5697 RRA .2043 RC3 -.0625 FAU .01710
 FDE .7356 FRA 1.2636 FC3 -.2252 BSP 5454
 BOE 1.0464 BRA 2.0966 BC3 .2081 FSP -261

LAUNCH DATE DEC 9 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -0.00 LOL 76.99 VL 25.019 GAL 11.16 AZL 86.61 MCA 97.95 SMA 112.88 ECC .35652 INC 3.3891 V1 30.241
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.908 GAP -20.73 AZP 90.47 TAL 158.27 TAP 256.22 RCA 72.64 APO 153.13 V2 35.194
 RC 46.839 GL 10.74 GP .09 ZAL 49.48 ZAP 7.13 ETS 181.64 ZAE 153.81 ETE 204.73 ZAC 96.44 ETC 166.59 CLP 7.13

DISTANCE 246.211

PLANETOCENTRIC CONIC
 C3 60.603 VHL 7.785 DLA 20.91 RAL 22.29 RAD 6569.1 VEL 13.489 PTH 2.47 VHP 12.972 DPA -2.09 RAP 3.18 ECC 1.9974
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 48 3206.44 -26.00 111.19 272.28 78.38 5 32 14 2606.4 -27.35 102.78
 90.00 22 37 0 4417.25 6.99 184.16 260.59 62.49 23 50 37 3817.3 3.25 177.47
 100.00 6 14 7 2899.09 -28.04 89.04 272.74 79.20 7 2 26 2299.1 -29.25 80.44
 100.00 23 44 22 4199.84 8.83 167.19 259.61 61.32 24 54 22 3599.8 4.93 160.57
 110.00 7 51 57 2592.99 -33.18 66.82 273.76 81.26 8 35 10 1993.0 -34.03 57.68
 110.00 0 26 57 4078.70 13.33 155.34 256.93 58.23 1 34 56 3478.7 9.03 148.87

MID-COURSE EXECUTION ACCURACY
 SGT 1786.4 SGR 435.1 SG3 107.4
 RRT .0642 RRF -.0612 RTF -.8726
 SGB 1838.7 R23 -.0017 R13 -.8726
 SGI 1786.7 SG2 434.2 THA .95

ORBIT DETERMINATION ACCURACY
 ST 815.3 SR 398.8 SS 725.7
 CRT .7274 CRS .8200 CST .9887
 LSA 1133.2 MSA 256.9 SSA 16.3
 EL1 870.7 EL2 256.3 ALF 21.54

DIFFERENTIAL CORRECTIONS
 TOE -.8845 TRA-2.0762 TC3 -.1945 BAU .1666
 RDE -.5385 RRA .1859 RC3 -.0667 FAU .01784
 FDE .7725 FRA 1.3094 FC3 -.2548 BSP 5691
 BOE 1.0356 BRA 2.0846 BC3 .2056 FSP -286

LAUNCH DATE DEC 9 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -0.00 LOL 76.99 VL 25.252 GAL 10.66 AZL 86.61 MCA 101.18 SMA 114.02 ECC .34155 INC 3.3870 V1 30.241
 RP 107.71 LAP 3.32 LOP 178.19 VP 36.061 GAP -19.73 AZP 90.66 TAL 157.86 TAP 259.05 RCA 75.08 APO 152.96 V2 35.184
 RC 45.742 GL 11.31 GP .10 ZAL 49.20 ZAP 5.73 ETS 181.98 ZAE 155.99 ETE 207.33 ZAC 98.22 ETC 166.63 CLP 5.73

DISTANCE 252.963

PLANETOCENTRIC CONIC
 C3 55.913 VHL 7.477 DLA 21.57 RAL 22.44 RAD 6569.0 VEL 13.314 PTH 2.43 VHP 12.408 DPA -1.32 RAP 4.85 ECC 1.9202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 12 3216.54 -25.86 111.90 271.12 78.05 5 24 48 2616.5 -27.25 103.51
 90.00 22 45 49 4367.74 5.43 181.36 259.80 62.17 23 58 36 3767.7 1.66 174.71
 100.00 6 7 29 2906.05 -27.95 89.54 271.60 78.95 6 55 55 2306.0 -29.19 80.95
 100.00 23 52 12 4153.47 7.30 164.59 258.78 60.93 25 1 26 3553.5 3.37 158.01
 110.00 7 47 4 2594.53 -33.16 66.93 272.66 81.19 8 30 18 1994.5 -34.02 57.80
 110.00 0 33 3 4037.75 11.85 153.09 256.04 57.70 1 40 21 3437.8 7.50 146.69

MID-COURSE EXECUTION ACCURACY
 SGT 1853.6 SGR 426.7 SG3 116.8
 RRT .0762 RRF -.0725 RTF -.8807
 SGB 1902.1 R23 -.0016 R13 -.8807
 SGI 1853.9 SG2 425.4 THA 1.06

ORBIT DETERMINATION ACCURACY
 ST 852.5 SR 391.7 SS 758.5
 CRT .7333 CRS .8246 CST .9888
 LSA 1179.6 MSA 252.5 SSA 16.4
 EL1 903.9 EL2 251.2 ALF 20.25

DIFFERENTIAL CORRECTIONS
 TOE -.8914 TRA-2.0633 TC3 -.1882 BAU .1503
 RDE -.5083 RRA .1681 RC3 -.0708 FAU .01865
 FDE .8127 FRA 1.3579 FC3 -.2888 BSP 5934
 BOE 1.0261 BRA 2.0702 BC3 .2010 FSP -314

LAUNCH DATE DEC 9 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 259.730

RL 147.33 LAL -1.00 LOL 76.99 VL 25.469 GAL 10.18 AZL 86.62 HCA 104.42 SMA 115.11 ECC .32733 INC 3.3850 V1 30.241
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.204 GAP -18.76 AZP 90.84 TAL 157.49 TAP 261.91 RCA 77.43 APO 152.79 V2 35.174
 RC 44.782 GL 11.89 GP .10 ZAL 48.98 ZAP 4.32 ETS 182.49 ZAE 158.25 ETE 210.50 ZAC 99.98 ETC 166.66 CLP 4.32

PLANETOCENTRIC CONIC

C3 51.638 VHL 7.186 DLA 22.23 RAL 22.54 RAD 6568.9 VEL 13.153 PTH 2.40 VHP 11.862 DPA -.56 RAP 6.51 ECC 1.8498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 23 2 3227.64 -25.70 112.68 269.90 77.69 5 16 50 2627.6 -27.14 104.30
 90.00 22 54 45 4317.30 3.82 178.53 259.00 61.92 24 6 42 3717.3 .03 171.90
 100.00 6 0 25 2913.66 -27.85 90.08 270.40 78.68 6 48 59 2313.7 -29.13 81.51
 100.00 0 3 59 4106.52 5.74 161.98 257.94 60.61 1 12 25 3506.5 1.78 155.43
 110.00 7 41 51 2596.32 -33.14 67.07 271.50 81.11 8 25 7 1996.3 -34.02 57.94
 110.00 0 39 2 3996.62 10.35 150.85 255.14 57.24 1 45 39 3396.6 5.96 144.51

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8990 TRA-2.0483 TC3 -.1795 BAU .1342
 RDE -.4789 RRA .1511 RC3 -.0748 FAU .01955
 FDE .8568 FRA 1.4097 FC3 -.3278 BSP 6176
 BDE 1.0186 BRA 2.0539 BC3 .1945 FSP -344

SGT 1921.8 SGR 417.5 SG3 127.1
 RRT .0896 RRF -.0850 RTF -.8882
 SGB 1966.6 R23 -.0015 R13 -.8883
 SG1 1922.2 SG2 415.8 THA 1.17

ST 891.1 SR 383.9 SS 793.6
 CRT .7399 CRS .8296 CST .9890
 LSA 1228.7 MSA 247.4 SSA 16.4
 EL1 938.8 EL2 245.1 ALF 19.03

LAUNCH DATE DEC 9 1968

FLIGHT TIME 112.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 266.507

RL 147.33 LAL -1.00 LOL 76.99 VL 25.672 GAL 9.73 AZL 86.62 HCA 107.65 SMA 116.15 ECC .31386 INC 3.3828 V1 30.241
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.337 GAP -17.83 AZP 91.03 TAL 157.16 TAP 264.81 RCA 79.70 APO 152.61 V2 35.164
 RC 43.971 GL 12.48 GP .11 ZAL 48.81 ZAP 2.90 ETS 183.41 ZAE 160.56 ETE 214.47 ZAC 101.73 ETC 166.67 CLP 2.89

PLANETOCENTRIC CONIC

C3 47.744 VHL 6.910 DLA 22.89 RAL 22.58 RAD 6568.8 VEL 13.004 PTH 2.37 VHP 11.333 DPA .19 RAP 8.15 ECC 1.7857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 16 3239.99 -25.52 113.53 268.61 77.30 5 8 16 2640.0 -27.02 105.19
 90.00 23 3 52 4265.85 2.16 175.65 258.19 61.76 24 14 58 3665.8 -1.63 169.03
 100.00 5 52 52 2922.07 -27.74 90.68 269.15 78.39 6 41 34 2322.1 -29.06 82.12
 100.00 0 11 53 4058.99 4.15 159.35 257.09 60.37 1 19 32 3459.0 .17 152.82
 110.00 7 36 19 2598.44 -33.12 67.23 270.28 81.02 8 19 37 1998.4 -34.01 58.10
 110.00 0 44 55 3955.39 8.82 148.64 254.22 56.84 1 50 51 3355.4 4.39 142.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9076 TRA-2.0312 TC3 -.1678 BAU .1183
 RDE -.4506 RRA .1347 RC3 -.0787 FAU .02056
 FDE .9054 FRA 1.4651 FC3 -.3727 BSP 6411
 BDE 1.0133 BRA 2.0357 BC3 .1854 FSP -378

SGT 1990.7 SGR 407.6 SG3 138.5
 RRT .1045 RRF -.0989 RTF -.8954
 SGB 2032.0 R23 -.0013 R13 -.8955
 SG1 1991.1 SG2 405.3 THA 1.28

ST 931.2 SR 375.4 SS 831.1
 CRT .7473 CRS .8350 CST .9892
 LSA 1280.7 MSA 241.7 SSA 16.4
 EL1 975.4 EL2 238.2 ALF 17.87

LAUNCH DATE DEC 9 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 273.291

RL 147.33 LAL -1.00 LOL 76.99 VL 25.861 GAL 9.29 AZL 86.62 HCA 110.88 SMA 117.15 ECC .30111 INC 3.3806 V1 30.241
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.460 GAP -16.93 AZP 91.21 TAL 156.87 TAP 267.75 RCA 81.88 APO 152.43 V2 35.153
 RC 43.319 GL 13.08 GP .12 ZAL 48.70 ZAP 1.45 ETS 186.04 ZAE 162.87 ETE 219.53 ZAC 103.45 ETC 166.66 CLP 1.45

PLANETOCENTRIC CONIC

C3 44.199 VHL 6.648 DLA 23.54 RAL 22.58 RAD 6568.7 VEL 12.867 PTH 2.34 VHP 10.822 DPA .94 RAP 9.77 ECC 1.7274
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 50 3253.86 -25.31 114.49 267.26 76.86 4 59 4 2653.9 -26.87 106.17
 90.00 23 13 14 4213.25 .47 172.72 257.38 61.69 24 23 27 3613.2 -3.32 166.09
 100.00 5 44 49 2931.46 -27.61 91.35 267.83 78.06 6 33 41 2331.5 -28.98 82.81
 100.00 0 19 52 4010.88 2.52 156.71 256.24 60.20 1 26 42 3410.9 -1.46 150.18
 110.00 7 30 27 2600.97 -33.09 67.42 269.01 80.91 8 13 48 2001.0 -34.00 58.30
 110.00 0 50 43 3914.13 7.27 146.44 253.30 56.51 1 55 57 3314.1 2.82 140.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9161 TRA-2.0119 TC3 -.1536 BAU .1030
 RDE -.4233 RRA .1190 RC3 -.0824 FAU .02167
 FDE .9588 FRA 1.5245 FC3 -.4244 BSP 6646
 BDE 1.0092 BRA 2.0154 BC3 .1743 FSP -416

SGT 2059.6 SGR 397.0 SG3 151.0
 RRT .1208 RRF -.1142 RTF -.9021
 SGB 2097.5 R23 -.0012 R13 -.9021
 SG1 2060.2 SG2 394.0 THA 1.38

ST 972.3 SR 366.4 SS 871.1
 CRT .7552 CRS .8407 CST .9894
 LSA 1335.1 MSA 235.6 SSA 16.4
 EL1 1013.1 EL2 230.5 ALF 16.78

LAUNCH DATE DEC 9 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 280.080

RL 147.33 LAL -1.00 LOL 76.99 VL 26.037 GAL 8.87 AZL 86.62 HCA 114.11 SMA 118.10 ECC .28906 INC 3.3783 V1 30.241
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.574 GAP -16.07 AZP 91.38 TAL 156.62 TAP 270.73 RCA 83.96 APO 152.24 V2 35.141
 RC 42.834 GL 13.70 GP .13 ZAL 48.64 ZAP .13 ETS 282.89 ZAE 165.09 ETE 226.14 ZAC 105.14 ETC 166.63 CLP -.03

PLANETOCENTRIC CONIC

C3 40.974 VHL 6.401 DLA 24.18 RAL 22.51 RAD 6568.6 VEL 12.741 PTH 2.32 VHP 10.327 DPA 1.67 RAP 11.36 ECC 1.6743
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 54 38 3269.60 -25.06 115.58 265.86 76.37 4 49 7 2669.6 -26.69 107.29
 90.00 23 22 57 4159.32 -1.27 169.71 256.59 61.71 24 32 16 3559.3 -5.05 163.06
 100.00 5 36 14 2942.00 -27.46 92.09 266.47 77.69 6 25 16 2342.0 -28.88 83.58
 100.00 0 27 58 3962.15 .87 154.03 255.39 60.12 1 34 0 3362.1 -3.11 147.51
 110.00 7 24 16 2604.00 -33.06 67.66 267.71 80.78 8 7 40 2004.0 -33.98 58.54
 110.00 0 56 25 3872.92 5.72 144.26 252.38 56.24 2 0 58 3272.9 1.25 138.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9246 TRA-1.9877 TC3 -.1337 BAU .0870
 RDE -.3970 RRA .1042 RC3 -.0856 FAU .02291
 FDE 1.0179 FRA 1.5886 FC3 -.4841 BSP 6920
 BDE 1.0062 BRA 1.9904 BC3 .1588 FSP -458

SGT 2125.5 SGR 385.7 SG3 164.9
 RRT .1384 RRF -.1311 RTF -.9089
 SGB 2160.2 R23 -.0011 R13 -.9099
 SG1 2126.2 SG2 381.8 THA 1.49

ST 1013.5 SR 356.7 SS 913.9
 CRT .7639 CRS .8468 CST .9898
 LSA 1391.8 MSA 228.8 SSA 16.3
 EL1 1051.3 EL2 221.9 ALF 15.77

LAUNCH DATE DEC 9 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 286.870

RL 147.33 LAL -0.00 LOL 76.99 VL 26.201 GAL 8.48 AZL 86.62 MCA 117.33 SMA 119.01 ECC .27770 INC 3.3758 VI 30.241
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.679 GAP -15.23 AZP 91.55 TAL 156.42 TAP 273.75 RCA 85.96 APO 152.06 V2 35.129
 RC 42.524 GL 14.32 GP .14 ZAL 48.64 ZAP 1.54 ETS 356.28 ZAE 167.13 ETE 234.89 ZAC 106.80 ETC 166.59 CLP -1.53

PLANETOCENTRIC CONIC

C3 38.043 VHL 6.168 CLA 24.81 RAL 22.40 RAD 6568.5 VEL 12.626 PTH 2.29 VHP 9.848 DPA 2.39 RAP 12.93 ECC 1.6261
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 34 3287.64 -24.77 116.82 264.40 75.82 4 38 21 2687.6 -26.48 108.57
 90.00 23 33 8 4103.78 -3.06 166.61 255.81 61.84 24 41 31 3503.8 -6.81 159.93
 100.00 5 27 4 2953.90 -27.28 92.93 265.07 77.28 6 16 18 2353.9 -28.76 84.44
 100.00 0 36 14 3912.75 -.80 151.32 254.55 60.12 1 41 26 3312.8 -4.77 144.78
 110.00 7 17 46 2607.59 -33.02 67.93 266.36 80.62 8 1 13 2007.6 -33.96 58.82
 110.00 1 2 2 3831.83 4.16 142.10 251.46 56.04 2 5 53 3231.8 -.32 135.89

DIFFERENTIAL CORRECTIONS

TDE -.9346 TRA-1.9670 TC3 -.1138 BAU .0733
 RDE -.3718 RRA .0899 RC3 -.0885 FAU .02429
 FDE 1.0835 FRA 1.6580 FC3 -.5528 BSP 7135
 BDE 1.0059 BRA 1.9690 BC3 .1442 FSP -504

MID-COURSE EXECUTION ACCURACY

SGT 2196.8 SGR 373.7 SG3 180.4
 RRT .1583 RRF -.1500 RTF -.9146
 SGB 2228.3 R23 -.0010 R13 -.9146
 SG1 2197.6 SG2 368.9 THA 1.59

ORBIT DETERMINATION ACCURACY

ST 1057.6 SR 346.5 SS 959.9
 CRT .7728 CRS .8532 CST .9900
 LSA 1452.7 MSA 222.0 SSA 16.2
 EL1 1092.4 EL2 212.9 ALF 14.78

LAUNCH DATE DEC 9 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 293.658

RL 147.33 LAL -0.00 LOL 76.99 VL 26.353 GAL 8.10 AZL 86.63 MCA 120.55 SMA 119.87 ECC .26700 INC 3.3733 VI 30.241
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.777 GAP -14.41 AZP 91.72 TAL 156.25 TAP 276.80 RCA 87.86 APO 151.87 V2 35.117
 RC 42.392 GL 14.96 GP .15 ZAL 48.68 ZAP 3.07 ETS 358.75 ZAE 168.81 ETE 246.43 ZAC 108.43 ETC 166.53 CLP -3.07

PLANETOCENTRIC CONIC

C3 35.381 VHL 5.948 CLA 25.44 RAL 22.24 RAD 6568.4 VEL 12.520 PTH 2.27 VHP 9.385 DPA 3.10 RAP 14.46 ECC 1.5823
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 31 28 3308.59 -24.41 118.25 262.88 75.19 4 26 36 2708.6 -26.21 110.04
 90.00 23 43 57 4046.17 -4.91 163.38 255.05 62.08 24 51 23 3446.2 -8.61 156.65
 100.00 5 17 18 2967.38 -27.08 93.88 263.62 76.83 6 6 45 2367.4 -28.62 85.42
 100.00 0 44 43 3862.61 -2.50 148.57 253.72 60.20 1 49 6 3262.6 -6.45 142.00
 110.00 7 10 56 2611.81 -32.97 68.25 264.99 80.43 7 54 28 2011.8 -33.94 59.14
 110.00 1 7 34 3790.94 2.60 139.96 250.54 55.90 2 10 45 3190.9 -1.89 133.76

DIFFERENTIAL CORRECTIONS

TDE -.9443 TRA-1.9410 TC3 -.0886 BAU .0600
 RDE -.3476 RRA .0764 RC3 -.0909 FAU .02584
 FDE 1.1563 FRA 1.7333 FC3 -.6322 BSP 7377
 BDE 1.0062 BRA 1.9425 BC3 .1269 FSP -556

MID-COURSE EXECUTION ACCURACY

SGT 2263.9 SGR 361.2 SG3 197.5
 RRT .1800 RRF -.1707 RTF -.9202
 SGB 2292.5 R23 -.0009 R13 -.9202
 SG1 2264.8 SG2 355.1 THA 1.69

ORBIT DETERMINATION ACCURACY

ST 1101.4 SR 335.7 SS 1009.1
 CRT .7825 CRS .8599 CST .9904
 LSA 1515.9 MSA 214.7 SSA 16.1
 EL1 1133.4 EL2 203.1 ALF 13.87

LAUNCH DATE DEC 9 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 300.442

RL 147.33 LAL -0.00 LOL 76.99 VL 26.494 GAL 7.74 AZL 86.63 MCA 123.77 SMA 120.68 ECC .25695 INC 3.3705 VI 30.241
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.866 GAP -13.63 AZP 91.88 TAL 156.12 TAP 279.89 RCA 89.67 APO 151.69 V2 35.105
 RC 42.442 GL 15.59 GP .17 ZAL 48.78 ZAP 4.65 ETS 359.62 ZAE 169.96 ETE 260.96 ZAC 110.01 ETC 166.46 CLP -4.65

PLANETOCENTRIC CONIC

C3 32.965 VHL 5.741 CLA 26.05 RAL 22.03 RAD 6568.3 VEL 12.423 PTH 2.24 VHP 8.938 DPA 3.79 RAP 15.95 ECC 1.5425
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 18 5 3333.33 -23.97 119.93 261.31 74.46 4 13 38 2733.3 -25.87 111.78
 90.00 23 55 40 3985.73 -6.82 159.97 254.32 62.45 25 2 6 3385.7 -10.46 153.18
 100.00 5 6 50 2982.72 -26.83 94.96 262.14 76.31 5 56 33 2382.7 -28.45 86.53
 100.00 0 53 32 3811.57 -4.22 145.76 252.90 60.38 1 57 3 3211.6 -8.14 139.16
 110.00 7 3 49 2616.71 -32.92 68.62 263.60 80.22 7 47 25 2016.7 -33.92 59.52
 110.00 1 13 2 3750.34 1.05 137.84 249.62 55.83 2 15 33 3150.3 -3.44 131.63

DIFFERENTIAL CORRECTIONS

TDE -.9545 TRA-1.9137 TC3 -.0602 BAU .0487
 RDE -.3245 RRA .0636 RC3 -.0926 FAU .02756
 FDE 1.2376 FRA 1.8156 FC3 -.7238 BSP 7598
 BDE 1.0081 BRA 1.9147 BC3 .1104 FSP -613

MID-COURSE EXECUTION ACCURACY

SGT 2330.3 SGR 348.1 SG3 216.6
 RRT .2040 RRF -.1937 RTF -.9254
 SGB 2356.2 R23 -.0008 R13 -.9254
 SG1 2331.4 SG2 340.6 THA 1.78

ORBIT DETERMINATION ACCURACY

ST 1146.3 SR 324.5 SS 1062.2
 CRT .7928 CRS .8670 CST .9908
 LSA 1582.5 MSA 207.2 SSA 16.0
 EL1 1175.6 EL2 192.9 ALF 13.01

LAUNCH DATE DEC 9 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 307.219

RL 147.33 LAL -0.00 LOL 76.99 VL 26.625 GAL 7.41 AZL 86.63 MCA 126.99 SMA 121.45 ECC .24752 INC 3.3675 VI 30.241
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.948 GAP -12.87 AZP 92.03 TAL 156.02 TAP 283.02 RCA 91.39 APO 151.51 V2 35.092
 RC 42.671 GL 16.23 GP .19 ZAL 48.91 ZAP 6.27 ETS .09 ZAE 170.39 ETE 277.44 ZAC 111.55 ETC 166.37 CLP -6.27

PLANETOCENTRIC CONIC

C3 30.773 VHL 5.547 CLA 26.65 RAL 21.78 RAD 6568.2 VEL 12.335 PTH 2.22 VHP 8.506 DPA 4.46 RAP 17.41 ECC 1.5065
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 59 3363.33 -23.41 121.95 259.67 73.59 3 59 2 2763.3 -25.43 113.86
 90.00 0 12 40 3921.11 -8.84 156.30 253.66 62.99 1 18 2 3321.1 -12.39 149.42
 100.00 4 55 36 3000.27 -26.55 96.18 260.62 75.73 5 45 36 2400.3 -28.25 87.79
 100.00 1 2 44 3759.41 -5.97 142.87 252.11 60.66 2 5 24 3159.4 -9.84 136.22
 110.00 6 56 24 2622.32 -32.85 69.04 262.18 79.98 7 40 6 2022.3 -33.89 59.96
 110.00 1 18 26 3710.12 -.49 135.74 248.71 55.82 2 20 17 3110.1 -4.97 129.52

DIFFERENTIAL CORRECTIONS

TDE -.9620 TRA-1.8813 TC3 -.0245 BAU .0397
 RDE -.3023 RRA .0516 RC3 -.0934 FAU .02953
 FDE 1.3273 FRA 1.9042 FC3 -.8308 BSP 7880
 BDE 1.0084 BRA 1.8820 BC3 .0966 FSP -680

MID-COURSE EXECUTION ACCURACY

SGT 2390.5 SGR 334.4 SG3 237.7
 RRT .2294 RRF -.2187 RTF -.9306
 SGB 2413.7 R23 -.0012 R13 -.9306
 SG1 2391.7 SG2 325.3 THA 1.87

ORBIT DETERMINATION ACCURACY

ST 1188.5 SR 312.8 SS 1118.4
 CRT .8032 CRS .8743 CST .9911
 LSA 1649.6 MSA 199.7 SSA 15.7
 EL1 1215.4 EL2 182.2 ALF 12.21

LAUNCH DATE DEC 9 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 313.987

RL 147.33 LAL -1.00 LOL 76.99 VL 26.746 GAL 7.09 AZL 86.64 MCA 130.21 SMA 122.17 ECC .23869 INC 3.3643 V1 30.241
 RP 108.03 LAP 2.57 LOP 207.25 VP 37.023 GAP -12.13 AZP 92.17 TAL 155.96 TAP 286.17 RCA 93.01 APO 151.33 V2 35.080
 RC 43.078 GL 16.88 GP .20 ZAL 49.10 ZAP 7.95 ETS .38 ZAE 170.08 ETE 293.50 ZAC 113.03 ETC 166.27 CLP -7.94

PLANETOCENTRIC CONIC

C3 28.789 VHL 5.366 DLA 27.24 RAL 21.49 RAD 6568.2 VEL 12.254 PTH 2.20 VHP 8.089 DPA 5.10 RAP 18.81 ECC 1.4738
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 18 3401.48 -22.65 124.49 257.94 72.54 3 42 0 2801.5 -24.83 116.50
 90.00 0 28 0 3849.55 -11.03 152.17 253.08 63.75 1 32 10 3249.6 -14.47 145.19
 100.00 4 43 29 3020.51 -26.20 97.59 259.07 75.06 5 33 50 2420.5 -27.99 89.24
 100.00 1 12 31 3705.76 -7.75 139.88 251.35 61.04 2 14 16 3105.8 -11.56 133.16
 110.00 6 48 42 2628.67 -32.78 69.52 260.76 79.70 7 32 31 2028.7 -33.85 60.45
 110.00 1 23 47 3670.36 -2.01 133.67 247.81 55.87 2 24 58 3070.4 -6.47 127.43

DIFFERENTIAL CORRECTIONS

TDE -.9718 TRA-1.8497 TC3 .0117 BAU .0363
 RDE -.2813 RRA .0402 RC3 -.0935 FAU .03169
 FDE 1.4289 FRA 2.0031 FC3 -.9531 BSP 8089
 BDE 1.0117 BRA 1.8501 BC3 .0943 FSP -752

MID-COURSE EXECUTION ACCURACY

SGT 2452.0 SGR 320.4 SG3 261.5
 RRT .2586 RRF -.2469 RTF -.9352
 SGB 2472.8 R23 -.0012 R13 -.9352
 SG1 2453.4 SG2 309.3 THA 1.97

ORBIT DETERMINATION ACCURACY

ST 1233.4 SR 300.7 SS 1179.9
 CRT .8144 CRS .8820 CST .9915
 LSA 1722.4 MSA 192.0 SSA 15.5
 EL1 1257.9 EL2 171.1 ALF 11.45

LAUNCH DATE DEC 9 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 320.745

RL 147.33 LAL -1.00 LOL 76.99 VL 26.858 GAL 6.79 AZL 86.64 MCA 133.42 SMA 122.85 ECC .23044 INC 3.3607 V1 30.241
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.092 GAP -11.42 AZP 92.31 TAL 155.94 TAP 289.36 RCA 94.54 APO 151.16 V2 35.067
 RC 43.658 GL 17.51 GP .23 ZAL 49.32 ZAP 9.68 ETS .58 ZAE 169.19 ETE 307.09 ZAC 114.44 ETC 166.15 CLP -9.68

PLANETOCENTRIC CONIC

C3 26.992 VHL 5.195 DLA 27.80 RAL 21.16 RAD 6568.1 VEL 12.181 PTH 2.19 VHP 7.686 DPA 5.72 RAP 20.16 ECC 1.4442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 22 40 3455.51 -21.50 128.03 256.04 71.12 3 20 16 2855.5 -23.88 120.17
 90.00 0 48 0 3763.41 -13.57 147.13 252.68 64.91 1 50 43 3163.4 -16.84 139.98
 100.00 4 30 17 3044.14 -25.77 99.21 257.49 74.31 5 21 1 2444.1 -27.68 90.93
 100.00 1 23 4 3650.02 -9.58 136.75 250.63 61.55 2 23 54 3050.0 -13.30 129.95
 110.00 6 40 46 2635.78 -32.69 70.06 259.34 79.40 7 24 42 2035.8 -33.81 61.00
 110.00 1 29 5 3631.14 -3.50 131.62 246.92 55.97 2 29 36 3031.1 -7.94 125.35

DIFFERENTIAL CORRECTIONS

TDE -.9817 TRA-1.8165 TC3 .0505 BAU .0381
 RDE -.2613 RRA .0295 RC3 -.0927 FAU .03410
 FDE 1.5435 FRA 2.1125 FC3 -1.0937 BSP 8273
 BDE 1.0159 BRA 1.8167 BC3 .1055 FSP -832

MID-COURSE EXECUTION ACCURACY

SGT 2510.7 SGR 306.0 SG3 288.2
 RRT .2912 RRF -.2785 RTF -.9394
 SGB 2529.3 R23 -.0013 R13 -.9394
 SG1 2512.3 SG2 292.5 THA 2.06

ORBIT DETERMINATION ACCURACY

ST 1278.2 SR 288.3 SS 1246.4
 CRT .8260 CRS .8899 CST .9920
 LSA 1799.0 MSA 184.3 SSA 15.1
 EL1 1300.5 EL2 159.7 ALF 10.72

LAUNCH DATE DEC 9 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 327.491

RL 147.33 LAL -1.00 LOL 76.99 VL 26.961 GAL 6.50 AZL 86.64 MCA 136.63 SMA 123.49 ECC .22276 INC 3.3568 V1 30.241
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.155 GAP -10.73 AZP 92.44 TAL 155.95 TAP 292.58 RCA 95.98 APO 150.99 V2 35.053
 RC 44.405 GL 18.14 GP .26 ZAL 49.57 ZAP 11.48 ETS .73 ZAE 167.95 ETE 317.64 ZAC 115.79 ETC 166.02 CLP -11.48

PLANETOCENTRIC CONIC

C3 25.368 VHL 5.037 DLA 28.35 RAL 20.79 RAD 6568.0 VEL 12.114 PTH 2.17 VHP 7.298 DPA 6.32 RAP 21.45 ECC 1.4175
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.52 1 21 32 3634.09 -18.22 139.79 253.21 67.90 2 22 6 3034.1 -21.06 132.26
 91.48 1 46 13 3554.10 -18.21 133.93 253.21 67.89 2 45 27 2954.1 -21.05 126.41
 100.00 4 15 39 3072.33 -25.24 101.14 255.86 73.43 5 6 51 2472.3 -27.27 92.93
 100.00 1 34 47 3591.10 -11.47 133.40 249.96 62.20 2 34 38 2991.1 -15.10 126.49
 110.00 6 32 37 2643.61 -32.59 70.65 257.92 79.06 7 16 40 2043.6 -33.75 61.61
 110.00 1 34 19 3592.58 -4.97 129.60 246.05 56.14 2 34 11 2992.6 -9.38 123.29

DIFFERENTIAL CORRECTIONS

TDE -.9905 TRA-1.7808 TC3 .0928 BAU .0440
 RDE -.2422 RRA .0193 RC3 -.0907 FAU .03681
 FDE 1.6719 FRA 2.2334 FC3 -1.2563 BSP 8458
 BDE 1.0197 BRA 1.7809 BC3 .1298 FSP -923

MID-COURSE EXECUTION ACCURACY

SGT 2564.6 SGR 291.4 SG3 318.1
 RRT .3272 RRF -.3136 RTF -.9434
 SGB 2581.1 R23 -.0014 R13 -.9434
 SG1 2566.4 SG2 275.1 THA 2.15

ORBIT DETERMINATION ACCURACY

ST 1321.6 SR 275.6 SS 1318.0
 CRT .8380 CRS .8981 CST .9924
 LSA 1878.3 MSA 176.8 SSA 14.7
 EL1 1341.9 EL2 148.1 ALF 10.04

LAUNCH DATE DEC 9 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 334.222

RL 147.33 LAL -1.00 LOL 76.99 VL 27.056 GAL 6.23 AZL 86.65 MCA 139.84 SMA 124.08 ECC .21561 INC 3.3523 V1 30.241
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.211 GAP -10.06 AZP 92.56 TAL 155.99 TAP 295.83 RCA 97.33 APO 150.83 V2 35.040
 RC 45.309 GL 18.77 GP .29 ZAL 49.85 ZAP 13.36 ETS .84 ZAE 166.57 ETE 325.61 ZAC 117.06 ETC 165.88 CLP -13.36

PLANETOCENTRIC CONIC

C3 23.901 VHL 4.889 DLA 28.88 RAL 20.40 RAD 6568.0 VEL 12.053 PTH 2.15 VHP 6.924 DPA 6.88 RAP 22.66 ECC 1.3934
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.07 0 43 9 3738.51 -18.92 147.75 251.98 67.77 1 45 27 3138.5 -21.78 140.19
 95.93 2 21 27 3420.39 -18.91 124.43 251.98 67.76 3 18 28 2820.4 -21.76 116.87
 100.00 3 58 54 3107.33 -24.54 103.50 254.17 72.37 4 50 41 2507.3 -26.72 95.38
 100.00 1 48 23 3526.81 -13.48 129.69 249.39 63.06 2 47 10 2926.8 -16.99 122.65
 110.00 6 24 17 2652.14 -32.48 71.29 256.50 78.70 7 8 29 2052.1 -33.69 62.27
 110.00 1 39 30 3554.76 -6.40 127.60 245.20 56.35 2 38 44 2954.8 -10.78 121.25

DIFFERENTIAL CORRECTIONS

TDE -.9954 TRA-1.7406 TC3 .1420 BAU .0533
 RDE -.2240 RRA .0098 RC3 -.0875 FAU .03995
 FDE 1.8148 FRA 2.3659 FC3 -1.4470 BSP 8678
 BDE 1.0203 BRA 1.7406 BC3 .1668 FSP -1028

MID-COURSE EXECUTION ACCURACY

SGT 2609.1 SGR 276.4 SG3 351.5
 RRT .3658 RRF -.3519 RTF -.9472
 SGB 2623.7 R23 -.0022 R13 -.9472
 SG1 2611.1 SG2 257.1 THA 2.24

ORBIT DETERMINATION ACCURACY

ST 1359.9 SR 262.6 SS 1393.7
 CRT .8500 CRS .9065 CST .9927
 LSA 1957.5 MSA 169.8 SSA 14.2
 EL1 1378.3 EL2 136.5 ALF 9.41

LAUNCH DATE DEC 9 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 340.939

RL 147.33 LAL -.00 LOL 76.99 VL 27.144 GAL 5.99 AZL 86.65 MCA 143.05 SMA 124.63 ECC .20898 INC 3.3473 V1 30.241
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.262 GAP -9.41 AZP 92.68 TAL 156.05 TAP 299.10 RCA 98.59 APO 150.68 V2 35.027
 RC 46.364 GL 19.37 GP .33 ZAL 50.16 ZAP 15.33 ETS .92 ZAE 165.19 ETE 331.63 ZAC 118.24 ETC 165.73 CLP -15.32

PLANETOCENTRIC CONIC

C3 22.578 VHL 4.752 DLA 29.38 RAL 19.98 RAD 6567.9 VEL 11.998 PTH 2.14 VHP 6.564 OPA 7.41 RAP 23.79 ECC 1.3716
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.81 0 23 22 3782.88 -19.60 151.31 250.78 67.66 1 26 25 3182.9 -22.46 143.72
 98.19 2 37 54 3348.24 -19.58 119.40 250.77 67.65 3 33 42 2748.2 -22.45 111.81
 100.00 3 38 16 3154.92 -23.52 106.67 252.37 71.00 4 30 50 2554.9 -25.90 98.68
 100.00 2 5 41 3451.44 -15.76 125.25 248.98 64.27 3 3 13 2851.4 -19.09 118.04
 110.00 6 15 49 2661.31 -32.35 71.98 255.11 78.31 7 0 11 2061.3 -33.62 62.97
 110.00 1 44 37 3517.81 -7.79 125.64 244.37 56.61 2 43 15 2917.8 -12.13 119.24

DIFFERENTIAL CORRECTIONS

TDE -1.0018 TRA -1.7008 TC3 .1878 BAU .0620
 RDE -.2069 RRA .0008 RC3 -.0831 FAU .04337
 FDE 1.9782 FRA 2.5157 FC3 -1.6629 BSP 8816
 BDE 1.0229 BRA 1.7008 BC3 .2054 FSP -1143

MID-COURSE EXECUTION ACCURACY

SGT 2651.5 SGR 261.7 SG3 389.4
 RRT .4105 RRF -.3957 RTF -.9505
 SGB 2664.4 R23 -.0026 R13 -.9505
 SG1 2653.7 SG2 238.4 THA 2.34

ORBIT DETERMINATION ACCURACY

ST 1399.2 SR 249.5 SS 1477.1
 CRT .8626 CRS .9152 CST .9931
 LSA 2043.3 MSA 162.9 SSA 13.6
 EL1 1415.8 EL2 124.7 ALF 8.81

LAUNCH DATE DEC 9 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 347.638

RL 147.33 LAL -.00 LOL 76.99 VL 27.224 GAL 5.75 AZL 86.66 MCA 146.25 SMA 125.15 ECC .20286 INC 3.3413 V1 30.241
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.308 GAP -8.78 AZP 92.78 TAL 156.14 TAP 302.39 RCA 99.76 APO 150.53 V2 35.013
 RC 47.558 GL 19.96 GP .37 ZAL 50.48 ZAP 17.39 ETS .96 ZAE 163.93 ETE 336.27 ZAC 119.32 ETC 165.57 CLP -17.39

PLANETOCENTRIC CONIC

C3 21.385 VHL 4.624 DLA 29.86 RAL 19.54 RAD 6567.9 VEL 11.948 PTH 2.13 VHP 6.218 OPA 7.91 RAP 24.83 ECC 1.3520
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.10 0 8 23 3812.14 -20.24 153.76 249.60 67.57 1 11 56 3212.1 -23.11 146.14
 99.90 2 49 24 3292.73 -20.23 115.57 249.59 67.56 3 44 17 2692.7 -23.10 107.95
 100.00 3 1 40 3253.55 -21.19 113.07 250.00 68.41 3 55 54 2653.5 -23.93 105.35
 100.00 2 38 48 3326.56 -19.29 117.66 249.17 66.71 3 34 15 2726.6 -22.28 110.14
 110.00 6 7 18 2671.02 -32.22 72.70 253.74 77.90 6 51 49 2071.0 -33.55 63.72
 110.00 1 49 40 3481.85 -9.13 123.72 243.56 56.91 2 47 42 2881.9 -13.42 117.26

DIFFERENTIAL CORRECTIONS

TDE -1.0037 TRA -1.6568 TC3 .2380 BAU .0715
 RDE -.1906 RRA -.0078 RC3 -.0772 FAU .04728
 FDE 2.1614 FRA 2.6820 FC3 -1.9142 BSP 8972
 BDE 1.0217 BRA 1.6568 BC3 .2502 FSP -1276

MID-COURSE EXECUTION ACCURACY

SGT 2682.9 SGR 246.9 SG3 431.9
 RRT .4592 RRF -.4443 RTF -.9537
 SGB 2694.2 R23 -.0039 R13 -.9537
 SG1 2685.3 SG2 219.2 THA 2.44

ORBIT DETERMINATION ACCURACY

ST 1432.1 SR 236.2 SS 1565.9
 CRT .8752 CRS .9240 CST .9935
 LSA 2129.3 MSA 156.6 SSA 12.8
 EL1 1447.0 EL2 113.1 ALF 8.26

LAUNCH DATE DEC 9 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 354.320

RL 147.33 LAL -.00 LOL 76.99 VL 27.298 GAL 5.54 AZL 86.67 MCA 149.46 SMA 125.62 ECC .19721 INC 3.3344 V1 30.241
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.350 GAP -8.17 AZP 92.87 TAL 156.25 TAP 305.70 RCA 100.85 APO 150.39 V2 35.000
 RC 48.883 GL 20.53 GP .43 ZAL 50.82 ZAP 19.57 ETS .98 ZAE 162.83 ETE 339.92 ZAC 120.29 ETC 165.41 CLP -19.56

PLANETOCENTRIC CONIC

C3 20.312 VHL 4.507 DLA 30.31 RAL 19.10 RAD 6567.8 VEL 11.903 PTH 2.12 VHP 5.886 OPA 8.37 RAP 25.75 ECC 1.3343
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.71 23 52 15 3833.05 -20.85 155.59 248.45 67.49 24 56 8 3233.1 -23.72 147.94
 101.29 2 58 3 3247.13 -20.84 112.44 248.44 67.48 3 52 11 2647.1 -23.71 104.79
 78.71 23 52 15 3833.05 -20.85 155.59 248.45 67.49 24 56 8 3233.1 -23.72 147.94
 101.29 2 58 3 3247.13 -20.84 112.44 248.44 67.48 3 52 11 2647.1 -23.71 104.79
 110.00 5 58 47 2681.12 -32.07 73.45 252.39 77.48 6 43 28 2081.1 -33.46 64.50
 110.00 1 54 38 3447.07 -10.42 121.85 242.79 57.26 2 52 5 2847.1 -14.66 115.32

DIFFERENTIAL CORRECTIONS

TDE -1.0017 TRA -1.6091 TC3 .2902 BAU .0811
 RDE -.1751 RRA -.0159 RC3 -.0698 FAU .05177
 FDE 2.3666 FRA 2.8666 FC3 -2.2067 BSP 9115
 BDE 1.0169 BRA 1.6092 BC3 .2985 FSP -1428

MID-COURSE EXECUTION ACCURACY

SGT 2702.7 SGR 232.6 SG3 479.7
 RRT .5132 RRF -.4985 RTF -.9565
 SGB 2712.7 R23 -.0056 R13 -.9566
 SG1 2705.4 SG2 199.4 THA 2.54

ORBIT DETERMINATION ACCURACY

ST 1458.5 SR 222.8 SS 1660.3
 CRT .8880 CRS .9331 CST .9938
 LSA 2216.0 MSA 150.9 SSA 12.0
 EL1 1471.9 EL2 101.5 ALF 7.76

LAUNCH DATE DEC 9 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 360.984

RL 147.33 LAL -.00 LOL 76.99 VL 27.365 GAL 5.34 AZL 86.67 MCA 152.65 SMA 126.06 ECC .19202 INC 3.3260 V1 30.241
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.386 GAP -7.58 AZP 92.95 TAL 156.37 TAP 309.02 RCA 101.85 APO 150.26 V2 34.987
 RC 50.327 GL 21.06 GP .51 ZAL 51.16 ZAP 21.87 ETS .98 ZAE 161.95 ETE 342.88 ZAC 121.13 ETC 165.24 CLP -21.87

PLANETOCENTRIC CONIC

C3 19.347 VHL 4.399 DLA 30.72 RAL 18.65 RAD 6567.8 VEL 11.863 PTH 2.10 VHP 5.568 OPA 8.79 RAP 26.56 ECC 1.3184
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.55 23 41 55 3848.57 -21.43 157.01 247.34 67.44 24 46 4 3248.6 -24.30 149.32
 102.45 3 4 48 3208.48 -21.41 109.80 247.34 67.43 3 58 17 2608.5 -24.29 102.12
 77.55 23 41 55 3848.57 -21.43 157.01 247.34 67.44 24 46 4 3248.6 -24.30 149.32
 102.45 3 4 48 3208.48 -21.41 109.80 247.34 67.43 3 58 17 2608.5 -24.29 102.12
 110.00 5 50 23 2691.38 -31.92 74.21 251.09 77.05 6 35 14 2091.4 -33.37 65.28
 110.00 1 59 27 3413.67 -11.64 120.04 242.04 57.63 2 56 20 2813.7 -15.83 113.44

DIFFERENTIAL CORRECTIONS

TDE -.9935 TRA -1.5560 TC3 .3462 BAU .0909
 RDE -.1605 RRA -.0237 RC3 -.0605 FAU .05697
 FDE 2.5955 FRA 3.0712 FC3 -2.5493 BSP 9293
 BDE 1.0064 BRA 1.5562 BC3 .3515 FSP -1607

MID-COURSE EXECUTION ACCURACY

SGT 2706.7 SGR 218.7 SG3 533.4
 RRT .5725 RRF -.5587 RTF -.9593
 SGB 2715.6 R23 -.0086 R13 -.9593
 SG1 2709.7 SG2 179.2 THA 2.66

ORBIT DETERMINATION ACCURACY

ST 1474.8 SR 209.4 SS 1759.9
 CRT .9009 CRS .9424 CST .9940
 LSA 2301.0 MSA 145.9 SSA 10.9
 EL1 1486.9 EL2 90.2 ALF 7.32

LAUNCH DATE DEC 9 1968

FLIGHT TIME 142.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -.00 LOL 76.99 VL 27.426 GAL 5.16 AZL 86.68 HCA 155.85 SMA 126.46 ECC .18730 INC 3.3155 V1 30.241
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.419 GAP -7.01 AZP 93.03 TAL 156.49 TAP 312.34 RCA 102.77 APO 150.15 V2 34.974
 RC 51.881 GL 21.55 GP .61 ZAL 51.48 ZAP 24.30 ETS .94 ZAE 161.31 ETE 345.35 ZAC 121.83 ETC 165.07 CLP -24.30

PLANETOCENTRIC CONIC

C3 18.494 VHL 4.300 DLA 31.10 RAL 18.23 RAD 6567.7 VEL 11.827 PTH 2.09 VHP 5.265 DPA 9.18 RAP 27.23 ECC 1.3044
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.57 23 33 12 3860.24 -21.96 158.12 246.32 67.40 24 37 32 3260.2 -24.83 150.40
 103.43 3 10 12 3175.56 -21.94 107.56 246.31 67.39 4 3 7 2575.6 -24.81 99.85
 76.57 23 33 12 3860.24 -21.96 158.12 246.32 67.40 24 37 32 3260.2 -24.83 150.40
 103.43 3 10 12 3175.56 -21.94 107.56 246.31 67.39 4 3 7 2575.6 -24.81 99.85
 110.00 5 42 20 2701.68 -31.76 74.97 249.88 76.63 6 27 22 2101.7 -33.27 66.07
 110.00 2 4 10 3382.11 -12.78 118.31 241.37 58.02 3 0 32 2782.1 -16.92 111.64

DIFFERENTIAL CORRECTIONS

TDE -1.1525 TRA -1.6724 TC3 .0226 BAU .0172
 RDE -.1544 RRA -.0392 RC3 -.0659 FAU .05227
 FDE 3.0966 FRA 3.5510 FC3 -2.4469 BSP 5247
 BDE 1.1628 BRA 1.6729 BC3 .0697 FSP -1334

MID-COURSE EXECUTION ACCURACY

SGT 3021.6 SGR 221.9 SG3 622.9
 RRT .7060 RRF -.6663 RTF -.9527
 SGB 3029.8 R23 .0114 R13 -.9527
 SG1 3025.7 SG2 156.9 THA 2.98

ORBIT DETERMINATION ACCURACY

ST 1722.6 SR 206.5 SS 2022.8
 CRT .9280 CRS .9570 CST .9960
 LSA 2661.5 MSA 134.4 SSA 11.9
 EL1 1733.3 EL2 76.5 ALF 6.36

LAUNCH DATE DEC 9 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -.00 LOL 76.99 VL 27.481 GAL 4.98 AZL 86.70 HCA 159.05 SMA 126.83 ECC .18294 INC 3.3020 V1 30.241
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.448 GAP -6.45 AZP 93.08 TAL 156.64 TAP 315.69 RCA 103.63 APO 150.03 V2 34.961
 RC 53.536 GL 22.01 GP .74 ZAL 51.83 ZAP 26.92 ETS .85 ZAE 160.98 ETE 347.46 ZAC 122.35 ETC 164.90 CLP -26.91

PLANETOCENTRIC CONIC

C3 17.705 VHL 4.208 DLA 31.43 RAL 17.78 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 4.973 DPA 9.53 RAP 27.73 ECC 1.2914
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.75 23 25 40 3868.16 -22.45 158.94 245.28 67.40 24 30 8 3268.2 -25.31 151.19
 104.25 3 14 10 3147.28 -22.43 105.65 245.27 67.38 4 6 37 2547.3 -25.30 97.90
 75.75 23 25 40 3868.16 -22.45 158.94 245.28 67.40 24 30 8 3268.2 -25.31 151.19
 104.25 3 14 10 3147.28 -22.43 105.65 245.27 67.38 4 6 37 2547.3 -25.30 97.90
 110.00 5 34 35 2710.90 -31.61 75.65 248.65 76.25 6 19 46 2110.9 -33.17 66.77
 110.00 2 8 21 3352.54 -13.84 116.68 240.66 58.43 3 4 13 2752.5 -17.92 109.93

DIFFERENTIAL CORRECTIONS

TDE -.9951 TRA -1.4734 TC3 .3698 BAU .0880
 RDE -.1360 RRA -.0410 RC3 -.0398 FAU .06715
 FDE 3.1953 FRA 3.6152 FC3 -3.2833 BSP 8672
 BDE 1.0044 BRA 1.4740 BC3 .3720 FSP -1934

MID-COURSE EXECUTION ACCURACY

SGT 2731.7 SGR 199.2 SG3 668.4
 RRT .7243 RRF -.7074 RTF -.9616
 SGB 2739.0 R23 -.0132 R13 -.9616
 SG1 2735.6 SG2 137.2 THA 3.03

ORBIT DETERMINATION ACCURACY

ST 1527.7 SR 186.2 SS 2012.5
 CRT .9306 CRS .9627 CST .9948
 LSA 2529.8 MSA 136.2 SSA 8.9
 EL1 1537.5 EL2 67.7 ALF 6.49

LAUNCH DATE DEC 9 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -.00 LOL 76.99 VL 27.532 GAL 4.83 AZL 86.72 HCA 162.24 SMA 127.16 ECC .17901 INC 3.2842 V1 30.241
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.472 GAP -5.90 AZP 93.13 TAL 156.78 TAP 319.02 RCA 104.40 APO 149.93 V2 34.948
 RC 55.282 GL 22.40 GP .92 ZAL 52.14 ZAP 29.70 ETS .72 ZAE 160.95 ETE 349.40 ZAC 122.69 ETC 164.73 CLP -29.69

PLANETOCENTRIC CONIC

C3 17.004 VHL 4.124 DLA 31.71 RAL 17.39 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 4.698 DPA 9.85 RAP 28.04 ECC 1.2798
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.09 23 19 32 3873.06 -22.88 159.51 244.33 67.42 24 24 5 3273.1 -25.74 151.72
 104.91 3 17 7 3123.68 -22.87 104.06 244.33 67.41 4 9 11 2523.7 -25.73 96.28
 75.09 23 19 32 3873.06 -22.88 159.51 244.33 67.42 24 24 5 3273.1 -25.74 151.72
 104.91 3 17 7 3123.68 -22.87 104.06 244.33 67.41 4 9 11 2523.7 -25.73 96.28
 110.00 5 27 42 2718.66 -31.48 76.22 247.53 75.94 6 13 1 2118.7 -33.09 67.36
 110.00 2 12 3 3326.09 -14.78 115.20 240.00 58.82 3 7 29 2726.1 -18.80 108.39

DIFFERENTIAL CORRECTIONS

TDE -.9621 TRA -1.4023 TC3 .4222 BAU .0961
 RDE -.1249 RRA -.0494 RC3 -.0236 FAU .07487
 FDE 3.5111 FRA 3.9003 FC3 -3.8121 BSP 8842
 BDE .9702 BRA 1.4031 BC3 .4229 FSP -2205

MID-COURSE EXECUTION ACCURACY

SGT 2674.7 SGR 192.4 SG3 744.6
 RRT .7970 RRF -.7839 RTF -.9634
 SGB 2681.6 R23 -.0242 R13 -.9635
 SG1 2679.1 SG2 116.0 THA 3.29

ORBIT DETERMINATION ACCURACY

ST 1503.1 SR 175.2 SS 2126.9
 CRT .9440 CRS .9724 CST .9948
 LSA 2606.9 MSA 133.2 SSA 7.5
 EL1 1512.2 EL2 57.5 ALF 6.29

LAUNCH DATE DEC 9 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -.00 LOL 76.99 VL 27.577 GAL 4.69 AZL 86.74 HCA 165.43 SMA 127.47 ECC .17547 INC 3.2586 V1 30.241
 RP 108.47 LAP .82 LOP 242.44 VP 37.494 GAP -5.38 AZP 93.15 TAL 156.92 TAP 322.35 RCA 105.10 APO 149.84 V2 34.936
 RC 57.109 GL 22.71 GP 1.18 ZAL 52.41 ZAP 32.68 ETS .49 ZAE 161.25 ETE 351.32 ZAC 122.81 ETC 164.53 CLP -32.67

PLANETOCENTRIC CONIC

C3 16.370 VHL 4.046 DLA 31.92 RAL 17.04 RAD 6567.7 VEL 11.737 PTH 2.07 VHP 4.437 DPA 10.18 RAP 28.13 ECC 1.2694
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.62 23 14 55 3874.43 -23.25 159.78 243.45 67.49 24 19 30 3274.4 -26.09 151.96
 105.38 3 18 57 3104.89 -23.24 102.80 243.44 67.48 4 10 42 2504.9 -26.08 94.99
 74.62 23 14 55 3874.43 -23.25 159.78 243.45 67.49 24 19 30 3274.4 -26.09 151.96
 105.38 3 18 57 3104.89 -23.24 102.80 243.44 67.48 4 10 42 2504.9 -26.08 94.99
 110.00 5 22 11 2723.21 -31.41 76.55 246.50 75.76 6 7 34 2123.2 -33.04 67.71
 110.00 2 14 47 3304.10 -15.55 113.96 239.36 59.17 3 9 51 2704.1 -19.53 107.09

DIFFERENTIAL CORRECTIONS

TDE -.9311 TRA -1.3371 TC3 .4386 BAU .0960
 RDE -.1166 RRA -.0602 RC3 -.0050 FAU .08257
 FDE 3.8817 FRA 4.2449 FC3 -4.3668 BSP 8668
 BDE .9383 BRA 1.3384 BC3 .4386 FSP -2467

MID-COURSE EXECUTION ACCURACY

SGT 2615.5 SGR 193.3 SG3 832.6
 RRT .8708 RRF -.8614 RTF -.9642
 SGB 2622.6 R23 -.0421 R13 -.9643
 SG1 2620.9 SG2 94.8 THA 3.69

ORBIT DETERMINATION ACCURACY

ST 1478.6 SR 167.9 SS 2259.4
 CRT .9584 CRS .9821 CST .9949
 LSA 2702.3 MSA 130.5 SSA 6.1
 EL1 1487.4 EL2 47.6 ALF 6.22

LAUNCH DATE DEC 9 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -0.00 LOL 76.99 VL 27.617 GAL 4.56 AZL 86.78 MCA 168.62 SMA 127.74 ECC .17229 INC 3.2188 VI 30.241
 RP 108.51 LAP .64 LOP 245.62 VP 37.512 GAP -4.86 AZP 93.16 TAL 157.06 TAP 325.67 RCA 105.73 APO 149.75 V2 34.923
 RC 59.010 GL 22.90 GP 1.59 ZAL 52.64 ZAP 35.90 ETS .13 ZAE 161.90 ETE 353.54 ZAC 122.67 ETC 164.28 CLP -35.87

PLANETOCENTRIC CONIC

C3 15.786 VHL 3.973 DLA 32.02 RAL 16.76 RAD 6567.6 VEL 11.712 PTH 2.06 VHP 4.191 DPA 10.55 RAP 27.96 ECC 1.2598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.40 23 12 22 3870.74 -23.53 159.62 242.64 67.64 24 16 52 3270.7 -26.35 151.78
 105.60 3 19 19 3092.05 -23.52 101.95 242.63 67.62 4 10 51 2492.1 -26.34 94.11
 74.40 23 12 22 3870.74 -23.53 159.62 242.64 67.64 24 16 52 3270.7 -26.35 151.78
 105.60 3 19 19 3092.05 -23.52 101.95 242.63 67.62 4 10 51 2492.1 -26.34 94.11
 110.00 5 19 5 2721.38 -31.44 76.42 245.58 75.83 6 4 26 2121.4 -33.06 67.57
 110.00 2 15 42 3289.41 -16.06 113.13 238.69 59.41 3 10 32 2689.4 -20.00 106.22

DIFFERENTIAL CORRECTIONS

TDE -.8855 TRA-1.2626 TC3 .4488 BAU .0948 SGT 2523.6 SGR 206.5 SG3 929.9 ST 1430.2 SR 166.5 SS 2392.0
 RDE -.1124 RRA -.0746 RC3 .0201 FAU .09136 RRT .9312 RRF -.9281 RTF -.9645 CRT .9722 CRS .9908 CST .9948
 FDE 4.2771 FRA 4.6280 FC3-5.0106 BSP 8480 SGB 2532.1 R23 -.0799 R13 -.9647 LSA 2789.0 MSA 128.1 SSA 4.7
 BDE .8926 BRA 1.2648 BC3 .4493 FSP -2768 SG1 2530.9 SG2 75.0 THA 4.36 EL1 1439.4 EL2 38.7 ALF 6.46

LAUNCH DATE DEC 9 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -0.00 LOL 76.99 VL 27.654 GAL 4.45 AZL 86.85 MCA 171.80 SMA 127.99 ECC .16947 INC 3.1500 VI 30.241
 RP 108.55 LAP .45 LOP 248.80 VP 37.528 GAP -4.36 AZP 93.12 TAL 157.18 TAP 328.98 RCA 106.30 APO 149.68 V2 34.911
 RC 60.976 GL 22.85 GP 2.33 ZAL 52.76 ZAP 39.37 ETS 359.47 ZAE 162.93 ETE 356.80 ZAC 122.19 ETC 163.88 CLP -39.31

PLANETOCENTRIC CONIC

C3 15.222 VHL 3.902 DLA 31.91 RAL 16.63 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 3.963 DPA 11.14 RAP 27.43 ECC 1.2505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.64 23 13 28 3857.41 -23.67 158.67 241.91 67.95 24 17 45 3257.4 -26.45 150.80
 105.36 3 17 9 3088.96 -23.65 101.77 241.90 67.94 4 8 38 2489.0 -26.44 93.91
 74.64 23 13 28 3857.41 -23.67 158.67 241.91 67.95 24 17 45 3257.4 -26.45 150.80
 105.36 3 17 9 3088.96 -23.65 101.77 241.90 67.94 4 8 38 2489.0 -26.44 93.91
 110.00 5 20 47 2705.99 -31.69 75.29 244.81 76.45 6 5 53 2106.0 -33.22 66.40
 110.00 2 12 56 3288.38 -16.10 113.07 237.93 59.43 3 7 44 2688.4 -20.04 106.16

DIFFERENTIAL CORRECTIONS

TDE -.8248 TRA-1.1813 TC3 .4439 BAU .0911 SGT 2400.7 SGR 245.6 SG3 1036.2 ST 1357.6 SR 178.8 SS 2516.3
 RDE -.1167 RRA -.0982 RC3 .0584 FAU .10144 RRT .9677 RRF -.9734 RTF -.9635 CRT .9839 CRS .9971 CST .9946
 FDE 4.6742 FRA 5.0540 FC3-5.7696 BSP 8214 SGB 2413.3 R23 -.1602 R13 -.9639 LSA 2862.0 MSA 125.5 SSA 3.3
 BDE .8330 BRA 1.1854 BC3 .4477 FSP -3121 SG1 2412.5 SG2 61.6 THA 5.66 EL1 1369.0 EL2 31.7 ALF 7.39

LAUNCH DATE DEC 9 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -0.00 LOL 76.99 VL 27.686 GAL 4.36 AZL 87.01 MCA 174.98 SMA 128.21 ECC .16698 INC 2.9925 VI 30.241
 RP 108.58 LAP .26 LOP 251.98 VP 37.541 GAP -3.87 AZP 92.98 TAL 157.29 TAP 332.27 RCA 106.80 APO 149.62 V2 34.900
 RC 63.000 GL 22.17 GP 4.02 ZAL 52.65 ZAP 43.16 ETS 358.00 ZAE 164.28 ETE 3.74 ZAC 121.16 ETC 163.01 CLP -43.01

PLANETOCENTRIC CONIC

C3 14.587 VHL 3.819 DLA 31.25 RAL 16.84 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 3.755 DPA 12.49 RAP 26.26 ECC 1.2401
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.20 23 25 4 3814.19 -23.44 155.30 241.26 68.72 24 28 38 3214.2 -26.12 147.41
 103.80 3 7 15 3113.16 -23.43 103.51 241.26 68.70 3 59 8 2513.2 -26.11 95.62
 76.20 23 25 4 3814.19 -23.44 155.30 241.26 68.72 24 28 38 3214.2 -26.12 147.41
 103.80 3 7 15 3113.16 -23.43 103.51 241.26 68.70 3 59 8 2513.2 -26.11 95.62
 110.00 5 34 12 2655.92 -32.43 71.57 244.25 78.54 6 18 28 2055.9 -33.67 62.56
 110.00 2 1 14 3319.42 -15.02 114.82 236.88 58.93 2 56 33 2719.4 -19.02 108.00

DIFFERENTIAL CORRECTIONS

TDE -.7447 TRA-1.0963 TC3 .4120 BAU .0845 SGT 2246.8 SGR 357.6 SG3 1152.2 ST 1257.4 SR 232.2 SS 2624.8
 RDE -.1454 RRA -.1507 RC3 .1335 FAU .11142 RRT .9763 RRF -.9946 RTF -.9616 CRT .9918 CRS .9997 CST .9943
 FDE 5.0259 FRA 5.5685 FC3-6.6124 BSP 7768 SGB 2275.0 R23 -.2529 R13 -.9629 LSA 2917.2 MSA 121.2 SSA 1.8
 BDE .7587 BRA 1.1066 BC3 .4331 FSP -3456 SG1 2273.8 SG2 76.5 THA 8.84 EL1 1278.3 EL2 29.2 ALF 10.38

LAUNCH DATE DEC 9 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -0.00 LOL 76.99 VL 27.714 GAL 4.28 AZL 87.70 MCA 178.16 SMA 128.40 ECC .16481 INC 2.2773 VI 30.241
 RP 108.62 LAP .07 LOP 255.15 VP 37.551 GAP -3.40 AZP 92.29 TAL 157.38 TAP 335.54 RCA 107.24 APO 149.56 V2 34.889
 RC 65.076 GL 17.66 GP 11.47 ZAL 51.33 ZAP 48.00 ETS 351.77 ZAE 163.72 ETE 32.02 ZAC 117.77 ETC 159.32 CLP -46.94

PLANETOCENTRIC CONIC

C3 13.315 VHL 3.649 DLA 27.13 RAL 18.97 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 3.618 DPA 19.01 RAP 22.45 ECC 1.2191
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 38 26 3209.04 -25.97 111.38 242.30 78.29 3 31 55 2609.0 -27.32 102.97
 90.00 0 14 45 3678.23 -15.97 142.02 238.89 66.30 1 16 4 3078.2 -19.04 134.69
 100.00 4 35 26 2831.85 -28.81 84.19 242.87 81.64 5 22 38 2231.9 -29.66 75.49
 100.00 1 0 26 3530.64 -13.36 129.91 237.61 63.01 1 59 17 2930.6 -16.88 122.88
 110.00 6 39 49 2442.67 -34.14 55.20 243.43 88.07 7 20 31 1842.7 -34.03 45.95
 110.00 1 12 33 3492.59 -8.73 124.30 234.88 56.82 2 10 46 2892.6 -13.04 117.85

DIFFERENTIAL CORRECTIONS

TDE -.6234 TRA-1.0367 TC3 .2965 BAU .0919 SGT 2085.7 SGR 914.6 SG3 1265.3 ST 1122.2 SR 526.4 SS 2629.2
 RDE -.3062 RRA -.4048 RC3 .4226 FAU .11051 RRT .9666 RRF -.9997 RTF -.9605 CRT .9957 CRS 1.0000 CST .9953
 FDE 4.9011 FRA 6.4056 FC3-7.1857 BSP 6873 SGB 2277.4 R23 -.2387 R13 -.9711 LSA 2905.0 MSA 100.0 SSA .4
 BDE .6945 BRA 1.1129 BC3 .5163 FSP -3301 SG1 2267.2 SG2 215.8 THA 23.19 EL1 1238.7 EL2 44.0 ALF 25.07

LAUNCH DATE DEC 9 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 420.039

RL 147.33 LAL -.00 LOL 76.99 VL 27.738 GAL 4.21 AZL 85.11 HCA 181.34 SMA 128.57 ECC .16294 INC 4.8838 VI 30.241
 RP 108.65 LAP -.11 LOP 258.33 VP 37.559 GAP -2.93 AZP 94.89 TAL 157.45 TAP 338.79 RCA 107.62 APO 149.52 V2 34.878
 RC 67.198 GL 34.02 GP -16.28 ZAL 57.78 ZAP 53.00 ETS 15.05 ZAE 157.50 ETE 305.45 ZAC 123.96 ETC 175.91 CLP -51.18

PLANETOCENTRIC CONIC

C3 17.794 VHL 4.218 DLA 41.54 RAL 9.45 RAD 6567.7 VEL 11.797 PTH 2.09 VHP 3.504 DPA -6.91 RAP 32.56 ECC 1.2928
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.24 21 15 9 4159.94 -29.00 185.89 240.73 58.85 22 24 29 3559.9 -32.89 178.15
 121.76 4 18 10 2857.84 -28.99 86.26 240.72 58.84 5 5 48 2257.8 -32.88 78.53
 58.24 21 15 9 4159.94 -29.00 185.89 240.73 58.85 22 24 29 3559.9 -32.89 178.15
 121.76 4 18 10 2857.84 -28.99 86.26 240.72 58.84 5 5 48 2257.8 -32.88 78.53
 58.24 21 15 9 4159.94 -29.00 185.89 240.73 58.85 22 24 29 3559.9 -32.89 178.15
 121.76 4 18 10 2857.84 -28.99 86.26 240.72 58.84 5 5 48 2257.8 -32.88 78.53

DIFFERENTIAL CORRECTIONS

TOE -.8200 TRA -.8702 TC3 .1343 BAU .1039
 RDE .6510 RRA .4036 RC3 -.4157 FAU .10714
 FDE 8.3173 FRA 5.5871 FC3-5.2126 BSP 6548
 BOE 1.0470 BRA .9593 BC3 .4368 FSP -3405

MID-COURSE EXECUTION ACCURACY

SGT 1935.7 SGR 1200.6 SG3 1365.4
 RRT -.9386 RRF .9992 RTF -.9510
 SGB 2277.8 R23 -.2172 R13 .9760
 SG1 2249.8 SG2 356.4 THA 148.93

ORBIT DETERMINATION ACCURACY

ST 1210.4 SR 911.2 SS 3542.3
 CRT -.9874 CRS -.9998 CST .9903
 LSA 3849.3 MSA 162.1 SSA .9
 EL1 1510.6 EL2 115.5 ALF 143.12

LAUNCH DATE DEC 9 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 426.492

RL 147.33 LAL -.00 LOL 76.99 VL 27.759 GAL 4.15 AZL 86.16 HCA 184.52 SMA 128.72 ECC .16137 INC 3.8398 VI 30.241
 RP 108.68 LAP -.30 LOP 261.50 VP 37.565 GAP -2.47 AZP 93.83 TAL 157.49 TAP 342.01 RCA 107.95 APO 149.49 V2 34.867
 RC 69.360 GL 28.37 GP -5.20 ZAL 55.25 ZAP 56.05 ETS 5.68 ZAE 167.82 ETE 323.34 ZAC 120.54 ETC 168.70 CLP -55.89

PLANETOCENTRIC CONIC

C3 15.225 VHL 3.902 DLA 36.64 RAL 13.11 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 3.228 DPA 2.70 RAP 26.81 ECC 1.2506
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.71 22 5 34 4021.81 -26.95 173.11 240.01 64.18 23 12 35 3421.8 -30.19 165.19
 114.29 3 57 0 2924.66 -26.94 90.57 240.00 64.16 4 45 45 2324.7 -30.18 82.66
 65.71 22 5 34 4021.81 -26.95 173.11 240.01 64.18 23 12 35 3421.8 -30.19 165.19
 114.29 3 57 0 2924.66 -26.94 90.57 240.00 64.16 4 45 45 2324.7 -30.18 82.66
 65.71 22 5 34 4021.81 -26.95 173.11 240.01 64.18 23 12 35 3421.8 -30.19 165.19
 114.29 3 57 0 2924.66 -26.94 90.57 240.00 64.16 4 45 45 2324.7 -30.18 82.66

DIFFERENTIAL CORRECTIONS

TOE -.5342 TRA -.7360 TC3 .1404 BAU .0452
 RDE .1862 RRA .1159 RC3 -.1721 FAU .14488
 FDE 7.7881 FRA 6.6274 FC3-8.2380 BSP 5828
 BOE .5657 BRA .7450 BC3 .2221 FSP -4749

MID-COURSE EXECUTION ACCURACY

SGT 1562.4 SGR 371.2 SG3 1543.6
 RRT -.8877 RRF .9896 RTF -.9317
 SGB 1605.9 R23 -.3320 R13 .9394
 SG1 1597.2 SG2 167.2 THA 167.96

ORBIT DETERMINATION ACCURACY

ST 882.4 SR 280.8 SS 3347.7
 CRT -.9696 CRS -.9968 CST .9859
 LSA 3470.4 MSA 145.0 SSA 2.1
 EL1 923.6 EL2 65.6 ALF 162.76

LAUNCH DATE DEC 9 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 432.925

RL 147.33 LAL -.00 LOL 76.99 VL 27.777 GAL 4.11 AZL 86.35 HCA 187.70 SMA 128.84 ECC .16007 INC 3.6540 VI 30.241
 RP 108.72 LAP -.49 LOP 264.67 VP 37.569 GAP -2.03 AZP 93.62 TAL 157.50 TAP 345.19 RCA 108.22 APO 149.47 V2 34.858
 RC 71.560 GL 27.43 GP -3.20 ZAL 54.87 ZAP 60.85 ETS 3.86 ZAE 171.52 ETE 322.91 ZAC 118.38 ETC 167.63 CLP -60.80

PLANETOCENTRIC CONIC

C3 14.695 VHL 3.833 DLA 35.81 RAL 13.66 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 3.084 DPA 3.85 RAP 24.43 ECC 1.2418
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.09 22 15 15 3991.56 -26.61 170.50 239.71 65.09 23 21 47 3391.6 -29.73 162.56
 112.91 3 51 40 2939.07 -26.60 91.54 239.70 65.08 4 40 39 2339.1 -29.72 83.61
 67.09 22 15 15 3991.56 -26.61 170.50 239.71 65.09 23 21 47 3391.6 -29.73 162.56
 112.91 3 51 40 2939.07 -26.60 91.54 239.70 65.08 4 40 39 2339.1 -29.72 83.61
 67.09 22 15 15 3991.56 -26.61 170.50 239.71 65.09 23 21 47 3391.6 -29.73 162.56
 112.91 3 51 40 2939.07 -26.60 91.54 239.70 65.08 4 40 39 2339.1 -29.72 83.61

DIFFERENTIAL CORRECTIONS

TOE -.3764 TRA -.6029 TC3 -.0030 BAU .0192
 RDE .1357 RRA .0633 RC3 -.0977 FAU .15630
 FDE 8.2345 FRA 7.2991 FC3-9.2082 BSP 4673
 BOE .4001 BRA .6063 BC3 .0978 FSP -5135

MID-COURSE EXECUTION ACCURACY

SGT 1245.6 SGR 245.7 SG3 1689.3
 RRT -.7961 RRF .9566 RTF -.8975
 SGB 1269.6 R23 -.3832 R13 .9048
 SG1 1261.1 SG2 146.9 THA 170.95

ORBIT DETERMINATION ACCURACY

ST 654.0 SR 205.8 SS 3452.0
 CRT -.9344 CRS -.9894 CST .9762
 LSA 3516.5 MSA 142.9 SSA 3.3
 EL1 682.0 EL2 70.3 ALF 163.43

LAUNCH DATE DEC 9 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 439.335

RL 147.33 LAL -.00 LOL 76.99 VL 27.792 GAL 4.09 AZL 86.42 HCA 190.87 SMA 128.94 ECC .15905 INC 3.5772 VI 30.241
 RP 108.74 LAP -.67 LOP 267.84 VP 37.572 GAP -1.59 AZP 93.51 TAL 157.48 TAP 348.35 RCA 108.44 APO 149.45 V2 34.848
 RC 73.792 GL 27.10 GP -2.36 ZAL 54.72 ZAP 66.01 ETS 3.03 ZAE 174.61 ETE 310.09 ZAC 116.22 ETC 167.27 CLP -65.99

PLANETOCENTRIC CONIC

C3 14.422 VHL 3.798 DLA 35.53 RAL 13.88 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 2.968 DPA 3.82 RAP 22.25 ECC 1.2373
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.58 22 18 51 3979.26 -26.53 169.48 239.54 65.45 23 25 10 3379.3 -29.61 161.53
 112.42 3 49 50 2943.03 -26.52 91.82 239.53 65.44 4 38 53 2343.0 -29.60 83.87
 67.58 22 18 51 3979.26 -26.53 169.48 239.54 65.45 23 25 10 3379.3 -29.61 161.53
 112.42 3 49 50 2943.03 -26.52 91.82 239.53 65.44 4 38 53 2343.0 -29.60 83.87
 67.58 22 18 51 3979.26 -26.53 169.48 239.54 65.45 23 25 10 3379.3 -29.61 161.53
 112.42 3 49 50 2943.03 -26.52 91.82 239.53 65.44 4 38 53 2343.0 -29.60 83.87

DIFFERENTIAL CORRECTIONS

TOE -.2084 TRA -.4499 TC3 -.1686 BAU .0346
 RDE .1249 RRA .0411 RC3 -.0619 FAU .16846
 FDE 8.6858 FRA 7.8133 FC-10.1125 BSP 3524
 BOE .2430 BRA .4518 BC3 .1797 FSP -5592

MID-COURSE EXECUTION ACCURACY

SGT 900.6 SGR 208.6 SG3 1813.4
 RRT -.6213 RRF .8983 RTF -.8051
 SGB 924.4 R23 -.4866 R13 .8183
 SG1 910.1 SG2 161.7 THA 171.54

ORBIT DETERMINATION ACCURACY

ST 401.9 SR 189.8 SS 3541.2
 CRT -.8516 CRS -.9801 CST .9384
 LSA 3566.1 MSA 143.3 SSA 4.3
 EL1 434.8 EL2 92.0 ALF 157.00

LAUNCH DATE DEC 9 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 445.724

RL 147.33 LAL -.00 LOL 76.99 VL 27.804 GAL 4.07 AZL 86.47 HCA 194.04 SMA 129.03 ECC .15827 INC 3.5347 V1 30.241
 RP 108.77 LAP -.86 LOP 271.01 VP 37.572 GAP -1.16 AZP 93.43 TAL 157.42 TAP 351.46 RCA 108.61 APO 149.45 V2 34.839
 RC 76.053 GL 26.93 GP -1.89 ZAL 54.59 ZAP 71.43 ETS 2.50 ZAE 176.50 ETE 267.79 ZAC 113.92 ETC 167.13 CLP -71.42

PLANETOCENTRIC CONIC

C3 14.258 VHL 3.776 DLA 35.41 RAL 14.05 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 2.877 DPA 3.34 RAP 19.99 ECC 1.2346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.80 22 20 42 3973.19 -26.52 168.99 239.48 65.61 23 26 55 3373.2 -29.57 161.03
 112.20 3 49 19 2944.04 -26.51 91.89 239.48 65.61 4 38 23 2344.0 -29.56 83.93
 67.80 22 20 42 3973.19 -26.52 168.99 239.48 65.63 23 26 55 3373.2 -29.57 161.03
 112.20 3 49 19 2944.04 -26.51 91.89 239.48 65.61 4 38 23 2344.0 -29.56 83.93
 67.80 22 20 42 3973.19 -26.52 168.99 239.48 65.63 23 26 55 3373.2 -29.57 161.03
 112.20 3 49 19 2944.04 -26.51 91.89 239.48 65.61 4 38 23 2344.0 -29.56 83.93

DIFFERENTIAL CORRECTIONS

TOE -.0273 TRA -.2838 TC3 -.3663 BAU .0702
 RDE .1261 RRA .0290 RC3 -.0381 FAU .17861
 FDE 9.0962 FRA 8.2574 FC-10.8450 BSP 2217
 BDE .1290 BRA .2853 BC3 .3682 FSP -5983

MID-COURSE EXECUTION ACCURACY

SGT 597.9 SGR 200.9 SG3 1920.2
 RRT -.2369 RRF .8301 RTF -.4839
 SGB 630.7 R23 -.7221 R13 .5049
 SG1 600.0 SG2 194.5 THA 174.91

ORBIT DETERMINATION ACCURACY

ST 164.1 SR 192.0 SS 3617.8
 CRT -.3327 CRS -.9717 CST .5447
 LSA 3623.7 MSA 144.8 SSA 5.2
 EL1 208.6 EL2 142.4 ALF 122.29

LAUNCH DATE DEC 9 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 452.091

RL 147.33 LAL -.00 LOL 76.99 VL 27.814 GAL 4.07 AZL 86.49 HCA 197.21 SMA 129.10 ECC .15775 INC 3.5078 V1 30.241
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.572 GAP -.74 AZP 93.35 TAL 157.33 TAP 354.54 RCA 108.73 APO 149.46 V2 34.831
 RC 78.340 GL 26.81 GP -1.58 ZAL 54.45 ZAP 77.04 ETS 2.11 ZAE 174.98 ETE 217.39 ZAC 111.48 ETC 167.07 CLP -77.03

PLANETOCENTRIC CONIC

C3 14.165 VHL 3.764 DLA 35.35 RAL 14.23 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 2.810 DPA 2.62 RAP 17.63 ECC 1.2331
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.90 22 22 2 3969.91 -26.51 168.73 239.54 65.72 23 28 12 3369.9 -29.56 160.76
 112.10 3 49 25 2944.43 -26.50 91.92 239.54 65.71 4 38 30 2344.4 -29.55 83.96
 67.90 22 22 2 3969.91 -26.51 168.73 239.54 65.72 23 28 12 3369.9 -29.56 160.76
 112.10 3 49 25 2944.43 -26.50 91.92 239.54 65.71 4 38 30 2344.4 -29.55 83.96
 67.90 22 22 2 3969.91 -26.51 168.73 239.54 65.72 23 28 12 3369.9 -29.56 160.76
 112.10 3 49 25 2944.43 -26.50 91.92 239.54 65.71 4 38 30 2344.4 -29.55 83.96

DIFFERENTIAL CORRECTIONS

TOE .1668 TRA -.1056 TC3 -.5883 BAU .1115
 RDE .1317 RRA .0209 RC3 -.0195 FAU .18684
 FDE 9.3907 FRA 8.5920 FC-11.4191 BSP 842
 BDE .2125 BRA .1077 BC3 .5887 FSP -6322

MID-COURSE EXECUTION ACCURACY

SGT 547.2 SGR 204.7 SG3 1999.2
 RRT .4435 RRF .7637 RTF .3376
 SGB 584.3 R23 .6634 R13 .3784
 SG1 555.6 SG2 180.7 THA 10.55

ORBIT DETERMINATION ACCURACY

ST 261.0 SR 200.8 SS 3663.0
 CRT .9579 CRS -.9647 CST -.8503
 LSA 3674.9 MSA 146.6 SSA 6.1
 EL1 326.1 EL2 46.1 ALF 37.25

LAUNCH DATE DEC 9 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 458.436

RL 147.33 LAL -.00 LOL 76.99 VL 27.821 GAL 4.08 AZL 86.51 HCA 200.38 SMA 129.14 ECC .15747 INC 3.4888 V1 30.241
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.570 GAP -.33 AZP 93.27 TAL 157.19 TAP 357.57 RCA 108.81 APO 149.48 V2 34.824
 RC 80.651 GL 26.70 GP -1.36 ZAL 54.27 ZAP 82.77 ETS 1.78 ZAE 171.54 ETE 198.48 ZAC 108.94 ETC 167.03 CLP -82.77

PLANETOCENTRIC CONIC

C3 14.129 VHL 3.759 DLA 35.31 RAL 14.45 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 2.769 DPA 1.77 RAP 15.20 ECC 1.2325
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.97 22 23 17 3968.29 -26.50 168.60 239.72 65.77 23 29 25 3368.3 -29.54 160.63
 112.03 3 49 58 2944.94 -26.49 91.96 239.71 65.75 4 39 3 2344.9 -29.53 83.99
 67.97 22 23 17 3968.29 -26.50 168.60 239.72 65.77 23 29 25 3368.3 -29.54 160.63
 112.03 3 49 58 2944.94 -26.49 91.96 239.71 65.75 4 39 3 2344.9 -29.53 83.99
 67.97 22 23 17 3968.29 -26.50 168.60 239.72 65.77 23 29 25 3368.3 -29.54 160.63
 112.03 3 49 58 2944.94 -26.49 91.96 239.71 65.75 4 39 3 2344.9 -29.53 83.99

DIFFERENTIAL CORRECTIONS

TOE .3701 TRA .0816 TC3 -.8294 BAU .1567
 RDE .1388 RRA .0147 RC3 -.0031 FAU .19196
 FDE 9.5515 FRA 8.8166 FC-11.7616 BSP 942
 BDE .3953 BRA .0829 BC3 .8294 FSP -6551

MID-COURSE EXECUTION ACCURACY

SGT 854.6 SGR 213.4 SG3 2047.1
 RRT .6854 RRF .7026 RTF .8019
 SGB 880.8 R23 .1849 R13 .8081
 SG1 867.4 SG2 153.1 THA 10.03

ORBIT DETERMINATION ACCURACY

ST 566.3 SR 211.8 SS 3678.3
 CRT .9986 CRS -.9586 CST -.9697
 LSA 3724.7 MSA 148.9 SSA 6.8
 EL1 604.5 EL2 10.6 ALF 20.48

LAUNCH DATE DEC 9 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 464.760

RL 147.33 LAL -.00 LOL 76.99 VL 27.825 GAL 4.11 AZL 86.53 HCA 203.55 SMA 129.18 ECC .15742 INC 3.4750 V1 30.241
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.567 GAP .08 AZP 93.19 TAL 157.02 TAP .57 RCA 108.84 APO 149.51 V2 34.816
 RC 82.981 GL 26.57 GP -1.20 ZAL 54.04 ZAP 88.54 ETS 1.50 ZAE 167.62 ETE 190.98 ZAC 106.38 ETC 166.99 CLP -88.54

PLANETOCENTRIC CONIC

C3 14.144 VHL 3.761 DLA 35.28 RAL 14.73 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 2.752 DPA .85 RAP 12.76 ECC 1.2328
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.02 22 24 44 3967.53 -26.48 168.52 240.00 65.78 23 30 51 3367.5 -29.51 160.55
 111.98 3 50 45 2946.17 -26.46 92.04 240.00 65.77 4 39 51 2346.2 -29.50 84.07
 68.02 22 24 44 3967.53 -26.48 168.52 240.00 65.78 23 30 51 3367.5 -29.51 160.55
 111.98 3 50 45 2946.17 -26.46 92.04 240.00 65.77 4 39 51 2346.2 -29.50 84.07
 68.02 22 24 44 3967.53 -26.48 168.52 240.00 65.78 23 30 51 3367.5 -29.51 160.55
 111.98 3 50 45 2946.17 -26.46 92.04 240.00 65.77 4 39 51 2346.2 -29.50 84.07

DIFFERENTIAL CORRECTIONS

TOE .5778 TRA .2745 TC3-1.0825 BAU .2047
 RDE .1463 RRA .0090 RC3 .0126 FAU .19337
 FDE 9.5605 FRA 8.9205 FC-11.8354 BSP 2523
 BDE .5960 BRA .2747 BC3 1.0826 FSP -6650

MID-COURSE EXECUTION ACCURACY

SGT 1303.9 SGR 223.7 SG3 2060.1
 RRT .6754 RRF .6450 RTF .9198
 SGB 1323.0 R23 .0187 R13 .9202
 SG1 1312.8 SG2 163.8 THA 6.71

ORBIT DETERMINATION ACCURACY

ST 893.8 SR 222.9 SS 3661.5
 CRT .9883 CRS -.9528 CST -.9876
 LSA 3772.6 MSA 151.3 SSA 7.5
 EL1 920.6 EL2 33.0 ALF 13.86

LAUNCH DATE DEC 9 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 471.063

RL 147.33 LAL -1.00 LOL 76.99 VL 27.828 GAL 4.15 AZL 86.54 MCA 206.72 SMA 129.19 ECC .15759 INC 3.4641 V1 30.241
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.563 GAP .48 AZP 93.10 TAL 156.81 TAP 3.52 RCA 108.84 APO 149.55 V2 34.810
 RC 85.328 GL 26.42 GP -1.06 ZAL 53.76 ZAP 94.26 ETS 1.25 ZAE 163.59 ETE 187.19 ZAC 103.87 ETC 166.94 CLP -94.26

PLANETOCENTRIC CONIC

C3 14.206 VHL 3.769 CLA 35.25 RAL 15.07 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 2.760 DPA -.08 RAP 10.37 ECC 1.2338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.08 22 26 26 3967.50 -26.43 168.50 240.40 65.78 23 32 33 3367.5 -29.46 160.53
 111.92 3 51 47 2948.13 -26.41 92.17 240.39 65.77 4 40 56 2348.1 -29.45 84.21
 68.08 22 26 26 3967.50 -26.43 168.50 240.40 65.78 23 32 33 3367.5 -29.46 160.53
 111.92 3 51 47 2948.13 -26.41 92.17 240.39 65.77 4 40 56 2348.1 -29.45 84.21
 68.08 22 26 26 3967.50 -26.43 168.50 240.40 65.78 23 32 33 3367.5 -29.46 160.53
 111.92 3 51 47 2948.13 -26.41 92.17 240.39 65.77 4 40 56 2348.1 -29.45 84.21

DIFFERENTIAL CORRECTIONS

TDE .7847 TRA .4700 TC3-1.3356 BAU .2537
 RDE .1533 RRA .0032 RC3 .0278 FAU .19228
 FDE 9.3969 FRA 8.8782 FC-11.7177 BSP 4172
 BDE .7996 BRA .4700 BC3 1.3359 FSP -6672

MID-COURSE EXECUTION ACCURACY

SGT 1789.4 SGR 234.1 SG3 2035.7
 RRT .6259 RRF .5880 RTF .9580
 SGB 1804.6 R23 -.0228 R13 .9578
 SG1 1795.4 SG2 182.0 THA 4.73

ORBIT DETERMINATION ACCURACY

ST 1221.8 SR 233.1 SS 3605.6
 CRT .9779 CRS -.9470 CST -.9931
 LSA 3811.0 MSA 153.7 SSA 8.1
 EL1 1242.9 EL2 47.9 ALF 10.58

LAUNCH DATE DEC 9 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 477.345

RL 147.33 LAL -1.00 LOL 76.99 VL 27.828 GAL 4.20 AZL 86.54 MCA 209.88 SMA 129.20 ECC .15798 INC 3.4554 V1 30.241
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.558 GAP .88 AZP 93.00 TAL 156.56 TAP 6.44 RCA 108.79 APO 149.61 V2 34.804
 RC 87.691 GL 26.24 GP -.94 ZAL 53.43 ZAP 99.85 ETS 1.03 ZAE 159.60 ETE 184.96 ZAC 101.50 ETC 166.87 CLP -99.85

PLANETOCENTRIC CONIC

C3 14.314 VHL 3.783 CLA 35.20 RAL 15.48 RAD 6567.6 VEL 11.649 PTH 2.05 VHP 2.791 DPA -.98 RAP 8.12 ECC 1.2356
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.15 22 28 27 3967.98 -26.35 168.49 240.91 65.76 23 34 35 3368.0 -29.39 160.54
 111.85 3 53 1 2950.98 -26.34 92.36 240.90 65.75 4 42 12 2351.0 -29.38 84.40
 68.15 22 28 27 3967.98 -26.35 168.49 240.91 65.76 23 34 35 3368.0 -29.39 160.54
 111.85 3 53 1 2950.98 -26.34 92.36 240.90 65.75 4 42 12 2351.0 -29.38 84.40
 68.15 22 28 27 3967.98 -26.35 168.49 240.91 65.76 23 34 35 3368.0 -29.39 160.54
 111.85 3 53 1 2950.98 -26.34 92.36 240.90 65.75 4 42 12 2351.0 -29.38 84.40

DIFFERENTIAL CORRECTIONS

TDE .9863 TRA .6647 TC3-1.5820 BAU .3028
 RDE .1600 RRA -.0027 RC3 .0430 FAU .18787
 FDE 9.0974 FRA 8.7201 FC-11.3627 BSP 5821
 BDE .9992 BRA .6647 BC3 1.5826 FSP -6577

MID-COURSE EXECUTION ACCURACY

SGT 2276.3 SGR 244.5 SG3 1979.6
 RRT .5690 RRF .5313 RTF .9737
 SGB 2289.4 R23 -.0329 R13 .9735
 SG1 2280.6 SG2 200.7 THA 3.52

ORBIT DETERMINATION ACCURACY

ST 1539.1 SR 242.3 SS 3522.1
 CRT .9688 CRS -.9410 CST -.9954
 LSA 3848.2 MSA 156.1 SSA 8.6
 EL1 1556.9 EL2 59.3 ALF 8.68

LAUNCH DATE DEC 9 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 483.605

RL 147.33 LAL -1.00 LOL 76.99 VL 27.827 GAL 4.27 AZL 86.55 MCA 213.04 SMA 129.19 ECC .15859 INC 3.4482 V1 30.241
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.552 GAP 1.27 AZP 92.89 TAL 156.26 TAP 9.31 RCA 108.70 APO 149.68 V2 34.799
 RC 90.065 GL 26.03 GP -.84 ZAL 53.05 ZAP 105.23 ETS .84 ZAE 155.74 ETE 183.49 ZAC 99.32 ETC 166.80 CLP -105.23

PLANETOCENTRIC CONIC

C3 14.467 VHL 3.804 CLA 35.15 RAL 15.96 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.844 DPA -1.80 RAP 6.06 ECC 1.2381
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.24 22 30 51 3968.80 -26.25 168.51 241.53 65.73 23 37 0 3368.8 -29.29 160.56
 111.76 3 54 25 2954.87 -26.24 92.62 241.52 65.72 4 43 39 2354.9 -29.28 84.67
 68.24 22 30 51 3968.80 -26.25 168.51 241.53 65.73 23 37 0 3368.8 -29.29 160.56
 111.76 3 54 25 2954.87 -26.24 92.62 241.52 65.72 4 43 39 2354.9 -29.28 84.67
 68.24 22 30 51 3968.80 -26.25 168.51 241.53 65.73 23 37 0 3368.8 -29.29 160.56
 111.76 3 54 25 2954.87 -26.24 92.62 241.52 65.72 4 43 39 2354.9 -29.28 84.67

DIFFERENTIAL CORRECTIONS

TDE 1.1780 TRA .8561 TC3-1.8144 BAU .3511
 RDE .1662 RRA -.0090 RC3 .0578 FAU .18082
 FDE 8.6830 FRA 8.4639 FC-10.8207 BSP 7433
 BDE 1.1897 BRA .8561 BC3 1.8153 FSP -6392

MID-COURSE EXECUTION ACCURACY

SGT 2746.2 SGR 254.8 SG3 1896.9
 RRT .5110 RRF .4747 RTF .9813
 SGB 2758.0 R23 -.0349 R13 .9812
 SG1 2749.3 SG2 218.8 THA 2.73

ORBIT DETERMINATION ACCURACY

ST 1837.0 SR 250.5 SS 3413.7
 CRT .9606 CRS -.9345 CST -.9966
 LSA 3881.4 MSA 158.5 SSA 9.0
 EL1 1852.7 EL2 69.0 ALF 7.47

LAUNCH DATE DEC 9 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 489.843

RL 147.33 LAL -1.00 LOL 76.99 VL 27.824 GAL 4.35 AZL 86.56 MCA 216.21 SMA 129.17 ECC .15941 INC 3.4422 V1 30.241
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.546 GAP 1.66 AZP 92.78 TAL 155.92 TAP 12.13 RCA 108.58 APO 149.76 V2 34.795
 RC 92.449 GL 25.78 GP -.76 ZAL 52.61 ZAP 110.35 ETS .68 ZAE 152.09 ETE 182.46 ZAC 97.40 ETC 166.72 CLP -110.35

PLANETOCENTRIC CONIC

C3 14.666 VHL 3.830 CLA 35.09 RAL 16.50 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 2.918 DPA -2.54 RAP 4.24 ECC 1.2414
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.35 22 33 39 3969.93 -26.12 168.53 242.26 65.69 23 39 49 3369.9 -29.17 160.60
 111.65 3 55 56 2959.80 -26.11 92.94 242.25 65.67 4 45 16 2359.8 -29.16 85.01
 68.35 22 33 39 3969.93 -26.12 168.53 242.26 65.69 23 39 49 3369.9 -29.17 160.60
 111.65 3 55 56 2959.80 -26.11 92.94 242.25 65.67 4 45 16 2359.8 -29.16 85.01
 68.35 22 33 39 3969.93 -26.12 168.53 242.26 65.69 23 39 49 3369.9 -29.17 160.60
 111.65 3 55 56 2959.80 -26.11 92.94 242.25 65.67 4 45 16 2359.8 -29.16 85.01

DIFFERENTIAL CORRECTIONS

TDE 1.3580 TRA 1.0429 TC3-2.0254 BAU .3974
 RDE .1724 RRA -.0153 RC3 .0722 FAU .17160
 FDE 8.1943 FRA 8.1368 FC-10.1297 BSP 8966
 BDE 1.3689 BRA 1.0430 BC3 2.0267 FSP -6127

MID-COURSE EXECUTION ACCURACY

SGT 3189.1 SGR 265.3 SG3 1795.5
 RRT .4550 RRF .4202 RTF .9855
 SGB 3200.1 R23 -.0344 R13 .9854
 SG1 3191.4 SG2 236.1 THA 2.18

ORBIT DETERMINATION ACCURACY

ST 2111.2 SR 258.1 SS 3289.3
 CRT .9528 CRS -.9277 CST -.9972
 LSA 3913.8 MSA 160.7 SSA 9.4
 EL1 2125.5 EL2 77.8 ALF 6.65

LAUNCH DATE DEC 9 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -.00 LOL 76.99 VL 27.819 GAL 4.45 AZL 86.56 MCA 219.37 SMA 129.13 ECC .16045 INC 3.4370 V1 30.241
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.539 GAP 2.05 AZP 92.66 TAL 155.55 TAP 14.92 RCA 108.41 APO 149.85 V2 34.791
 RC 94.840 GL 25.51 GP -.68 ZAL 52.12 ZAP 115.19 ETS .55 ZAE 148.68 ETE 181.70 ZAC 95.77 ETC 166.64 CLP-115.19

PLANETOCENTRIC CONIC

C3 14.912 VHL 3.862 DLA 35.02 RAL 17.11 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 3.010 DPA -3.16 RAP 2.69 ECC 1.2454
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.48 22 36 50 3971.33 -25.96 168.57 243.10 65.63 23 43 1 3371.3 -29.02 160.65
 111.52 3 57 36 2965.82 -25.95 93.34 243.09 65.62 4 47 1 2365.8 -29.01 85.42
 68.48 22 36 50 3971.33 -25.96 168.57 243.10 65.63 23 43 1 3371.3 -29.02 160.65
 111.52 3 57 36 2965.82 -25.95 93.34 243.09 65.62 4 47 1 2365.8 -29.01 85.42
 68.48 22 36 50 3971.33 -25.96 168.57 243.10 65.63 23 43 1 3371.3 -29.02 160.65
 111.52 3 57 36 2965.82 -25.95 93.34 243.09 65.62 4 47 1 2365.8 -29.01 85.42

DIFFERENTIAL CORRECTIONS

TDE 1.5246 TRA 1.2245 TC3-2.2116 BAU .4412
 RDE .1788 RRA -.0216 RC3 .0855 FAU .16094
 FDE 7.6632 FRA 7.7664 FC3-9.3439 BSP 10406
 BDE 1.5351 BRA 1.2246 BC3 2.2132 FSP -5805

MID-COURSE EXECUTION ACCURACY

SGT 3599.4 SGR 276.2 SG3 1682.8
 RRT .4028 RRF .3696 RTF .9880
 SGB 3610.0 R23 -.0330 R13 .9879
 SG1 3601.1 SG2 252.7 THA 1.78

ORBIT DETERMINATION ACCURACY

ST 2358.6 SR 265.6 SS 3154.7
 CRT .9455 CRS -.9208 CST -.9976
 LSA 3944.5 MSA 163.0 SSA 9.8
 EL1 2372.0 EL2 86.0 ALF 6.09

LAUNCH DATE DEC 9 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -.00 LOL 76.99 VL 27.813 GAL 4.56 AZL 86.57 MCA 222.53 SMA 129.09 ECC .16169 INC 3.4325 V1 30.241
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.531 GAP 2.43 AZP 92.53 TAL 155.13 TAP 17.66 RCA 108.22 APO 149.96 V2 34.788
 RC 97.236 GL 25.19 GP -.62 ZAL 51.58 ZAP 119.71 ETS .44 ZAE 145.54 ETE 181.12 ZAC 94.43 ETC 166.57 CLP-119.71

PLANETOCENTRIC CONIC

C3 15.206 VHL 3.900 DLA 34.93 RAL 17.78 RAD 6567.6 VEL 11.687 PTH 2.06 VHP 3.120 DPA -3.66 RAP 1.41 ECC 1.2503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.64 22 40 25 3972.96 -25.78 168.80 244.04 65.57 23 46 38 3373.0 -28.85 160.70
 111.36 3 59 21 2972.95 -25.77 93.81 244.03 65.56 4 48 54 2373.0 -28.84 85.91
 68.64 22 40 25 3972.96 -25.78 168.80 244.04 65.57 23 46 38 3373.0 -28.85 160.70
 111.36 3 59 21 2972.95 -25.77 93.81 244.03 65.56 4 48 54 2373.0 -28.84 85.91
 68.64 22 40 25 3972.96 -25.78 168.80 244.04 65.57 23 46 38 3373.0 -28.85 160.70
 111.36 3 59 21 2972.95 -25.77 93.81 244.03 65.56 4 48 54 2373.0 -28.84 85.91

DIFFERENTIAL CORRECTIONS

TDE 1.6796 TRA 1.4030 TC3-2.3661 BAU .4814
 RDE .1858 RRA -.0277 RC3 .0977 FAU .14890
 FDE 7.1285 FRA 7.3844 FC3-8.4773 BSP 11702
 BDE 1.6899 BRA 1.4032 BC3 2.3681 FSP -5426

MID-COURSE EXECUTION ACCURACY

SGT 3977.1 SGR 287.7 SG3 1566.1
 RRT .3567 RRF .3256 RTF .9894
 SGB 3987.5 R23 -.0310 R13 .9893
 SG1 3978.4 SG2 268.7 THA 1.48

ORBIT DETERMINATION ACCURACY

ST 2581.2 SR 273.3 SS 3019.5
 CRT .9385 CRS -.9140 CST -.9978
 LSA 3978.4 MSA 165.3 SSA 10.2
 EL1 2593.9 EL2 93.9 ALF 5.68

LAUNCH DATE DEC 9 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -.00 LOL 76.99 VL 27.805 GAL 4.68 AZL 86.57 MCA 225.69 SMA 129.04 ECC .16315 INC 3.4285 V1 30.241
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.523 GAP 2.82 AZP 92.40 TAL 154.67 TAP 20.37 RCA 107.98 APO 150.09 V2 34.786
 RC 99.636 GL 24.85 GP -.56 ZAL 50.98 ZAP 123.92 ETS .35 ZAE 142.67 ETE 180.66 ZAC 93.40 ETC 166.51 CLP-123.92

PLANETOCENTRIC CONIC

C3 15.552 VHL 3.944 DLA 34.82 RAL 18.51 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 3.245 DPA -4.04 RAP .43 ECC 1.2559
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.83 22 44 25 3974.79 -25.57 168.64 245.08 65.51 23 50 39 3374.8 -28.65 160.76
 111.17 4 1 12 2981.25 -25.55 94.35 245.07 65.49 4 50 53 2381.2 -28.63 86.47
 68.83 22 44 25 3974.79 -25.57 168.64 245.08 65.51 23 50 39 3374.8 -28.65 160.76
 111.17 4 1 12 2981.25 -25.55 94.35 245.07 65.49 4 50 53 2381.2 -28.63 86.47
 68.83 22 44 25 3974.79 -25.57 168.64 245.08 65.51 23 50 39 3374.8 -28.65 160.76
 111.17 4 1 12 2981.25 -25.55 94.35 245.07 65.49 4 50 53 2381.2 -28.63 86.47

DIFFERENTIAL CORRECTIONS

TDE 1.8192 TRA 1.5751 TC3-2.4961 BAU .5195
 RDE .1932 RRA -.0335 RC3 .1079 FAU .13725
 FDE 6.5855 FRA 6.9853 FC3-7.6404 BSP 12931
 BDE 1.8294 BRA 1.5755 BC3 2.4984 FSP -5066

MID-COURSE EXECUTION ACCURACY

SGT 4316.6 SGR 299.3 SG3 1447.6
 RRT .3168 RRF .2873 RTF .9903
 SGB 4327.0 R23 -.0293 R13 .9902
 SG1 4317.7 SG2 283.8 THA 1.26

ORBIT DETERMINATION ACCURACY

ST 2772.9 SR 281.3 SS 2877.1
 CRT .9320 CRS -.9074 CST -.9980
 LSA 4002.2 MSA 167.6 SSA 10.5
 EL1 2785.2 EL2 101.5 ALF 5.41

LAUNCH DATE DEC 9 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

RL 147.33 LAL -.00 LOL 76.99 VL 27.796 GAL 4.82 AZL 86.58 MCA 228.86 SMA 128.97 ECC .16483 INC 3.4249 V1 30.241
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.515 GAP 3.20 AZP 92.26 TAL 154.17 TAP 23.03 RCA 107.71 APO 150.23 V2 34.784
 RC 102.038 GL 24.47 GP -.51 ZAL 50.34 ZAP 127.83 ETS .29 ZAE 140.07 ETE 180.29 ZAC 92.66 ETC 166.47 CLP-127.83

PLANETOCENTRIC CONIC

C3 15.952 VHL 3.994 DLA 34.71 RAL 19.30 RAD 6567.6 VEL 11.719 PTH 2.06 VHP 3.384 DPA -4.30 RAP 359.73 ECC 1.2625
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.04 22 48 47 3976.84 -25.32 168.67 246.22 65.43 23 55 3 3376.8 -28.41 160.82
 110.96 4 3 8 2990.69 -25.31 94.97 246.22 65.42 4 52 58 2390.7 -28.40 87.12
 69.04 22 48 47 3976.84 -25.32 168.67 246.22 65.43 23 55 3 3376.8 -28.41 160.82
 110.96 4 3 8 2990.69 -25.31 94.97 246.22 65.42 4 52 58 2390.7 -28.40 87.12
 69.04 22 48 47 3976.84 -25.32 168.67 246.22 65.43 23 55 3 3376.8 -28.41 160.82
 110.96 4 3 8 2990.69 -25.31 94.97 246.22 65.42 4 52 58 2390.7 -28.40 87.12

DIFFERENTIAL CORRECTIONS

TDE 1.9469 TRA 1.7450 TC3-2.5966 BAU .5543
 RDE .2016 RRA -.0387 RC3 .1163 FAU .12566
 FDE 6.0663 FRA 6.5983 FC3-6.8197 BSP 14040
 BDE 1.9573 BRA 1.7454 BC3 2.5992 FSP -4701

MID-COURSE EXECUTION ACCURACY

SGT 4623.3 SGR 311.1 SG3 1332.9
 RRT .2844 RRF .2567 RTF .9908
 SGB 4633.8 R23 -.0274 R13 .9908
 SG1 4624.2 SG2 298.2 THA 1.10

ORBIT DETERMINATION ACCURACY

ST 2939.2 SR 289.9 SS 2737.6
 CRT .9259 CRS -.9010 CST -.9981
 LSA 4023.5 MSA 169.9 SSA 10.9
 EL1 2951.5 EL2 109.0 ALF 5.22

LAUNCH DATE DEC 9 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 520.710

RL 147.33 LAL -.00 LOL 76.99 VL 27.786 GAL 4.97 AZL 86.58 MCA 232.02 SMA 128.90 ECC .16672 INC 3.4216 V1 30.241
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.507 GAP 3.59 AZP 92.11 TAL 153.64 TAP 25.66 RCA 107.41 APO 150.39 V2 34.783
 RC 104.441 GL 24.07 GP -.46 ZAL 49.65 ZAP 131.45 ETS .25 ZAE 137.73 ETE 179.99 ZAC 92.20 ETC 166.44 CLP-131.45

PLANETOCENTRIC CONIC

C3 16.410 VHL 4.051 DLA 34.57 RAL 20.14 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 3.536 DPA -4.44 RAP 359.29 ECC 1.2701
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.28 22 53 33 3979.02 -25.05 168.71 247.46 65.35 23 59 52 3379.0 -28.15 160.88
 110.72 4 5 5 3001.41 -25.04 95.68 247.46 65.34 4 55 6 2401.4 -28.14 87.85
 69.28 22 53 33 3979.02 -25.05 168.71 247.46 65.35 23 59 52 3379.0 -28.15 160.88
 110.72 4 5 5 3001.41 -25.04 95.68 247.46 65.34 4 55 6 2401.4 -28.14 87.85
 69.28 22 53 33 3979.02 -25.05 168.71 247.46 65.35 23 59 52 3379.0 -28.15 160.88
 110.72 4 5 5 3001.41 -25.04 95.68 247.46 65.34 4 55 6 2401.4 -28.14 87.85

DIFFERENTIAL CORRECTIONS

TDE 2.0633 TRA 1.9126 TC3-2.6704 BAU .5865
 RDE .2108 RRA -.0434 RC3 .1226 FAU .11452
 FDE 3.5767 FRA 6.2279 FC3-6.0417 BSP 15056
 BOE 2.0740 BRA 1.9131 BC3 2.6733 FSP -4348

MID-COURSE EXECUTION ACCURACY

SGT 4898.1 SGR 322.9 SG3 1223.8
 RRT .2593 RRF .2335 RTF .9910
 SGB 4908.7 R23 -.0255 R13 .9910
 SG1 4898.8 SG2 311.8 THA .98

ORBIT DETERMINATION ACCURACY

ST 3080.9 SR 298.9 SS 2601.6
 CRT .9204 CRS -.8951 CST -.9982
 LSA 4039.8 MSA 172.4 SSA 11.2
 EL1 3093.2 EL2 116.4 ALF 5.11

LAUNCH DATE DEC 9 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 526.815

RL 147.33 LAL -.00 LOL 76.99 VL 27.774 GAL 5.14 AZL 86.58 MCA 235.18 SMA 128.82 ECC .16884 INC 3.4186 V1 30.241
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.498 GAP 3.98 AZP 91.95 TAL 153.07 TAP 28.25 RCA 107.07 APO 150.57 V2 34.783
 RC 106.844 GL 23.63 GP -.42 ZAL 48.92 ZAP 134.80 ETS .22 ZAE 135.63 ETE 179.75 ZAC 92.01 ETC 166.43 CLP-134.80

PLANETOCENTRIC CONIC

C3 16.930 VHL 4.115 DLA 34.43 RAL 21.03 RAD 6567.7 VEL 11.761 PTH 2.08 VHP 3.699 DPA -4.49 RAP 359.10 ECC 1.2786
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.55 22 58 43 3981.30 -24.75 168.73 248.79 65.27 24 5 5 3381.3 -27.87 160.93
 110.45 4 7 2 3013.45 -24.73 96.47 248.79 65.25 4 57 16 2413.5 -27.85 88.67
 69.55 22 58 43 3981.30 -24.75 168.73 248.79 65.27 24 5 5 3381.3 -27.87 160.93
 110.45 4 7 2 3013.45 -24.73 96.47 248.79 65.25 4 57 16 2413.5 -27.85 88.67
 69.55 22 58 43 3981.30 -24.75 168.73 248.79 65.27 24 5 5 3381.3 -27.87 160.93
 110.45 4 7 2 3013.45 -24.73 96.47 248.79 65.25 4 57 16 2413.5 -27.85 88.67

DIFFERENTIAL CORRECTIONS

TDE 2.1699 TRA 2.0807 TC3-2.7176 BAU .6158
 RDE .2209 RRA -.0473 RC3 .1269 FAU .10393
 FDE 5.1233 FRA 5.8829 FC3-5.3143 BSP 15967
 BOE 2.1811 BRA 2.0812 BC3 2.7206 FSP -4009

MID-COURSE EXECUTION ACCURACY

SGT 5144.7 SGR 334.5 SG3 1122.0
 RRT .2413 RRF .2174 RTF .9911
 SGB 5155.6 R23 -.0234 R13 .9911
 SG1 5145.4 SG2 324.6 THA .90

ORBIT DETERMINATION ACCURACY

ST 3200.7 SR 308.6 SS 2471.3
 CRT .9153 CRS -.8897 CST -.9982
 LSA 4051.7 MSA 175.1 SSA 11.5
 EL1 3213.1 EL2 123.8 ALF 5.05

LAUNCH DATE DEC 9 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 532.897

RL 147.33 LAL -.00 LOL 76.99 VL 27.762 GAL 5.33 AZL 86.58 MCA 238.34 SMA 128.74 ECC .17119 INC 3.4158 V1 30.241
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.490 GAP 4.37 AZP 91.79 TAL 152.47 TAP 30.81 RCA 106.70 APO 150.77 V2 34.784
 RC 109.246 GL 23.17 GP -.39 ZAL 48.15 ZAP 137.90 ETS .22 ZAE 133.75 ETE 179.55 ZAC 92.06 ETC 166.43 CLP-137.91

PLANETOCENTRIC CONIC

C3 17.519 VHL 4.186 DLA 34.26 RAL 21.97 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 3.874 DPA -4.43 RAP 359.14 ECC 1.2883
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.85 23 4 15 3983.79 -24.41 168.76 250.21 65.17 24 10 39 3383.8 -27.55 160.99
 110.15 4 9 1 3026.74 -24.40 97.34 250.21 65.16 4 59 27 2426.7 -27.54 89.57
 69.85 23 4 15 3983.79 -24.41 168.76 250.21 65.17 24 10 39 3383.8 -27.55 160.99
 110.15 4 9 1 3026.74 -24.40 97.34 250.21 65.16 4 59 27 2426.7 -27.54 89.57
 69.85 23 4 15 3983.79 -24.41 168.76 250.21 65.17 24 10 39 3383.8 -27.55 160.99
 110.15 4 9 1 3026.74 -24.40 97.34 250.21 65.16 4 59 27 2426.7 -27.54 89.57

DIFFERENTIAL CORRECTIONS

TDE 2.2708 TRA 2.2532 TC3-2.7342 BAU .6411
 RDE .2321 RRA -.0505 RC3 .1293 FAU .09360
 FDE 4.7153 FRA 5.5723 FC3-4.6255 BSP 16727
 BOE 2.2826 BRA 2.2537 BC3 2.7372 FSP -3673

MID-COURSE EXECUTION ACCURACY

SGT 5369.3 SGR 345.8 SG3 1029.0
 RRT .2303 RRF .2087 RTF .9910
 SGB 5380.4 R23 -.0210 R13 .9910
 SG1 5369.9 SG2 336.5 THA .85

ORBIT DETERMINATION ACCURACY

ST 3304.7 SR 318.7 SS 2351.1
 CRT .9108 CRS -.8848 CST -.9982
 LSA 4064.2 MSA 178.0 SSA 11.9
 EL1 3317.4 EL2 131.1 ALF 5.03

LAUNCH DATE DEC 9 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 538.954

RL 147.33 LAL -.00 LOL 76.99 VL 27.748 GAL 5.53 AZL 86.59 MCA 241.50 SMA 128.64 ECC .17378 INC 3.4132 V1 30.241
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.481 GAP 4.77 AZP 91.63 TAL 151.83 TAP 33.33 RCA 106.29 APO 151.00 V2 34.785
 RC 111.645 GL 22.68 GP -.36 ZAL 47.34 ZAP 140.78 ETS .22 ZAE 132.07 ETE 179.39 ZAC 92.32 ETC 166.44 CLP-140.79

PLANETOCENTRIC CONIC

C3 18.180 VHL 4.264 DLA 34.08 RAL 22.95 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.059 DPA -4.29 RAP 359.38 ECC 1.2992
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.18 23 10 10 3986.30 -24.05 168.77 251.72 65.08 24 16 37 3386.3 -27.20 161.03
 109.82 4 10 55 3041.50 -24.03 98.30 251.71 65.07 5 1 36 2441.5 -27.19 90.57
 70.18 23 10 10 3986.30 -24.05 168.77 251.72 65.08 24 16 37 3386.3 -27.20 161.03
 109.82 4 10 55 3041.50 -24.03 98.30 251.71 65.07 5 1 36 2441.5 -27.19 90.57
 110.00 4 31 45 2977.97 -25.77 94.20 252.57 66.73 5 21 23 2378.0 -28.69 86.24
 110.00 3 52 26 3097.82 -22.33 101.81 250.82 63.42 4 44 4 2497.8 -25.71 94.28

DIFFERENTIAL CORRECTIONS

TDE 2.3608 TRA 2.4246 TC3-2.7358 BAU .6657
 RDE .2441 RRA -.0529 RC3 .1296 FAU .08457
 FDE 4.3337 FRA 5.2771 FC3-4.0271 BSP 17491
 BOE 2.3733 BRA 2.4251 BC3 2.7388 FSP -3385

MID-COURSE EXECUTION ACCURACY

SGT 5566.1 SGR 356.6 SG3 942.6
 RRT .2243 RRF .2046 RTF .9909
 SGB 5577.5 R23 -.0190 R13 .9908
 SG1 5566.6 SG2 347.5 THA .83

ORBIT DETERMINATION ACCURACY

ST 3385.4 SR 329.0 SS 2232.4
 CRT .9067 CRS -.8803 CST -.9982
 LSA 4064.3 MSA 181.0 SSA 12.1
 EL1 3398.6 EL2 138.3 ALF 5.04

LAUNCH DATE DEC 9 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 544.985

RL 147.33 LAL -0.00 LOL 76.99 VL 27.734 GAL 5.75 AZL 86.59 HCA 244.66 SMA 128.54 ECC .17662 INC 3.4108 V1 30.241
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.472 GAP 5.17 AZP 91.46 TAL 151.16 TAP 35.83 RCA 105.84 APO 151.25 V2 34.787
 RC 114.042 GL 22.17 GP -33 ZAL 46.50 ZAP 143.46 ETS .24 ZAE 130.57 ETE 179.25 ZAC 92.79 ETC 166.47 CLP-143.46

PLANETOCENTRIC CONIC

C3 18.923 VHL 4.350 DLA 33.89 RAL 23.97 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 4.254 DPA -4.07 RAP 359.81 ECC 1.3114
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.55 23 16 27 3988.92 -23.65 168.77 253.31 64.99 24 22 56 3388.9 -26.82 161.06
 109.45 4 12 46 3057.67 -23.64 99.36 253.30 64.97 5 3 43 2457.7 -26.81 91.66
 70.55 23 16 27 3988.92 -23.65 168.77 253.31 64.99 24 22 56 3388.9 -26.82 161.06
 109.45 4 12 46 3057.67 -23.64 99.36 253.30 64.97 5 3 43 2457.7 -26.81 91.66
 110.00 4 50 0 2943.96 -26.67 91.97 254.77 67.78 5 39 4 2344.0 -29.44 83.88
 110.00 3 42 19 3150.62 -20.68 105.02 251.72 62.16 4 34 50 2550.6 -24.24 97.68

DIFFERENTIAL CORRECTIONS

TDE 2.4448 TRA 2.8011 TC3-2.7159 BAU .6878
 RDE .2570 RRA -.0544 RC3 .1282 FAU .07618
 FDE 3.9891 FRA 5.0108 FC3-3.4853 BSP 18170
 BOE 2.4583 BRA 2.6178 BC3 2.7189 FSP -3117

MID-COURSE EXECUTION ACCURACY

SGT 5743.3 SGR 366.7 SG3 864.1
 RRT .2234 RRF .2057 RTF .9906
 SGB 5755.0 R23 -.0169 R13 .9906
 SGI 5743.9 SGT 357.4 THA .82

ORBIT DETERMINATION ACCURACY

ST 3450.7 SR 339.6 SS 2121.2
 CRT .9029 CRS -.8761 CST -.9982
 LSA 4060.5 MSA 184.3 SSA 12.3
 EL1 3464.3 EL2 145.4 ALF 5.09

LAUNCH DATE DEC 9 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 550.989

RL 147.33 LAL -0.00 LOL 76.99 VL 27.719 GAL 5.99 AZL 86.59 HCA 247.82 SMA 128.44 ECC .17972 INC 3.4084 V1 30.241
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.464 GAP 5.57 AZP 91.29 TAL 150.47 TAP 38.29 RCA 105.36 APO 151.52 V2 34.790
 RC 116.435 GL 21.64 GP -31 ZAL 45.62 ZAP 145.96 ETS .27 ZAE 129.23 ETE 179.15 ZAC 93.43 ETC 166.50 CLP-145.96

PLANETOCENTRIC CONIC

C3 19.755 VHL 4.445 DLA 33.68 RAL 25.02 RAD 6567.8 VEL 11.880 PTH 2.11 VHP 4.460 DPA -3.77 RAP .41 ECC 1.3251
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.95 23 23 7 3991.54 -23.22 168.76 254.97 64.89 24 29 39 3391.5 -26.41 161.09
 109.05 4 14 29 3075.40 -23.21 100.92 254.97 64.88 5 5 45 2475.4 -26.39 92.85
 70.95 23 23 7 3991.54 -23.22 168.76 254.97 64.89 24 29 39 3391.5 -26.41 161.09
 109.05 4 14 29 3075.40 -23.21 100.92 254.97 64.88 5 5 45 2475.4 -26.39 92.85
 110.00 5 4 40 2921.96 -27.23 90.50 256.88 68.49 5 53 22 2322.0 -29.90 82.33
 110.00 3 36 3 3192.97 -19.32 107.55 252.85 61.23 4 29 16 2593.0 -23.00 100.35

DIFFERENTIAL CORRECTIONS

TDE 2.5238 TRA 2.7834 TC3-2.6785 BAU .7076
 RDE .2709 RRA -.0550 RC3 .1252 FAU .06847
 FDE 3.6780 FRA 4.7896 FC3-3.0004 BSP 18777
 BOE 2.5383 BRA 2.7839 BC3 2.6794 FSP -2868

MID-COURSE EXECUTION ACCURACY

SGT 5902.3 SGR 376.3 SG3 792.8
 RRT .2270 RRF .2113 RTF .9903
 SGB 5914.3 R23 -.0147 R13 .9903
 SGI 5902.9 SGT 366.4 THA .83

ORBIT DETERMINATION ACCURACY

ST 3501.9 SR 350.1 SS 2016.9
 CRT .8994 CRS -.8723 CST -.9983
 LSA 4051.9 MSA 187.6 SSA 12.5
 EL1 3516.0 EL2 152.4 ALF 5.15

LAUNCH DATE DEC 9 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 556.964

RL 147.33 LAL -0.00 LOL 76.99 VL 27.703 GAL 6.25 AZL 86.59 HCA 250.99 SMA 128.33 ECC .18310 INC 3.4062 V1 30.241
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.455 GAP 5.99 AZP 91.11 TAL 149.75 TAP 40.73 RCA 104.83 APO 151.83 V2 34.794
 RC 118.823 GL 21.08 GP -29 ZAL 44.72 ZAP 148.29 ETS .31 ZAE 128.03 ETE 179.06 ZAC 94.22 ETC 166.54 CLP-148.29

PLANETOCENTRIC CONIC

C3 20.685 VHL 4.548 DLA 33.46 RAL 26.10 RAD 6567.8 VEL 11.919 PTH 2.12 VHP 4.675 DPA -3.41 RAP 1.16 ECC 1.3404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.39 23 30 7 3994.24 -22.76 168.73 256.71 64.79 24 36 41 3394.2 -25.96 161.10
 108.61 4 16 6 3094.65 -22.75 101.78 256.71 64.78 5 7 40 2494.6 -25.95 94.15
 71.39 23 30 7 3994.24 -22.76 168.73 256.71 64.79 24 36 41 3394.2 -25.96 161.10
 108.61 4 16 6 3094.65 -22.75 101.78 256.71 64.78 5 7 40 2494.6 -25.95 94.15
 110.00 5 17 57 2905.19 -27.64 89.37 269.01 69.04 6 6 22 2305.2 -30.23 81.14
 110.00 3 31 22 3231.70 -18.03 109.81 254.10 60.46 4 25 14 2631.7 -21.83 102.74

DIFFERENTIAL CORRECTIONS

TDE 2.5978 TRA 2.9723 TC3-2.6211 BAU .7256
 RDE .2856 RRA -.0546 RC3 .1209 FAU .06142
 FDE 3.3970 FRA 4.5521 FC3-2.5708 BSP 19338
 BOE 2.6135 BRA 2.9728 BC3 2.6239 FSP -2643

MID-COURSE EXECUTION ACCURACY

SGT 6044.6 SGR 385.1 SG3 728.2
 RRT .2342 RRF .2206 RTF .9899
 SGB 6056.9 R23 -.0125 R13 .9899
 SGI 6045.3 SGT 374.4 THA .86

ORBIT DETERMINATION ACCURACY

ST 3539.5 SR 360.6 SS 1918.9
 CRT .8961 CRS -.8687 CST -.9983
 LSA 4037.8 MSA 191.2 SSA 12.7
 EL1 3554.3 EL2 159.4 ALF 5.23

LAUNCH DATE DEC 9 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 562.909

RL 147.33 LAL -0.00 LOL 76.99 VL 27.686 GAL 6.53 AZL 86.60 HCA 254.15 SMA 128.21 ECC .18678 INC 3.4041 V1 30.241
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.447 GAP 6.41 AZP 90.93 TAL 149.00 TAP 43.15 RCA 104.27 APO 152.16 V2 34.798
 RC 121.206 GL 20.51 GP -27 ZAL 43.80 ZAP 150.48 ETS .36 ZAE 126.95 ETE 178.99 ZAC 95.16 ETC 166.58 CLP-150.48

PLANETOCENTRIC CONIC

C3 21.725 VHL 4.661 DLA 33.22 RAL 27.21 RAD 6567.9 VEL 11.963 PTH 2.13 VHP 4.901 DPA -2.99 RAP 2.04 ECC 1.3575
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.87 23 37 30 3996.86 -22.26 168.68 258.52 64.69 24 44 7 3396.9 -25.48 161.09
 108.13 4 17 31 3115.62 -22.25 103.15 258.52 64.68 5 9 26 2515.6 -25.47 95.55
 71.87 23 37 30 3996.86 -22.26 168.68 258.52 64.69 24 44 7 3396.9 -25.48 161.09
 108.13 4 17 31 3115.62 -22.25 103.15 258.52 64.68 5 9 26 2515.6 -25.47 95.55
 110.00 5 30 29 2891.69 -27.97 88.45 261.18 69.49 6 18 41 2291.7 -30.49 80.17
 110.00 3 27 38 3268.79 -16.77 111.95 255.46 59.77 4 22 6 2668.8 -20.66 104.99

DIFFERENTIAL CORRECTIONS

TDE 2.6712 TRA 3.1723 TC3-2.5451 BAU .7400
 RDE .3011 RRA -.0531 RC3 .1156 FAU .05475
 FDE 3.1481 FRA 4.3602 FC3-2.1817 BSP 19772
 BOE 2.6881 BRA 3.1727 BC3 2.5477 FSP -2425

MID-COURSE EXECUTION ACCURACY

SGT 6175.5 SGR 393.3 SG3 670.1
 RRT .2453 RRF .2338 RTF .9895
 SGB 6188.0 R23 -.0102 R13 .9895
 SGI 6176.2 SGT 381.2 THA .90

ORBIT DETERMINATION ACCURACY

ST 3569.6 SR 370.9 SS 1829.7
 CRT .8931 CRS -.8653 CST -.9983
 LSA 4023.6 MSA 194.8 SSA 12.8
 EL1 3585.0 EL2 166.1 ALF 5.31

LAUNCH DATE DEC 9 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -0.00 LOL 76.99 VL 27.669 GAL 6.84 AZL 86.60 HCA 257.31 SMA 128.09 ECC .19076 INC 3.4020 V1 30.241
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.438 GAP 6.85 AZP 90.75 TAL 148.23 TAP 45.55 RCA 103.66 APO 152.53 V2 34.803
 RC 123.581 GL 19.92 GP -.25 ZAL 42.86 ZAP 152.54 ETS .41 ZAE 125.99 ETE 178.95 ZAC 96.23 ETC 166.62 CLP-152.54

PLANETOCENTRIC CONIC
 C3 22.888 VHL 4.784 DLA 32.96 RAL 28.33 RAD 6567.9 VEL 12.011 PTH 2.14 VHP 5.137 DPA -2.53 RAP 3.04 ECC 1.3767
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.38 23 45 15 3999.35 -21.74 168.60 260.40 64.59 24 51 55 3399.3 -24.98 161.05
 107.62 4 18 41 3138.41 -21.72 104.63 260.40 64.58 5 11 0 2538.4 -24.96 97.08
 72.38 23 45 15 3999.35 -21.74 168.60 260.40 64.59 24 51 55 3399.3 -24.98 161.05
 107.62 4 18 41 3138.41 -21.72 104.63 260.40 64.58 5 11 0 2538.4 -24.96 97.08
 110.00 5 42 33 2880.60 -28.23 87.70 263.41 69.87 6 30 34 2280.6 -30.70 79.37
 110.00 3 24 30 3305.16 -15.52 114.02 256.90 59.15 4 19 35 2705.2 -19.49 107.16

DIFFERENTIAL CORRECTIONS
 TDE 2.7382 TRA 3.782 TC3-2.4619 BAU .7541
 RDE .3173 RRA -.0506 RC3 .1092 FAU .04891
 FDE 2.9188 FRA 4.1831 FC3-1.8502 BSP 20236
 BDE 2.7565 BRA 3.3785 BC3 2.4643 FSP -2239

MID-COURSE EXECUTION ACCURACY
 SGT 6289.1 SGR 400.7 SG3 617.0
 RRT .2586 RRF .2486 RTF .9891
 SGB 6301.9 R23 -.0082 R13 .9891
 SGI 6290.0 SG2 387.0 THA .95

ORBIT DETERMINATION ACCURACY
 ST 3584.9 SR 380.6 SS 1743.5
 CRT .8901 CRS -.8623 CST -.9983
 LSA 3999.5 MSA 198.5 SSA 12.9
 EL1 3600.9 EL2 172.7 ALF 5.41

LAUNCH DATE DEC 9 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -0.00 LOL 76.99 VL 27.651 GAL 7.16 AZL 86.60 HCA 260.48 SMA 127.97 ECC .19509 INC 3.4000 V1 30.241
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.430 GAP 7.30 AZP 90.56 TAL 147.44 TAP 47.92 RCA 103.01 APO 152.94 V2 34.808
 RC 125.948 GL 19.32 GP -.24 ZAL 41.90 ZAP 154.49 ETS .47 ZAE 125.12 ETE 178.91 ZAC 97.40 ETC 166.65 CLP-154.49

PLANETOCENTRIC CONIC
 C3 24.188 VHL 4.918 DLA 32.69 RAL 29.46 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 5.385 DPA -2.01 RAP 4.15 ECC 1.3981
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.94 23 53 22 4001.74 -21.18 168.50 262.34 64.50 25 0 4 3401.7 -24.43 160.99
 107.06 4 19 37 3163.02 -21.18 106.24 262.34 64.49 5 12 20 2563.0 -24.42 98.73
 72.94 23 53 22 4001.74 -21.18 168.50 262.34 64.50 25 0 4 3401.7 -24.43 160.99
 107.06 4 19 37 3163.02 -21.18 106.24 262.34 64.49 5 12 20 2563.0 -24.42 98.73
 110.00 5 54 17 2871.45 -28.44 87.07 265.68 70.18 6 42 8 2271.4 -30.87 78.71
 110.00 3 21 49 3341.30 -14.24 116.05 258.40 58.59 4 17 30 2741.3 -18.30 109.28

DIFFERENTIAL CORRECTIONS
 TDE 2.8027 TRA 3.5947 TC3-2.3671 BAU .7662
 RDE .3342 RRA -.0470 RC3 .1021 FAU .04358
 FDE 2.7119 FRA 4.0242 FC3-1.5596 BSP 20660
 BDE 2.8225 BRA 3.5950 BC3 2.3693 FSP -2070

MID-COURSE EXECUTION ACCURACY
 SGT 6390.7 SGR 407.3 SG3 569.0
 RRT .2743 RRF .2661 RTF .9886
 SGB 6403.7 R23 -.0063 R13 .9886
 SGI 6391.7 SG2 391.6 THA 1.01

ORBIT DETERMINATION ACCURACY
 ST 3590.8 SR 389.8 SS 1663.0
 CRT .8872 CRS -.8593 CST -.9983
 LSA 3971.2 MSA 202.2 SSA 12.9
 EL1 3607.5 EL2 179.1 ALF 5.51

LAUNCH DATE DEC 9 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -0.00 LOL 76.99 VL 27.632 GAL 7.51 AZL 86.60 HCA 263.64 SMA 127.85 ECC .19978 INC 3.3980 V1 30.241
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.422 GAP 7.76 AZP 90.38 TAL 146.64 TAP 50.29 RCA 102.31 APO 153.39 V2 34.815
 RC 128.306 GL 18.70 GP -.23 ZAL 40.93 ZAP 156.34 ETS .53 ZAE 124.33 ETE 178.89 ZAC 98.68 ETC 166.69 CLP-156.34

PLANETOCENTRIC CONIC
 C3 25.643 VHL 5.064 DLA 32.40 RAL 30.60 RAD 6568.0 VEL 12.125 PTH 2.17 VHP 5.645 DPA -1.45 RAP 5.34 ECC 1.4220
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.55 0 5 50 4003.80 -20.59 168.36 264.34 64.41 1 12 34 3403.8 -23.86 160.88
 106.45 4 20 13 3189.71 -20.57 107.98 264.34 64.39 5 13 22 2589.7 -23.84 100.51
 73.55 0 5 50 4003.80 -20.59 168.36 264.34 64.41 1 12 34 3403.8 -23.86 160.88
 106.45 4 20 13 3189.71 -20.57 107.98 264.34 64.39 5 13 22 2589.7 -23.84 100.51
 110.00 6 5 45 2863.98 -28.61 86.56 268.01 70.45 6 53 29 2264.0 -31.00 78.17
 110.00 3 19 28 3377.53 -12.95 118.06 259.97 58.08 4 15 46 2777.5 -17.07 111.38

DIFFERENTIAL CORRECTIONS
 TDE 2.8660 TRA 3.8229 TC3-2.2623 BAU .7762
 RDE .3517 RRA -.0421 RC3 .0945 FAU .03868
 FDE 2.5263 FRA 3.8819 FC3-1.3060 BSP 21038
 BDE 2.8875 BRA 3.8232 BC3 2.2642 FSP -1914

MID-COURSE EXECUTION ACCURACY
 SGT 6481.7 SGR 413.2 SG3 525.4
 RRT .2921 RRF .2855 RTF .9882
 SGB 6494.8 R23 -.0044 R13 .9882
 SGI 6482.8 SG2 395.1 THA 1.07

ORBIT DETERMINATION ACCURACY
 ST 3589.2 SR 398.3 SS 1588.4
 CRT .8843 CRS -.8564 CST -.9983
 LSA 3939.7 MSA 205.8 SSA 12.9
 EL1 3606.5 EL2 185.1 ALF 5.62

LAUNCH DATE DEC 9 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC
 RL 147.33 LAL -0.00 LOL 76.99 VL 27.614 GAL 7.89 AZL 86.60 HCA 266.81 SMA 127.72 ECC .20486 INC 3.3961 V1 30.241
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.415 GAP 8.24 AZP 90.19 TAL 145.82 TAP 52.64 RCA 101.55 APO 153.88 V2 34.821
 RC 130.653 GL 18.07 GP -.21 ZAL 39.95 ZAP 158.10 ETS .59 ZAE 123.62 ETE 178.88 ZAC 100.04 ETC 166.71 CLP-158.10

PLANETOCENTRIC CONIC
 C3 27.273 VHL 5.222 DLA 32.10 RAL 31.75 RAD 6568.1 VEL 12.192 PTH 2.19 VHP 5.918 DPA -.86 RAP 6.62 ECC 1.4488
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.20 0 14 45 4005.57 -19.96 168.17 266.40 64.32 1 21 30 3405.6 -23.25 160.74
 105.80 4 20 27 3218.50 -19.95 109.86 266.39 64.31 5 14 5 2618.5 -23.24 102.43
 74.20 0 14 45 4005.57 -19.96 168.17 266.40 64.32 1 21 30 3405.6 -23.25 160.74
 105.80 4 20 27 3218.50 -19.95 109.86 266.39 64.31 5 14 5 2618.5 -23.24 102.43
 110.00 6 16 59 2858.03 -28.75 86.15 270.39 70.65 7 4 37 2258.0 -31.11 77.74
 110.00 3 17 22 3414.04 -11.63 120.06 261.60 57.63 4 14 16 2814.0 -15.82 113.46

DIFFERENTIAL CORRECTIONS
 TDE 2.9316 TRA 4.0680 TC3-2.1431 BAU .7820
 RDE .3700 RRA -.0359 RC3 .0867 FAU .03399
 FDE 2.3622 FRA 3.7583 FC3-1.0789 BSP 21296
 BDE 2.9549 BRA 4.0681 BC3 2.1448 FSP -1763

MID-COURSE EXECUTION ACCURACY
 SGT 6566.2 SGR 418.5 SG3 486.3
 RRT .3122 RRF .3072 RTF .9877
 SGB 6579.5 R23 -.0024 R13 .9877
 SGI 6567.5 SG2 397.5 THA 1.14

ORBIT DETERMINATION ACCURACY
 ST 3584.4 SR 406.1 SS 1521.1
 CRT .8815 CRS -.8537 CST -.9984
 LSA 3909.3 MSA 209.3 SSA 12.9
 EL1 3602.3 EL2 190.8 ALF 5.72

LAUNCH DATE DEC 9 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 11 1969

MELIOCENTRIC CONIC
 RL 147.33 LAL -.00 LOL 76.99 VL 27.594 GAL 8.29 AZL 86.61 MCA 269.98 SMA 127.59 ECC .21037 INC 3.3941 V1 30.241
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.407 GAP 8.74 AZP 90.00 TAL 145.00 TAP 54.98 RCA 100.75 APO 154.43 V2 34.829
 RC 132.989 GL 17.44 GP -.20 ZAL 38.96 ZAP 159.78 ETS .65 ZAE 122.98 ETE 178.88 ZAC 101.48 ETC 166.73 CLP-159.78

PLANETOCENTRIC CONIC
 C3 29.102 VHL 5.395 DLA 31.79 RAL 32.90 RAD 6568.2 VEL 12.267 PTH 2.21 VHP 6.205 DPA -.23 RAP 7.97 ECC 1.4790
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.91 0 24 7 4006.74 -19.30 167.92 268.51 64.24 1 30 54 3406.7 -22.61 160.54
 105.09 4 20 13 3249.72 -19.29 111.89 268.50 64.23 5 14 23 2649.7 -22.59 104.51
 74.91 0 24 7 4006.74 -19.30 167.92 268.51 64.24 1 30 54 3406.7 -22.61 160.54
 105.09 4 20 13 3249.72 -19.29 111.89 268.50 64.23 5 14 23 2649.7 -22.59 104.51
 110.00 6 28 2 2853.47 -28.85 85.83 272.83 70.82 7 15 36 2253.5 -31.19 77.41
 110.00 3 15 28 3450.98 -10.27 122.06 263.28 57.22 4 12 59 2851.0 -14.52 115.54

MID-COURSE EXECUTION ACCURACY
 SGT 6636.3 SGR 422.9 SG3 450.2
 RRT .3331 RRF .3293 RTF .9873
 SGB 6649.8 R23 -.0008 R13 .9873
 SGI 6637.8 SG2 398.6 THA 1.22

ORBIT DETERMINATION ACCURACY
 ST 3567.9 SR 412.9 SS 1455.7
 CRT .8786 CRS -.8509 CST -.9984
 LSA 3869.6 MSA 212.6 SSA 12.8
 EL1 3586.3 EL2 196.2 ALF 5.82

DIFFERENTIAL CORRECTIONS
 TDE 2.9923 TRA 4.3226 TC3-2.0238 BAU .7880
 RDE .3886 RRA -.0284 RC3 .0787 FAU .02992
 FDE 2.2094 FRA 3.6433 FC3 -.8899 BSP 21623
 BOE 3.0174 BRA 4.3226 BC3 2.0253 FSP -1635

LAUNCH DATE DEC 9 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 13 1969

MELIOCENTRIC CONIC
 RL 147.33 LAL -.00 LOL 76.99 VL 27.574 GAL 8.73 AZL 86.61 MCA 273.15 SMA 127.45 ECC .21634 INC 3.3922 V1 30.241
 RP 108.78 LAP -3.39 LOP 350.14 VP 37.400 GAP 9.26 AZP 89.81 TAL 144.17 TAP 57.32 RCA 99.88 APO 155.03 V2 34.837
 RC 135.313 GL 16.79 GP -.19 ZAL 37.98 ZAP 161.39 ETS .71 ZAE 122.38 ETE 178.89 ZAC 102.98 ETC 166.73 CLP-161.39

PLANETOCENTRIC CONIC
 C3 31.159 VHL 5.582 DLA 31.46 RAL 34.04 RAD 6568.2 VEL 12.350 PTH 2.23 VHP 6.508 DPA .42 RAP 9.38 ECC 1.5128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.68 0 33 57 4007.32 -18.61 167.81 270.67 64.16 1 40 44 3407.3 -21.93 160.27
 104.32 4 19 29 3283.38 -18.60 114.09 270.66 64.16 5 14 13 2683.4 -21.92 106.75
 75.68 0 33 57 4007.32 -18.61 167.81 270.67 64.16 1 40 44 3407.3 -21.93 160.27
 104.32 4 19 29 3283.38 -18.60 114.09 270.66 64.16 5 14 13 2683.4 -21.92 106.75
 110.00 6 38 54 2850.23 -28.92 85.61 275.31 70.93 7 26 24 2250.2 -31.25 77.17
 110.00 3 13 43 3488.46 -8.88 124.08 265.01 56.86 4 11 51 2888.5 -13.19 117.62

MID-COURSE EXECUTION ACCURACY
 SGT 6698.5 SGR 426.6 SG3 417.5
 RRT .3554 RRF .3527 RTF .9877
 SGB 6712.1 R23 .0007 R13 .9870
 SGI 6700.2 SG2 398.7 THA 1.30

ORBIT DETERMINATION ACCURACY
 ST 3546.5 SR 418.7 SS 1395.6
 CRT .8757 CRS -.8482 CST -.9985
 LSA 3828.1 MSA 215.7 SSA 12.7
 EL1 3565.5 EL2 201.1 ALF 5.92

DIFFERENTIAL CORRECTIONS
 TDE 3.0536 TRA 4.5935 TC3-1.8893 BAU .7913
 RDE .4078 RRA -.0194 RC3 .0707 FAU .02614
 FDE 2.0725 FRA 3.5418 FC3 -.7263 BSP 21916
 BOE 3.0807 BRA 4.5936 BC3 1.8897 FSP -1518

LAUNCH DATE DEC 9 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 15 1969

MELIOCENTRIC CONIC
 RL 147.33 LAL -.00 LOL 76.99 VL 27.554 GAL 9.20 AZL 86.61 MCA 276.32 SMA 127.32 ECC .22283 INC 3.3902 V1 30.241
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.394 GAP 9.81 AZP 89.63 TAL 143.33 TAP 59.65 RCA 98.95 APO 155.69 V2 34.846
 RC 137.625 GL 16.14 GP -.19 ZAL 37.00 ZAP 162.95 ETS .77 ZAE 121.84 ETE 178.91 ZAC 104.54 ETC 166.72 CLP-162.95

PLANETOCENTRIC CONIC
 C3 33.476 VHL 5.786 DLA 31.12 RAL 35.17 RAD 6568.3 VEL 12.444 PTH 2.25 VHP 6.828 DPA 1.09 RAP 10.85 ECC 1.5509
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.52 0 44 22 4006.80 -17.89 167.21 272.87 64.10 1 51 9 3406.8 -21.23 159.90
 103.48 4 18 6 3320.01 -17.87 116.49 272.86 64.09 5 13 26 2720.0 -21.21 109.19
 76.52 0 44 22 4006.80 -17.89 167.21 272.87 64.10 1 51 9 3406.8 -21.23 159.90
 103.48 4 18 6 3320.01 -17.87 116.49 272.86 64.09 5 13 26 2720.0 -21.21 109.19
 110.00 6 49 34 2848.26 -28.97 85.47 277.84 71.00 7 37 3 2248.3 -31.28 77.03
 110.00 3 12 4 3526.55 -7.46 126.11 266.79 56.54 4 10 50 2926.6 -11.81 119.71

MID-COURSE EXECUTION ACCURACY
 SGT 6752.0 SGR 429.7 SG3 387.6
 RRT .3788 RRF .3769 RTF .9866
 SGB 6765.7 R23 .0020 R13 .9866
 SGI 6754.0 SG2 397.5 THA 1.39

ORBIT DETERMINATION ACCURACY
 ST 3520.2 SR 423.3 SS 1340.0
 CRT .8728 CRS -.8457 CST -.9985
 LSA 3784.0 MSA 218.5 SSA 12.6
 EL1 3539.6 EL2 205.5 ALF 6.01

DIFFERENTIAL CORRECTIONS
 TDE 3.1155 TRA 4.8813 TC3-1.7686 BAU .7920
 RDE .4275 RRA -.0089 RC3 .0629 FAU .02265
 FDE 1.9486 FRA 3.4517 FC3 -.5858 BSP 22174
 BOE 3.1447 BRA 4.8813 BC3 1.7697 FSP -1410

LAUNCH DATE DEC 9 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 17 1969

MELIOCENTRIC CONIC
 RL 147.33 LAL -.00 LOL 76.99 VL 27.534 GAL 9.71 AZL 86.61 MCA 279.50 SMA 127.18 ECC .22987 INC 3.3882 V1 30.241
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.387 GAP 10.38 AZP 89.44 TAL 142.50 TAP 61.99 RCA 97.95 APO 156.42 V2 34.855
 RC 139.923 GL 15.48 GP -.18 ZAL 36.02 ZAP 164.45 ETS .83 ZAE 121.33 ETE 178.93 ZAC 106.15 ETC 166.70 CLP-164.45

PLANETOCENTRIC CONIC
 C3 36.093 VHL 6.008 DLA 30.77 RAL 36.29 RAD 6568.4 VEL 12.548 PTH 2.27 VHP 7.168 DPA 1.79 RAP 12.37 ECC 1.5940
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.44 0 55 25 4004.95 -17.14 166.68 275.11 64.05 2 2 10 3405.0 -20.49 159.42
 102.56 4 15 57 3359.86 -17.12 119.10 275.10 64.04 5 11 57 2759.9 -20.47 111.84
 77.44 0 55 25 4004.95 -17.14 166.68 275.11 64.05 2 2 10 3405.0 -20.49 159.42
 102.56 4 15 57 3359.86 -17.12 119.10 275.10 64.04 5 11 57 2759.9 -20.47 111.84
 110.00 7 0 4 2847.50 -28.98 85.42 280.42 71.03 7 47 31 2247.5 -31.29 76.98
 110.00 3 10 29 3565.31 -6.00 128.16 268.61 56.28 4 9 54 2965.3 -10.39 121.82

MID-COURSE EXECUTION ACCURACY
 SGT 6798.7 SGR 432.0 SG3 360.4
 RRT .4032 RRF .4019 RTF .9864
 SGB 6812.4 R23 .0032 R13 .9864
 SGI 6800.9 SG2 395.2 THA 1.47

ORBIT DETERMINATION ACCURACY
 ST 3490.3 SR 426.9 SS 1288.9
 CRT .8699 CRS -.8432 CST -.9986
 LSA 3738.6 MSA 220.8 SSA 12.5
 EL1 3510.1 EL2 209.4 ALF 6.09

DIFFERENTIAL CORRECTIONS
 TDE 3.1793 TRA 5.1889 TC3-1.6352 BAU .7895
 RDE .4476 RRA .0033 RC3 .0555 FAU .01940
 FDE 1.8372 FRA 3.3729 FC3 -.4653 BSP 22396
 BOE 3.2107 BRA 5.1889 BC3 1.6361 FSP -1310

LAUNCH DATE DEC 10 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 18 1969

HELIOCENTRIC CONIC

DISTANCE 133.019

RL 147.31 LAL -.00 LOL 78.00 VL 16.880 GAL 24.54 AZL 86.49 MCA 40.15 SMA 87.49 ECC .74788 INC 3.5056 V1 30.244
 RP 107.50 LAP 2.26 LOP 118.10 VP 30.859 GAP -47.01 AZP 87.32 TAL 170.81 TAP 210.96 RCA 22.06 APO 152.92 V2 35.253
 RC 78.802 GL 3.24 GP .12 ZAL 64.23 ZAP 32.25 ETS 179.25 ZAE 136.02 ETE 187.73 ZAC 65.79 ETC 163.49 CLP 32.25

PLANETOCENTRIC CONIC

C3 275.455 VHL 16.597 DLA 8.44 RAL 11.45 RAD 6571.6 VEL 19.919 PTH 3.13 VHP 26.627 DPA -14.28 RAP 333.60 ECC 5.5333
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 55 3042.97 -27.72 99.55 278.26 83.97 6 38 38 2443.0 -28.27 90.92
 90.00 19 53 29 5157.45 25.52 230.28 269.81 77.29 21 19 26 4557.5 23.52 222.19
 100.00 7 13 21 2767.42 -29.35 79.48 278.46 84.07 7 59 29 2167.4 -29.86 70.71
 100.00 21 10 44 4908.24 27.12 211.55 269.40 76.92 22 32 32 4308.2 25.05 203.36
 110.00 8 30 56 2524.65 -33.76 61.57 278.99 84.31 9 13 0 1924.7 -34.18 52.35
 110.00 22 9 39 4723.77 31.43 196.35 268.20 75.81 23 28 23 4123.8 29.16 187.88

DIFFERENTIAL CORRECTIONS

TDE -.8120 TRA-1.9822 TC3 -.1141 BAU .4229
 RDE-1.1713 RRA .5651 RC3 -.0128 FAU .01186
 FDE .3711 FRA .7102 FC3 -.0373 BSP 1895
 BOE 1.4252 BRA 2.0612 BC3 .1148 FSP -53

MID-COURSE EXECUTION ACCURACY

SGT 837.1 SGR 451.9 SG3 26.4
 RRT -.0187 RRF .0168 RTF -.6283
 SGB 951.2 R23 -.0003 R13 .6283
 SG1 837.1 SG2 451.8 TMA 179.19

ORBIT DETERMINATION ACCURACY

ST 349.0 SR 408.7 SS 340.9
 CRT .7088 CRS .7828 CST .9921
 LSA 595.6 MSA 223.9 SSA 13.9
 EL1 498.0 EL2 202.0 ALF 51.30

LAUNCH DATE DEC 10 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 138.711

RL 147.31 LAL -.00 LOL 78.00 VL 17.627 GAL 23.44 AZL 86.51 MCA 43.40 SMA 89.00 ECC .72077 INC 3.4934 V1 30.244
 RP 107.49 LAP 2.40 LOP 121.35 VP 31.277 GAP -44.88 AZP 87.46 TAL 169.94 TAP 213.34 RCA 24.85 APO 153.15 V2 35.255
 RC 76.644 GL 3.56 GP .12 ZAL 62.95 ZAP 30.72 ETS 179.36 ZAE 136.16 ETE 188.20 ZAC 67.45 ETC 163.78 CLP 30.72

PLANETOCENTRIC CONIC

C3 251.912 VHL 15.872 DLA 9.23 RAL 12.52 RAD 6571.5 VEL 19.319 PTH 3.10 VHP 25.625 DPA -13.69 RAP 335.26 ECC 5.1458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 45 55 3056.99 -27.61 100.96 278.83 83.47 6 36 52 2457.0 -28.23 91.95
 90.00 20 4 4 5120.12 24.94 227.70 269.72 76.13 21 29 24 4520.1 22.78 219.70
 100.00 7 11 47 2780.07 -29.26 80.40 279.05 83.59 7 58 7 2180.1 -29.84 71.65
 100.00 21 20 53 4872.27 26.54 209.03 269.28 75.72 22 42 6 4272.3 24.32 200.94
 110.00 8 30 19 2534.32 -33.70 62.32 279.62 83.88 9 12 33 1934.3 -34.18 53.10
 110.00 22 18 51 4690.79 30.85 193.96 267.97 74.50 23 37 2 4090.8 28.42 185.60

DIFFERENTIAL CORRECTIONS

TDE -.9325 TRA-2.1146 TC3 -.1403 BAU .4749
 RDE-1.1318 RRA .5444 RC3 -.0141 FAU .01134
 FDE .3993 FRA .7495 FC3 -.0390 BSP 807
 BOE 1.4665 BRA 2.1836 BC3 .1410 FSP -30

MID-COURSE EXECUTION ACCURACY

SGT 953.8 SGR 456.7 SG3 28.8
 RRT .0079 RRF .0080 RTF -.6459
 SGB 1057.5 R23 .0146 R13 -.6458
 SG1 953.9 SG2 456.7 TMA .28

ORBIT DETERMINATION ACCURACY

ST 409.1 SR 412.9 SS 367.5
 CRT .7323 CRS .7875 CST .9949
 LSA 648.1 MSA 229.4 SSA 14.9
 EL1 540.9 EL2 212.6 ALF 45.37

LAUNCH DATE DEC 10 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 144.487

RL 147.31 LAL -.00 LOL 78.00 VL 18.327 GAL 22.39 AZL 86.52 MCA 46.65 SMA 90.53 ECC .69380 INC 3.4826 V1 30.244
 RP 107.48 LAP 2.53 LOP 124.60 VP 31.679 GAP -42.85 AZP 87.61 TAL 169.09 TAP 215.74 RCA 27.72 APO 153.34 V2 35.257
 RC 74.503 GL 3.89 GP .12 ZAL 61.74 ZAP 29.21 ETS 179.48 ZAE 136.39 ETE 188.69 ZAC 69.12 ETC 164.06 CLP 29.21

PLANETOCENTRIC CONIC

C3 230.361 VHL 15.178 DLA 10.01 RAL 13.53 RAD 6571.3 VEL 18.753 PTH 3.06 VHP 24.653 DPA -13.07 RAP 336.93 ECC 4.7912
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 43 3070.01 -27.51 101.50 279.27 83.01 6 34 53 2470.0 -28.19 92.90
 90.00 20 14 20 5082.38 24.29 225.13 269.56 74.99 21 39 3 4482.4 22.00 217.21
 100.00 7 10 1 2791.70 -29.17 81.26 279.50 83.15 7 56 32 2191.7 -29.81 72.51
 100.00 21 30 44 4835.92 25.90 206.52 269.08 74.54 22 51 20 4235.9 23.53 198.53
 110.00 8 29 30 2542.96 -33.63 62.98 280.12 83.49 9 11 53 1943.0 -34.17 53.78
 110.00 22 27 44 4657.43 30.22 191.56 267.66 73.21 23 45 21 4057.4 27.63 183.33

DIFFERENTIAL CORRECTIONS

TDE -.7979 TRA-1.9906 TC3 -.1259 BAU .3908
 RDE-1.0957 RRA .5194 RC3 -.0162 FAU .01216
 FDE .3989 FRA .7605 FC3 -.0457 BSP 2617
 BOE 1.3554 BRA 2.0572 BC3 .1269 FSP -69

MID-COURSE EXECUTION ACCURACY

SGT 905.0 SGR 461.7 SG3 30.8
 RRT -.0204 RRF .0157 RTF -.6664
 SGB 1015.9 R23 .0027 R13 .6664
 SG1 905.0 SG2 461.5 TMA 179.19

ORBIT DETERMINATION ACCURACY

ST 378.5 SR 417.9 SS 371.0
 CRT .7013 CRS .7838 CST .9909
 LSA 632.2 MSA 236.0 SSA 14.3
 EL1 520.6 EL2 216.6 ALF 49.03

LAUNCH DATE DEC 10 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 150.380

RL 147.31 LAL -.00 LOL 78.00 VL 18.983 GAL 21.40 AZL 86.53 MCA 49.89 SMA 92.07 ECC .66726 INC 3.4729 V1 30.244
 RP 107.48 LAP 2.66 LOP 127.85 VP 32.064 GAP -40.93 AZP 87.76 TAL 168.25 TAP 218.14 RCA 30.63 APO 153.50 V2 35.258
 RC 72.381 GL 4.23 GP .13 ZAL 60.58 ZAP 27.73 ETS 179.60 ZAE 136.72 ETE 189.21 ZAC 70.82 ETC 164.33 CLP 27.73

PLANETOCENTRIC CONIC

C3 210.825 VHL 14.520 DLA 10.78 RAL 14.50 RAD 6571.2 VEL 18.225 PTH 3.02 VHP 23.717 DPA -12.44 RAP 338.61 ECC 4.4697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 41 20 3082.38 -27.40 102.39 279.62 82.58 6 32 42 2482.4 -28.15 93.80
 90.00 20 24 28 5044.12 23.60 222.54 269.36 73.87 21 48 32 4444.1 21.16 214.72
 100.00 7 8 4 2802.66 -29.08 82.06 279.86 82.73 7 54 46 2202.7 -29.78 73.32
 100.00 21 40 25 4799.07 25.21 204.00 268.83 73.38 23 0 24 4199.1 22.69 196.11
 110.00 8 28 31 2550.89 -33.57 63.59 280.51 83.13 9 11 2 1950.9 -34.15 54.40
 110.00 22 36 27 4623.61 29.53 189.17 267.32 71.95 23 53 31 4023.6 26.78 181.06

DIFFERENTIAL CORRECTIONS

TDE -.8045 TRA-2.0076 TC3 -.1339 BAU .3810
 RDE-1.0577 RRA .4964 RC3 -.0181 FAU .01227
 FDE .4149 FRA .7878 FC3 -.0504 BSP 2669
 BOE 1.3289 BRA 2.0681 BC3 .1352 FSP -74

MID-COURSE EXECUTION ACCURACY

SGT 950.0 SGR 465.5 SG3 33.3
 RRT -.0177 RRF .0138 RTF -.6841
 SGB 1057.9 R23 .0021 R13 .6841
 SG1 950.0 SG2 465.5 TMA 179.35

ORBIT DETERMINATION ACCURACY

ST 399.3 SR 421.6 SS 387.9
 CRT .7011 CRS .7848 CST .9907
 LSA 655.1 MSA 241.5 SSA 14.5
 EL1 535.7 EL2 224.1 ALF 47.22

LAUNCH DATE DEC 10 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 26 1969

MELIOCENTRIC CONIC
 RL 147.31 LAL -.00 LOL 78.00 VL 19.598 GAL 20.46 AZL 86.54 MCA 53.14 SMA 93.61 ECC .64118 INC 3.4642 V1 30.244
 RP 107.48 LAP 2.77 LOP 131.10 VP 32.433 GAP -39.11 AZP 87.92 TAL 167.42 TAP 220.56 RCA 33.59 APO 153.63 V2 35.259
 RC 70.281 GL 4.58 GP .13 ZAL 59.47 ZAP 26.26 ETS 179.73 ZAE 137.13 ETE 189.76 ZAC 72.54 ETC 164.58 CLP 26.26

PLANETOCENTRIC CONIC
 C3 193.024 VHL 13.893 DLA 11.54 RAL 15.42 RAD 6571.1 VEL 17.730 PTH 2.99 VHP 22.812 DPA -11.79 RAP 340.31 ECC 4.1767
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 44 3094.03 -27.30 103.22 279.85 82.17 6 30 18 2494.0 -28.10 94.65
 90.00 20 34 24 5005.32 22.84 219.95 269.09 72.79 21 57 49 4405.3 20.27 212.22
 100.00 7 5 55 2812.87 -28.99 82.80 280.11 82.35 7 52 47 2212.9 -29.74 74.08
 100.00 21 49 54 4761.71 24.46 201.48 268.53 72.26 23 9 16 4161.7 21.80 193.69
 110.00 8 27 21 2558.02 -33.51 64.14 280.80 82.81 9 9 59 1958.0 -34.14 54.96
 110.00 22 44 57 4589.33 28.79 186.78 266.91 70.72 24 1 26 3989.3 25.89 178.80

MID-COURSE EXECUTION ACCURACY
 SGT 994.4 SGR 468.7 SCS 36.0
 RRT -.0154 RRF .0119 RTF -.7011
 SGB 1099.3 R23 .0020 R13 .7011
 SGI 994.4 SCS 468.7 THA 179.46

ORBIT DETERMINATION ACCURACY
 ST 419.8 SR 424.8 SS 404.9
 CRT .7003 CRS .7859 CST .9905
 LSA 677.9 MSA 246.6 SSA 14.7
 EL1 550.7 EL2 231.2 ALF 45.48

DIFFERENTIAL CORRECTIONS
 TDE -.8079 TRA-2.0205 TC3 -.1415 BAU .3688
 RDE -1.0198 RRA .4733 RC3 -.0203 FAU .01241
 FDE .4310 FRA .8152 FC3 -.0557 BSP 2810
 BDE 1.3010 BRA 2.0752 BC3 .1429 FSP -.81

LAUNCH DATE DEC 10 1968

FLIGHT TIME 80.00

ARRIVAL DATE FEB 28 1969

MELIOCENTRIC CONIC
 RL 147.31 LAL -.00 LOL 78.00 VL 20.175 GAL 19.57 AZL 86.54 MCA 56.39 SMA 95.15 ECC .61565 INC 3.4561 V1 30.244
 RP 107.48 LAP 2.88 LOP 134.35 VP 32.784 GAP -37.37 AZP 88.09 TAL 166.61 TAP 223.00 RCA 36.57 APO 153.73 V2 35.259
 RC 68.209 GL 4.94 GP .13 ZAL 58.42 ZAP 24.81 ETS 179.87 ZAE 137.65 ETE 190.34 ZAC 74.28 ETC 164.82 CLP 24.81

PLANETOCENTRIC CONIC
 C3 176.791 VHL 13.296 DLA 12.29 RAL 16.29 RAD 6570.9 VEL 17.266 PTH 2.95 VHP 21.937 DPA -11.12 RAP 342.01 ECC 3.9095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 55 3104.98 -27.20 104.01 279.98 81.79 6 27 40 2505.0 -28.05 95.45
 90.00 20 44 9 4965.94 22.02 217.35 268.77 71.73 22 6 55 4365.9 19.32 209.72
 100.00 7 3 33 2822.35 -28.90 83.50 280.25 82.00 7 50 35 2222.4 -29.70 74.78
 100.00 21 59 12 4723.80 23.65 198.96 268.18 71.17 23 17 56 4123.8 20.86 191.27
 110.00 8 26 0 2564.38 -33.45 64.63 280.97 82.53 9 8 44 1964.4 -34.12 55.45
 110.00 22 53 15 4554.55 27.98 184.40 266.46 69.51 24 9 9 3954.5 24.94 176.55

MID-COURSE EXECUTION ACCURACY
 SGT 1040.7 SGR 471.2 SCS 38.9
 RRT -.0127 RRF .0096 RTF -.7175
 SGB 1142.4 R23 .0019 R13 .7175
 SGI 1040.7 SCS 471.2 THA 179.58

ORBIT DETERMINATION ACCURACY
 ST 441.3 SR 427.3 SS 422.4
 CRT .6999 CRS .7871 CST .9902
 LSA 701.7 MSA 251.3 SSA 14.9
 EL1 566.4 EL2 237.8 ALF 43.68

DIFFERENTIAL CORRECTIONS
 TDE -.8116 TRA-2.0327 TC3 -.1490 BAU .3562
 RDE -.9820 RRA .4501 RC3 -.0225 FAU .01258
 FDE .4476 FRA .8432 FC3 -.0616 BSP 2953
 BDE 1.2739 BRA 2.0820 BC3 .1507 FSP -.89

LAUNCH DATE DEC 10 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 2 1969

MELIOCENTRIC CONIC
 RL 147.31 LAL -.00 LOL 78.00 VL 20.715 GAL 18.72 AZL 86.55 MCA 59.64 SMA 96.68 ECC .59075 INC 3.4485 V1 30.244
 RP 107.48 LAP 2.98 LOP 137.60 VP 33.118 GAP -35.71 AZP 88.26 TAL 165.82 TAP 225.45 RCA 39.57 APO 153.79 V2 35.257
 RC 66.167 GL 5.32 GP .14 ZAL 57.42 ZAP 23.37 ETS 180.00 ZAE 138.26 ETE 190.97 ZAC 76.03 ETC 165.05 CLP 23.37

PLANETOCENTRIC CONIC
 C3 161.977 VHL 12.727 DLA 13.02 RAL 17.11 RAD 6570.8 VEL 16.832 PTH 2.91 VHP 21.090 DPA -10.44 RAP 343.72 ECC 3.6657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 32 52 3115.29 -27.09 104.75 279.99 81.43 6 24 47 2515.3 -28.00 96.20
 90.00 20 53 44 4925.94 21.14 214.75 268.40 70.71 22 15 50 4325.9 18.32 207.21
 100.00 7 0 58 2831.15 -28.81 84.14 280.28 81.67 7 48 9 2231.1 -29.66 75.43
 100.00 22 8 19 4685.32 22.78 196.43 267.78 70.11 23 26 24 4085.3 19.86 188.85
 110.00 8 24 26 2569.98 -33.40 65.06 281.04 82.28 9 7 16 1970.0 -34.11 55.89
 110.00 23 1 20 4519.25 27.12 182.01 265.96 68.34 24 16 39 3919.2 23.93 174.30

MID-COURSE EXECUTION ACCURACY
 SGT 1087.2 SGR 473.0 SCS 42.0
 RRT -.0101 RRF .0070 RTF -.7334
 SGB 1185.6 R23 .0021 R13 .7334
 SGI 1087.2 SCS 473.0 THA 179.69

ORBIT DETERMINATION ACCURACY
 ST 463.0 SR 429.2 SS 440.3
 CRT .6992 CRS .7884 CST .9899
 LSA 725.9 MSA 255.5 SSA 15.0
 EL1 582.3 EL2 244.0 ALF 41.90

DIFFERENTIAL CORRECTIONS
 TDE -.8136 TRA-2.0419 TC3 -.1559 BAU .3420
 RDE -.9443 RRA .4270 RC3 -.0250 FAU .01279
 FDE .4647 FRA .8716 FC3 -.0683 BSP 3150
 BDE 1.2464 BRA 2.0861 BC3 .1579 FSP -.97

LAUNCH DATE DEC 10 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 4 1969

MELIOCENTRIC CONIC
 RL 147.31 LAL -.00 LOL 78.00 VL 21.222 GAL 17.90 AZL 86.56 MCA 62.89 SMA 98.20 ECC .56651 INC 3.4415 V1 30.244
 RP 107.49 LAP 3.06 LOP 140.85 VP 33.436 GAP -34.13 AZP 88.43 TAL 165.04 TAP 227.93 RCA 42.57 APO 153.83 V2 35.256
 RC 64.161 GL 5.71 GP .15 ZAL 56.48 ZAP 21.96 ETS 180.15 ZAE 138.99 ETE 191.64 ZAC 77.80 ETC 165.26 CLP 21.95

PLANETOCENTRIC CONIC
 C3 148.452 VHL 12.184 DLA 13.75 RAL 17.88 RAD 6570.6 VEL 16.425 PTH 2.87 VHP 20.270 DPA -9.74 RAP 345.44 ECC 3.4431
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 34 3125.01 -26.99 105.44 279.90 81.10 6 21 39 2525.0 -27.95 96.90
 90.00 21 3 9 4885.29 20.21 212.13 267.98 69.73 22 24 35 4285.3 17.27 204.69
 100.00 6 58 9 2839.31 -28.73 84.73 280.20 81.37 7 45 29 2239.3 -29.63 76.04
 100.00 22 17 15 4646.22 21.85 193.89 267.32 69.08 23 34 41 4046.2 18.81 186.42
 110.00 8 22 40 2574.88 -33.36 65.43 280.99 82.06 9 5 35 1974.9 -34.10 56.27
 110.00 23 9 14 4483.41 26.19 179.64 265.41 67.21 24 23 58 3883.4 22.88 172.05

MID-COURSE EXECUTION ACCURACY
 SGT 1137.4 SGR 474.0 SCS 45.4
 RRT -.0065 RRF .0039 RTF -.7485
 SGB 1232.2 R23 .0020 R13 .7485
 SGI 1137.4 SCS 474.0 THA 179.81

ORBIT DETERMINATION ACCURACY
 ST 486.8 SR 430.5 SS 459.0
 CRT .6995 CRS .7899 CST .9897
 LSA 752.1 MSA 259.2 SSA 15.2
 EL1 600.0 EL2 249.6 ALF 40.00

DIFFERENTIAL CORRECTIONS
 TDE -.8181 TRA-2.0525 TC3 -.1633 BAU .3287
 RDE -.9069 RRA .4040 RC3 -.0277 FAU .01301
 FDE .4828 FRA .9009 FC3 -.0758 BSP 3297
 BDE 1.2214 BRA 2.0918 BC3 .1656 FSP -106

LAUNCH DATE DEC 10 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 181.161

RL 147.31 LAL -0.00 LOL 78.00 VL 21.698 GAL 17.12 AZL 86.57 MCA 66.13 SMA 99.71 ECC .54299 INC 3.4349 V1 30.244
 RP 107.50 LAP 3.14 LOP 144.10 VP 33.737 GAP -32.61 AZP 88.61 TAL 164.29 TAP 230.42 RCA 45.57 APO 153.85 V2 35.253
 RC 62.196 GL 6.11 GP .15 ZAL 55.59 ZAP 20.55 ETS 180.30 ZAE 139.82 ETE 192.36 ZAC 79.58 ETC 165.46 CLP 20.55

PLANETOCENTRIC CONIC

C3 136.098 VHL 11.666 DLA 14.48 RAL 18.60 RAD 6570.5 VEL 16.045 PTH 2.83 VHP 19.476 DPA -9.02 RAP 347.16 ECC 3.2398
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 0 3134.19 -26.89 106.09 279.70 80.78 6 18 14 2534.2 -27.89 97.57
 90.00 21 12 26 4843.95 19.21 209.51 267.51 68.79 22 33 10 4244.0 16.16 202.16
 100.00 6 55 6 2846.87 -28.65 85.28 280.01 81.09 7 42 33 2246.9 -29.59 76.60
 100.00 22 26 2 4606.50 20.87 191.36 266.82 68.10 23 42 49 4006.5 17.71 183.98
 110.00 8 20 40 2579.11 -33.32 65.76 280.83 81.87 9 3 39 1979.1 -34.08 56.60
 110.00 23 16 57 4447.03 25.21 177.27 264.82 66.11 24 31 4 3847.0 21.77 169.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.8208 TRA-2.0594 TC3 -.1698 BAU .3139 SGT 1187.7 SGR 474.3 SG3 49.1 ST 510.7 SR 431.1 SS 478.2
 ROE -.8698 RRA .3812 RC3 -.0305 FAU .01327 RRT -.0028 RRF .0004 RTF -.7630 CRT .6996 CRS .7916 CST .9894
 FDE .5014 FRA .9308 FC3 -.0844 BSP 3498 SGB 1278.9 R23 .0021 R13 .7630 LSA 778.6 MSA 262.3 SSA 15.3
 BOE 1.1959 BRA 2.0944 BC3 .1725 FSP -117 SGI 1187.7 SG2 474.3 TMA 179.92 EL1 618.0 EL2 254.6 ALF 38.16

LAUNCH DATE DEC 10 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 187.538

RL 147.31 LAL -0.00 LOL 78.00 VL 22.143 GAL 16.37 AZL 86.57 MCA 69.38 SMA 101.19 ECC .52022 INC 3.4286 V1 30.244
 RP 107.51 LAP 3.21 LOP 147.35 VP 34.022 GAP -31.16 AZP 88.79 TAL 163.57 TAP 232.95 RCA 48.55 APO 153.83 V2 35.250
 RC 60.278 GL 6.53 GP .16 ZAL 54.76 ZAP 19.15 ETS 180.46 ZAE 140.78 ETE 193.14 ZAC 81.37 ETC 165.64 CLP 19.15

PLANETOCENTRIC CONIC

C3 124.811 VHL 11.172 DLA 15.19 RAL 19.26 RAD 6570.3 VEL 15.689 PTH 2.79 VHP 18.707 DPA -8.30 RAP 348.88 ECC 3.0541
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 22 10 3142.91 -26.80 106.71 279.39 80.49 6 14 33 2542.9 -27.84 98.20
 90.00 21 21 35 4801.90 18.15 206.88 267.00 67.89 22 41 37 4201.9 15.00 199.62
 100.00 6 51 47 2853.91 -28.58 85.79 279.72 80.83 7 39 21 2253.9 -29.55 77.12
 100.00 22 34 40 4566.13 19.82 188.81 266.27 67.15 23 50 46 3966.1 16.55 181.54
 110.00 8 18 27 2582.71 -33.28 66.03 280.56 81.71 9 1 30 1982.7 -34.07 56.88
 110.00 23 24 28 4410.09 24.17 174.90 264.19 65.06 24 37 59 3810.1 20.61 167.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.8234 TRA-2.0647 TC3 -.1758 BAU .2986 SGT 1239.5 SGR 473.8 SG3 53.0 ST 535.5 SR 431.0 SS 498.0
 ROE -.8330 RRA .3587 RC3 -.0336 FAU .01356 RRT -.0012 RRF -.0035 RTF -.7768 CRT .7001 CRS .7934 CST .9891
 FDE .5210 FRA .9616 FC3 -.0941 BSP 3715 SGB 1327.0 R23 -.0023 R13 -.7768 LSA 806.4 MSA 264.8 SSA 15.5
 BOE 1.1713 BRA 2.0956 BC3 .1789 FSP -128 SGI 1239.5 SG2 473.8 TMA .03 EL1 636.9 EL2 258.8 ALF 36.32

LAUNCH DATE DEC 10 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 193.976

RL 147.31 LAL -0.00 LOL 78.00 VL 22.561 GAL 15.65 AZL 86.58 MCA 72.62 SMA 102.65 ECC .49823 INC 3.4226 V1 30.244
 RP 107.52 LAP 3.27 LOP 150.60 VP 34.291 GAP -29.77 AZP 88.98 TAL 162.87 TAP 235.49 RCA 51.51 APO 153.80 V2 35.246
 RC 58.412 GL 6.96 GP .16 ZAL 53.98 ZAP 17.76 ETS 180.63 ZAE 141.86 ETE 194.00 ZAC 83.17 ETC 165.81 CLP 17.76

PLANETOCENTRIC CONIC

C3 114.498 VHL 10.700 DLA 15.90 RAL 19.88 RAD 6570.2 VEL 15.357 PTH 2.75 VHP 17.962 DPA -7.56 RAP 350.60 ECC 2.8843
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 2 3151.24 -26.70 107.30 278.98 80.21 6 10 33 2551.2 -27.78 98.80
 90.00 21 30 37 4759.12 17.04 204.23 266.44 67.03 22 49 56 4159.1 13.78 197.07
 100.00 6 48 11 2860.50 -28.50 86.26 279.33 80.59 7 35 52 2260.5 -29.51 77.60
 100.00 22 43 9 4525.09 18.71 186.27 265.68 66.26 23 58 34 3925.1 15.35 179.09
 110.00 8 16 0 2585.75 -33.25 66.26 280.19 81.58 8 59 6 1985.7 -34.06 57.12
 110.00 23 31 50 4372.61 23.08 172.54 263.52 64.05 24 44 42 3772.6 19.40 165.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.8291 TRA-2.0712 TC3 -.1822 BAU .2845 SGT 1295.7 SGR 472.5 SG3 57.4 ST 563.0 SR 430.3 SS 519.1
 ROE -.7966 RRA .3364 RC3 -.0368 FAU .01387 RRT .0067 RRF -.0081 RTF -.7897 CRT .7017 CRS .7956 CST .9890
 FDE .5422 FRA .9937 FC3 -.1049 BSP 3870 SGB 1379.1 R23 -.0020 R13 -.7898 LSA 836.8 MSA 266.6 SSA 15.6
 BOE 1.1498 BRA 2.0983 BC3 .1858 FSP -140 SGI 1295.7 SG2 472.5 TMA .16 EL1 658.3 EL2 262.1 ALF 34.40

LAUNCH DATE DEC 10 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 200.469

RL 147.31 LAL -0.00 LOL 78.00 VL 22.953 GAL 14.98 AZL 86.58 MCA 75.87 SMA 104.09 ECC .47704 INC 3.4168 V1 30.244
 RP 107.53 LAP 3.31 LOP 153.85 VP 34.545 GAP -28.43 AZP 89.16 TAL 162.20 TAP 238.07 RCA 54.43 APO 153.74 V2 35.241
 RC 56.605 GL 7.41 GP .17 ZAL 53.27 ZAP 16.38 ETS 180.81 ZAE 143.06 ETE 194.93 ZAC 84.97 ETC 165.96 CLP 16.38

PLANETOCENTRIC CONIC

C3 105.074 VHL 10.251 DLA 16.60 RAL 20.44 RAD 6570.0 VEL 15.047 PTH 2.71 VHP 17.241 DPA -6.81 RAP 352.32 ECC 2.7292
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 35 3159.28 -26.61 107.87 278.47 79.94 6 6 14 2559.3 -27.73 99.39
 90.00 21 39 33 4715.58 15.86 201.58 265.84 66.23 22 58 9 4115.6 12.51 194.50
 100.00 6 44 19 2866.70 -28.43 86.71 278.83 80.37 7 32 5 2266.7 -29.47 78.06
 100.00 22 51 31 4483.39 17.55 185.72 265.05 65.41 24 6 14 3883.4 14.09 176.64
 110.00 8 13 18 2588.27 -33.23 66.46 279.72 81.47 8 56 26 1988.3 -34.05 57.31
 110.00 23 39 1 4334.59 21.92 170.19 262.81 63.09 24 51 15 3734.6 18.14 163.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.8327 TRA-2.0736 TC3 -.1871 BAU .2688 SGT 1351.5 SGR 470.4 SG3 62.1 ST 590.3 SR 428.8 SS 540.7
 ROE -.7608 RRA .3145 RC3 -.0402 FAU .01424 RRT .0121 RRF -.0132 RTF -.8022 CRT .7032 CRS .7979 CST .9888
 FDE .5642 FRA 1.0266 FC3 -.1173 BSP 4083 SGB 1431.0 R23 -.0022 R13 -.8023 LSA 867.6 MSA 267.8 SSA 15.7
 BOE 1.1280 BRA 2.0973 BC3 .1913 FSP -153 SGI 1351.5 SG2 470.4 TMA .27 EL1 679.9 EL2 264.7 ALF 32.60

LAUNCH DATE DEC 10 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC
 RL 147.31 LAL -0.00 LOL 78.00 VL 23.320 GAL 14.30 AZL 86.59 MCA 79.11 SMA 105.49 ECC .45665 INC 3.4111 V1 30.244
 RP 107.55 LAP 3.35 LOP 157.10 VP 34.784 GAP -27.15 AZP 89.35 TAL 161.56 TAP 240.67 RCA 57.32 APO 153.67 V2 35.235
 RC 54.864 GL 7.87 GP .18 ZAL 52.60 ZAP 15.01 ETS 181.01 ZAE 144.39 ETE 195.96 ZAC 86.78 ETC 166.10 CLP 15.01

DISTANCE 207.011

PLANETOCENTRIC CONIC
 C3 96.463 VHL 9.822 DLA 17.29 RAL 20.95 RAD 6569.9 VEL 14.758 PTH 2.67 VHP 16.541 DPA -6.06 RAP 354.04 ECC 2.5875
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 8 48 3167.12 -26.51 108.43 277.86 79.67 6 1 35 2567.1 -27.67 99.95
 90.00 21 48 24 4671.28 14.63 198.91 265.21 65.48 23 6 15 4071.3 11.20 191.91
 100.00 6 40 8 2872.61 -28.37 87.14 278.23 80.15 7 28 0 2272.6 -29.43 78.50
 100.00 22 59 45 4441.03 16.33 181.16 264.38 64.61 24 13 46 3841.0 12.78 174.17
 110.00 8 10 21 2590.35 -33.21 66.62 279.15 81.38 8 53 31 1990.4 -34.04 57.48
 110.00 23 46 2 4296.05 20.72 167.85 262.07 62.18 24 57 38 3696.0 16.83 160.88

MID-COURSE EXECUTION ACCURACY
 SGT 1409.0 SGR 467.5 SG3 67.2
 RRT .0183 RRF -.0189 RTF -.8141
 SGB 1484.5 R23 -.0022 R13 -.8141
 SGI 1409.0 SG2 467.4 TMA .39

ORBIT DETERMINATION ACCURACY
 ST 618.8 SR 426.6 SS 563.4
 CRT .7053 CRS .8005 CST .9887
 LSA 900.1 MSA 268.2 SSA 15.8
 EL1 702.9 EL2 266.3 ALF 30.83

DIFFERENTIAL CORRECTIONS
 TDE -.8368 TRA-2.0741 TC3 -.1912 BAU .2530
 ROE -.7255 RRA .2930 RC3 -.0438 FAU .01465
 FDE .5877 FRA 1.0608 FC3 -.1315 BSP 4304
 BOE 1.1075 BRA 2.0947 BC3 .1962 FSP -168

LAUNCH DATE DEC 10 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC
 RL 147.31 LAL -0.00 LOL 78.00 VL 23.663 GAL 13.66 AZL 86.59 MCA 82.36 SMA 106.86 ECC .43708 INC 3.4056 V1 30.244
 RP 107.57 LAP 3.38 LOP 160.35 VP 35.009 GAP -25.82 AZP 89.55 TAL 160.95 TAP 243.31 RCA 60.16 APO 153.57 V2 35.229
 RC 53.197 GL 8.34 GP .19 ZAL 52.00 ZAP 13.64 ETS 181.23 ZAE 145.86 ETE 197.11 ZAC 88.60 ETC 166.22 CLP 13.64

DISTANCE 213.598

PLANETOCENTRIC CONIC
 C3 88.596 VHL 9.413 DLA 17.98 RAL 21.40 RAD 6569.7 VEL 14.489 PTH 2.63 VHP 15.864 DPA -5.30 RAP 355.76 ECC 2.4581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 3 40 3174.88 -26.42 108.98 277.15 79.41 5 56 35 2574.9 -27.61 100.51
 90.00 21 57 10 4626.20 13.34 196.23 264.54 64.79 23 14 16 4026.2 9.83 189.31
 100.00 6 35 38 2878.31 -28.30 87.55 277.54 79.95 7 23 36 2278.3 -29.40 78.91
 100.00 23 7 53 4398.00 15.06 178.60 263.68 63.87 24 21 11 3798.0 11.43 171.69
 110.00 8 7 7 2592.07 -33.19 66.75 278.48 81.30 8 50 19 1992.1 -34.03 57.61
 110.00 23 52 53 4257.01 19.46 165.52 261.30 61.33 25 3 50 3657.0 15.48 158.66

MID-COURSE EXECUTION ACCURACY
 SGT 1468.1 SGR 463.8 SG3 72.7
 RRT .0251 RRF -.0253 RTF -.8254
 SGB 1539.6 R23 -.0023 R13 -.8254
 SGI 1468.2 SG2 463.7 TMA .50

ORBIT DETERMINATION ACCURACY
 ST 648.5 SR 423.8 SS 587.1
 CRT .7079 CRS .8034 CST .9886
 LSA 934.2 MSA 268.0 SSA 15.9
 EL1 727.3 EL2 266.9 ALF 29.11

DIFFERENTIAL CORRECTIONS
 TDE -.8410 TRA-2.0727 TC3 -.1942 BAU .2369
 ROE -.6908 RRA .2720 RC3 -.0475 FAU .01510
 FDE .6128 FRA 1.0964 FC3 -.1476 BSP 4530
 BOE 1.0884 BRA 2.0905 BC3 .2000 FSP -184

LAUNCH DATE DEC 10 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC
 RL 147.31 LAL -0.00 LOL 78.00 VL 23.985 GAL 13.05 AZL 86.60 MCA 85.60 SMA 108.20 ECC .41832 INC 3.4002 V1 30.244
 RP 107.59 LAP 3.39 LOP 163.60 VP 35.221 GAP -24.73 AZP 89.74 TAL 160.38 TAP 245.98 RCA 62.94 APO 153.46 V2 35.222
 RC 51.611 GL 8.83 GP .20 ZAL 51.45 ZAP 12.27 ETS 181.48 ZAE 147.47 ETE 198.41 ZAC 90.41 ETC 166.33 CLP 12.27

DISTANCE 220.224

PLANETOCENTRIC CONIC
 C3 81.411 VHL 9.023 DLA 18.66 RAL 21.80 RAD 6569.6 VEL 14.239 PTH 2.59 VHP 15.207 DPA -4.53 RAP 357.47 ECC 2.3398
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 9 3182.67 -26.32 109.53 276.35 79.16 5 51 12 2582.7 -27.55 101.07
 90.00 22 5 53 4580.33 11.99 193.53 263.84 64.15 23 22 14 3980.3 8.42 186.68
 100.00 6 30 48 2883.91 -28.23 87.95 276.75 79.74 7 18 52 2283.9 -29.36 79.33
 100.00 23 15 56 4354.32 13.73 176.03 262.95 63.19 24 28 30 3754.3 10.03 169.21
 110.00 8 3 38 2593.49 -33.17 66.86 277.71 81.24 8 46 51 1993.5 -34.03 57.72
 110.00 0 3 32 4217.51 18.15 163.20 260.49 60.53 1 13 49 3617.5 14.09 156.44

MID-COURSE EXECUTION ACCURACY
 SGT 1528.6 SGR 459.3 SG3 78.8
 RRT .0327 RRF -.0325 RTF -.8361
 SGB 1596.1 R23 -.0024 R13 -.8361
 SGI 1528.7 SG2 459.1 TMA .62

ORBIT DETERMINATION ACCURACY
 ST 679.4 SR 420.2 SS 612.1
 CRT .7110 CRS .8066 CST .9885
 LSA 970.2 MSA 267.0 SSA 16.0
 EL1 753.0 EL2 266.6 ALF 27.46

DIFFERENTIAL CORRECTIONS
 TDE -.8456 TRA-2.0691 TC3 -.1960 BAU .2206
 ROE -.6568 RRA .2515 RC3 -.0514 FAU .01561
 FDE .6397 FRA 1.1334 FC3 -.1660 BSP 4762
 BOE 1.0707 BRA 2.0843 BC3 .2026 FSP -202

LAUNCH DATE DEC 10 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC
 RL 147.31 LAL -0.00 LOL 78.00 VL 24.286 GAL 12.47 AZL 86.61 MCA 88.84 SMA 109.50 ECC .40038 INC 3.3948 V1 30.244
 RP 107.61 LAP 3.39 LOP 166.84 VP 35.419 GAP -23.58 AZP 89.93 TAL 159.84 TAP 248.68 RCA 65.66 APO 153.34 V2 35.215
 RC 50.116 GL 9.34 GP .21 ZAL 50.96 ZAP 10.89 ETS 181.76 ZAE 149.22 ETE 199.89 ZAC 92.21 ETC 166.42 CLP 10.89

DISTANCE 226.885

PLANETOCENTRIC CONIC
 C3 74.851 VHL 8.652 DLA 19.34 RAL 22.15 RAD 6569.5 VEL 14.007 PTH 2.56 VHP 14.571 DPA -3.75 RAP 359.18 ECC 2.2319
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 15 3190.62 -26.22 110.08 275.46 78.89 5 45 25 2590.6 -27.48 101.65
 90.00 22 14 35 4533.67 10.59 190.82 263.11 63.58 23 30 9 3933.7 6.96 184.02
 100.00 6 25 37 2889.52 -28.16 88.35 275.88 79.54 7 13 47 2289.5 -29.32 79.74
 100.00 23 23 54 4310.01 12.36 173.46 262.19 62.56 24 35 44 3710.0 8.59 166.70
 110.00 7 59 51 2594.71 -33.16 66.95 276.87 81.18 8 43 6 1994.7 -34.02 57.81
 110.00 0 10 5 4177.58 16.80 160.90 259.67 59.78 1 19 43 3577.6 12.66 154.24

MID-COURSE EXECUTION ACCURACY
 SGT 1591.1 SGR 454.0 SG3 85.4
 RRT .0413 RRF -.0406 RTF -.8462
 SGB 1854.6 R23 -.0025 R13 -.8463
 SGI 1591.2 SG2 453.6 TMA .74

ORBIT DETERMINATION ACCURACY
 ST 711.6 SR 415.9 SS 638.5
 CRT .7148 CRS .8101 CST .9884
 LSA 1008.2 MSA 265.3 SSA 16.1
 EL1 780.4 EL2 265.2 ALF 25.88

DIFFERENTIAL CORRECTIONS
 TDE -.8508 TRA-2.0640 TC3 -.1966 BAU .2044
 ROE -.6236 RRA .2315 RC3 -.0553 FAU .01617
 FDE .6688 FRA 1.1725 FC3 -.1870 BSP 4994
 BOE 1.0549 BRA 2.0769 BC3 .2042 FSP -221

LAUNCH DATE DEC 10 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 233.576

RL 147.31 LAL -.00 LOL 78.00 VL 24.568 GAL 11.91 AZL 86.61 MCA 92.08 SMA 110.75 ECC .38324 INC 3.3894 V1 30.244
 RP 107.64 LAP 3.39 LOP 170.09 VP 35.605 GAP -22.48 AZP 90.12 TAL 159.33 TAP 251.41 RCA 68.31 APO 153.20 V2 35.207
 RC 48.721 GL 9.86 GP .22 ZAL 50.53 ZAP 9.52 ETS 182.10 ZAE 151.10 ETE 201.59 ZAC 94.02 ETC 166.50 CLP 9.52

PLANETOCENTRIC CONIC

C3 68.864 VHL 8.298 OLA 20.01 RAL 22.45 RAD 6569.3 VEL 13.792 PTH 2.52 VHP 13.955 DPA -2.98 RAP .88 ECC 2.1333
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 54 3198.88 -26.11 110.66 274.49 78.62 5 39 13 2598.9 -27.41 102.24
 90.00 22 23 16 4486.21 9.14 188.09 262.36 63.08 23 38 3 3886.2 5.46 181.34
 100.00 6 20 4 2895.26 -28.09 88.76 274.92 79.34 7 8 19 2295.3 -29.28 80.16
 100.00 23 31 48 4265.07 10.94 170.89 261.41 62.01 24 42 53 3665.1 7.11 164.19
 110.00 7 55 47 2595.81 -33.15 67.03 275.93 81.14 8 39 3 1995.8 -34.02 57.90
 110.00 0 16 30 4137.29 15.41 158.61 258.82 59.10 1 25 28 3537.3 11.20 152.03

DIFFERENTIAL CORRECTIONS

TDE -.8564 TRA-2.0565 TC3 -.1953 BAU .1880
 RDE -.5912 RRA .2122 RC3 -.0594 FAU .01679
 FDE .7002 FRA 1.2133 FC3 -.2111 BSP 5228
 BDE 1.0406 BRA 2.0674 BC3 .2042 FSP -243

MID-COURSE EXECUTION ACCURACY

SGT 1654.8 SGR 447.9 SG3 92.7
 RRT .0509 RRF -.0495 RTF -.8558
 SGB 1714.3 R23 -.0025 R13 -.8558
 SG1 1655.0 SG2 447.3 THA .85

ORBIT DETERMINATION ACCURACY

ST 745.2 SR 410.9 SS 666.3
 CRT .7192 CRS .8139 CST .9884
 LSA 1048.2 MSA 262.8 SSA 16.2
 EL1 809.3 EL2 262.8 ALF 24.37

LAUNCH DATE DEC 10 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 240.291

RL 147.31 LAL -.00 LOL 78.00 VL 24.831 GAL 11.37 AZL 86.62 MCA 95.32 SMA 111.97 ECC .36690 INC 3.3840 V1 30.244
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.778 GAP -21.42 AZP 90.31 TAL 158.87 TAP 254.18 RCA 70.89 APO 153.05 V2 35.198
 RC 47.437 GL 10.40 GP .24 ZAL 50.16 ZAP 8.14 ETS 182.54 ZAE 153.11 ETE 203.58 ZAC 95.81 ETC 166.56 CLP 8.13

PLANETOCENTRIC CONIC

C3 63.401 VHL 7.962 OLA 20.68 RAL 22.69 RAD 6569.2 VEL 13.593 PTH 2.48 VHP 13.359 DPA -2.20 RAP 2.56 ECC 2.0434
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 7 3207.62 -25.99 111.28 273.43 78.34 5 32 34 2607.6 -27.34 102.87
 90.00 22 31 59 4437.93 7.64 185.33 261.58 62.65 23 45 57 3837.9 3.92 178.63
 100.00 6 14 8 2901.25 -28.02 89.19 273.89 79.12 7 2 29 2301.2 -29.23 80.60
 100.00 23 39 39 4219.53 9.47 168.30 260.60 61.51 24 49 59 3619.5 5.59 161.66
 110.00 7 51 25 2596.87 -33.14 67.11 274.92 81.09 8 34 42 1996.9 -34.01 57.98
 110.00 0 22 47 4096.67 13.97 156.33 257.95 58.48 1 31 4 3496.7 9.70 149.84

DIFFERENTIAL CORRECTIONS

TDE -.8623 TRA-2.0469 TC3 -.1921 BAU .1715
 RDE -.5596 RRA .1934 RC3 -.0635 FAU .01748
 FDE .7343 FRA 1.2565 FC3 -.2387 BSP 5468
 BDE 1.0280 BRA 2.0560 BC3 .2023 FSP -266

MID-COURSE EXECUTION ACCURACY

SGT 1719.7 SGR 441.0 SG3 100.7
 RRT .0615 RRF -.0595 RTF -.8649
 SGB 1775.3 R23 -.0026 R13 -.8649
 SG1 1719.9 SG2 440.1 THA .97

ORBIT DETERMINATION ACCURACY

ST 779.9 SR 405.1 SS 695.8
 CRT .7242 CRS .8181 CST .9885
 LSA 1090.3 MSA 259.7 SSA 16.2
 EL1 839.6 EL2 259.5 ALF 22.93

LAUNCH DATE DEC 10 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 247.029

RL 147.31 LAL -.00 LOL 78.00 VL 25.077 GAL 10.86 AZL 86.62 MCA 98.55 SMA 113.14 ECC .35135 INC 3.3785 V1 30.244
 RP 107.69 LAP 3.34 LOP 176.57 VP 35.940 GAP -20.39 AZP 90.50 TAL 158.44 TAP 256.99 RCA 73.39 APO 152.89 V2 35.189
 RC 46.274 GL 10.95 GP .25 ZAL 49.84 ZAP 6.75 ETS 183.12 ZAE 155.24 ETE 205.95 ZAC 97.59 ETC 166.60 CLP 6.74

PLANETOCENTRIC CONIC

C3 58.420 VHL 7.643 OLA 21.34 RAL 22.87 RAD 6569.1 VEL 13.408 PTH 2.45 VHP 12.781 DPA -1.43 RAP 4.24 ECC 1.9614
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 50 3216.99 -25.86 111.93 272.30 78.03 5 25 27 2617.0 -27.25 103.54
 90.00 22 40 45 4388.81 6.10 182.55 260.79 62.29 23 53 54 3788.8 2.34 175.88
 100.00 6 7 47 2907.61 -27.93 89.65 272.78 78.90 6 56 14 2307.6 -29.18 81.07
 100.00 23 47 29 4173.42 7.96 165.71 259.78 61.09 24 57 3 3573.4 4.04 159.11
 110.00 7 46 44 2597.99 -33.13 67.20 273.84 81.04 8 30 2 1998.0 -34.01 58.07
 110.00 0 28 57 4055.81 12.51 154.07 257.06 57.92 1 36 33 3455.8 8.18 147.65

DIFFERENTIAL CORRECTIONS

TDE -.8690 TRA-2.0353 TC3 -.1869 BAU .1552
 RDE -.5289 RRA .1753 RC3 -.0676 FAU .01825
 FDE .7715 FRA 1.3022 FC3 -.2705 BSP 5707
 BDE 1.0173 BRA 2.0428 BC3 .1987 FSP -292

MID-COURSE EXECUTION ACCURACY

SGT 1785.8 SGR 433.3 SG3 109.4
 RRT .0733 RRF -.0707 RTF -.8734
 SGB 1837.6 R23 -.0026 R13 -.8735
 SG1 1786.1 SG2 432.1 THA 1.08

ORBIT DETERMINATION ACCURACY

ST 816.0 SR 398.8 SS 727.1
 CRT .7299 CRS .8226 CST .9886
 LSA 1134.8 MSA 255.8 SSA 16.3
 EL1 871.7 EL2 255.2 ALF 21.57

LAUNCH DATE DEC 10 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 253.783

RL 147.31 LAL -.00 LOL 78.00 VL 25.306 GAL 10.37 AZL 86.63 MCA 101.79 SMA 114.27 ECC .33657 INC 3.3730 V1 30.244
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.092 GAP -19.40 AZP 90.69 TAL 158.05 TAP 259.84 RCA 75.81 APO 152.73 V2 35.179
 RC 45.244 GL 11.51 GP .27 ZAL 49.58 ZAP 5.34 ETS 183.97 ZAE 157.46 ETE 208.83 ZAC 99.36 ETC 166.62 CLP 5.34

PLANETOCENTRIC CONIC

C3 53.880 VHL 7.340 OLA 22.00 RAL 23.01 RAD 6568.9 VEL 13.238 PTH 2.42 VHP 12.221 DPA -.66 RAP 5.90 ECC 1.8867
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 1 3227.21 -25.71 112.64 271.10 77.71 5 17 48 2627.2 -27.15 104.27
 90.00 22 49 37 4338.81 4.50 179.74 259.99 62.01 24 1 55 3738.8 .73 173.10
 100.00 6 1 0 2914.50 -27.84 90.14 271.60 78.65 6 49 34 2314.5 -29.12 81.57
 100.00 23 55 19 4126.75 6.42 163.10 258.94 60.74 25 4 6 3526.8 2.47 156.54
 110.00 7 41 46 2599.26 -33.11 67.29 272.70 80.98 8 25 5 1999.3 -34.00 58.17
 110.00 0 34 58 4014.75 11.01 151.83 256.16 57.43 1 41 53 3414.8 6.64 145.47

DIFFERENTIAL CORRECTIONS

TDE -.8762 TRA-2.0216 TC3 -.1794 BAU .1392
 RDE -.4992 RRA .1578 RC3 -.0716 FAU .01910
 FDE .8122 FRA 1.3508 FC3 -.3070 BSP 5944
 BDE 1.0084 BRA 2.0278 BC3 .1932 FSP -321

MID-COURSE EXECUTION ACCURACY

SGT 1853.0 SGR 424.9 SG3 119.0
 RRT .0865 RRF -.0831 RTF -.8814
 SGB 1901.1 R23 -.0026 R13 -.8814
 SG1 1853.4 SG2 423.2 THA 1.20

ORBIT DETERMINATION ACCURACY

ST 853.5 SR 391.7 SS 760.3
 CRT .7363 CRS .8275 CST .9887
 LSA 1181.8 MSA 251.3 SSA 16.3
 EL1 905.3 EL2 249.9 ALF 20.29

LAUNCH DATE DEC 10 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 25.521 GAL 9.90 AZL 86.63 MCA 105.02 SMA 115.35 ECC .32255 INC 3.3673 V1 30.244
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.232 GAP -18.45 AZP 90.87 TAL 157.70 TAP 262.72 RCA 78.14 APO 152.56 V2 35.169
 RC 44.357 GL 12.09 GP .29 ZAL 49.38 ZAP 3.93 ETS 185.39 ZAE 159.76 ETE 212.40 ZAC 101.11 ETC 166.63 CLP 3.92

PLANETOCENTRIC CONIC

C3 49.745 VHL 7.053 DLA 22.65 RAL 23.08 RAD 6568.8 VEL 13.081 PTH 2.39 VHP 11.680 DPA .11 RAP 7.54 ECC 1.8187
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 38 3238.47 -25.54 113.43 269.83 77.35 5 9 37 2638.5 -27.03 105.08
 90.00 22 58 36 4287.88 2.87 176.88 259.18 61.82 24 10 4 3687.9 -92 170.26
 100.00 5 53 47 2922.04 -27.74 90.68 270.36 78.39 6 42 29 2322.0 -29.06 82.12
 100.00 0 7 5 4079.54 4.84 160.49 258.10 60.47 1 15 5 3479.5 .87 153.95
 110.00 7 36 28 2600.76 -33.10 67.41 271.49 80.92 8 19 49 2000.8 -34.00 58.29
 110.00 0 40 53 3973.58 9.49 149.61 255.25 57.01 1 47 7 3373.6 5.08 143.30

DIFFERENTIAL CORRECTIONS

TDE -.8836 TRA-2.0055 TC3 -.1689 BAU .1230 SGT 1920.6 SGR 415.7 SG3 129.6 ST 892.0 SR 384.0 SS 795.7
 RDE -.4705 RRA .1410 RC3 -.0754 FAU .02005 RRT .1010 RRF -.0969 RTF -.8891 CRT .7433 CRS .8327 CST .9889
 FDE .8567 FRA 1.4026 FC3 -.3490 BSP 6189 SGB 1965.0 R23 -.0027 R13 -.8891 LSA 1231.1 MSA 246.1 SSA 16.3
 BOE 1.0010 BRA 2.0105 BC3 .1850 FSP -352 SGI 1921.0 SG2 413.5 THA 1.31 EL1 940.1 EL2 243.8 ALF 19.08

LAUNCH DATE DEC 10 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 25.720 GAL 9.45 AZL 86.64 MCA 108.25 SMA 116.38 ECC .30927 INC 3.3614 V1 30.244
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.363 GAP -17.53 AZP 91.05 TAL 157.39 TAP 265.64 RCA 80.39 APO 152.38 V2 35.158
 RC 43.625 GL 12.67 GP .31 ZAL 49.24 ZAP 2.90 ETS 188.40 ZAE 162.08 ETE 216.92 ZAC 102.84 ETC 166.62 CLP 2.48

PLANETOCENTRIC CONIC

C3 45.980 VHL 6.781 DLA 23.29 RAL 23.11 RAD 6568.7 VEL 12.936 PTH 2.36 VHP 11.156 DPA .87 RAP 9.16 ECC 1.7567
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 6 38 3251.02 -25.35 114.30 268.50 76.95 5 0 49 2651.0 -26.90 105.97
 90.00 23 7 48 4235.94 1.20 173.98 258.37 61.71 24 18 24 3635.9 -2.59 167.36
 100.00 5 46 5 2930.40 -27.62 91.27 269.06 78.10 6 34 55 2330.4 -28.98 82.73
 100.00 0 14 58 4031.80 3.23 157.86 257.24 60.27 1 22 10 3431.8 -.75 151.33
 110.00 7 30 52 2602.58 -33.08 67.55 270.23 80.84 8 14 14 2002.6 -33.99 58.43
 110.00 0 46 41 3932.38 7.96 147.41 254.33 56.65 1 52 13 3332.4 3.52 141.14

DIFFERENTIAL CORRECTIONS

TDE -.8918 TRA-1.9878 TC3 -.1557 BAU .1073 SGT 1989.1 SGR 405.8 SG3 141.3 ST 932.1 SR 375.7 SS 833.6
 RDE -.4428 RRA .1248 RC3 -.0791 FAU .02110 RRT .1171 RRF -.1122 RTF -.8962 CRT .7511 CRS .8384 CST .9892
 FDE .9057 FRA 1.4581 FC3 -.3974 BSP 6427 SGB 2030.0 R23 -.0028 R13 -.8963 LSA 1283.3 MSA 240.4 SSA 16.4
 BOE .9957 BRA 1.9917 BC3 .1746 FSP -387 SGI 1989.6 SG2 402.9 THA 1.43 EL1 976.7 EL2 236.7 ALF 17.93

LAUNCH DATE DEC 10 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 25.906 GAL 9.02 AZL 86.64 MCA 111.48 SMA 117.37 ECC .29671 INC 3.3554 V1 30.244
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.484 GAP -16.64 AZP 91.23 TAL 157.12 TAP 268.60 RCA 82.55 APO 152.20 V2 35.147
 RC 43.055 GL 13.27 GP .33 ZAL 49.15 ZAP 1.07 ETS 199.51 ZAE 164.37 ETE 222.79 ZAC 104.55 ETC 166.59 CLP 1.02

PLANETOCENTRIC CONIC

C3 42.555 VHL 6.523 DLA 23.93 RAL 23.08 RAD 6568.6 VEL 12.803 PTH 2.33 VHP 10.649 DPA 1.63 RAP 10.76 ECC 1.7003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 57 3265.17 -25.13 115.28 267.10 76.51 4 51 22 2665.2 -26.74 106.98
 90.00 23 17 15 4182.85 -.52 171.02 257.56 61.69 24 26 58 3582.8 -4.30 164.38
 100.00 5 37 53 2939.72 -27.49 91.93 267.70 77.77 6 26 53 2339.7 -28.90 83.41
 100.00 0 22 56 3983.52 1.60 155.20 256.38 60.15 1 29 20 3383.5 -2.39 148.68
 110.00 7 24 57 2604.78 -33.05 67.71 268.92 80.74 8 8 22 2004.8 -33.98 58.60
 110.00 0 52 22 3891.24 6.41 145.23 253.40 56.35 1 57 13 3291.2 1.95 138.99

DIFFERENTIAL CORRECTIONS

TDE -.9005 TRA-1.9677 TC3 -.1392 BAU .0920 SGT 2057.5 SGR 395.2 SG3 154.2 ST 973.3 SR 366.9 SS 874.0
 RDE -.4161 RRA .1094 RC3 -.0824 FAU .02228 RRT .1351 RRF -.1293 RTF -.9029 CRT .7595 CRS .8444 CST .9894
 FDE .9598 FRA 1.5177 FC3 -.4532 BSP 6663 SGB 2095.1 R23 -.0028 R13 -.9030 LSA 1338.1 MSA 234.2 SSA 16.3
 BOE .9920 BRA 1.9707 BC3 .1618 FSP -426 SGI 2058.2 SG2 391.5 THA 1.54 EL1 1014.6 EL2 228.9 ALF 16.86

LAUNCH DATE DEC 10 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 26.079 GAL 8.61 AZL 86.65 MCA 114.70 SMA 118.31 ECC .28485 INC 3.3491 V1 30.244
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.596 GAP -15.77 AZP 91.40 TAL 156.90 TAP 271.60 RCA 84.61 APO 152.02 V2 35.135
 RC 42.657 GL 13.88 GP .36 ZAL 49.11 ZAP .59 ETS 323.66 ZAE 166.52 ETE 230.57 ZAC 106.22 ETC 166.54 CLP -4.47

PLANETOCENTRIC CONIC

C3 39.441 VHL 6.280 DLA 24.55 RAL 23.00 RAD 6568.5 VEL 12.681 PTH 2.30 VHP 10.158 DPA 2.37 RAP 12.34 ECC 1.6491
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 46 29 3281.25 -24.87 116.38 265.65 76.01 4 41 11 2681.2 -26.55 108.12
 90.00 23 27 4 4128.41 -2.27 167.99 256.75 61.77 24 35 53 3528.4 -6.03 161.32
 100.00 5 29 10 2950.19 -27.34 92.67 266.30 77.41 6 18 20 2350.2 -28.80 84.17
 100.00 0 31 0 3934.70 -.06 152.52 255.52 60.11 1 36 35 3334.7 -4.04 146.00
 110.00 7 18 44 2607.43 -33.02 67.92 267.58 80.63 8 2 11 2007.4 -33.97 58.80
 110.00 0 57 56 3850.23 4.86 143.06 252.46 56.12 2 2 7 3250.2 .38 136.85

DIFFERENTIAL CORRECTIONS

TDE -.9087 TRA-1.9448 TC3 -.1190 BAU .0772 SGT 2124.8 SGR 384.0 SG3 168.6 ST 1014.8 SR 357.5 SS 917.2
 RDE -.3906 RRA .0946 RC3 -.0853 FAU .02358 RRT .1547 RRF -.1484 RTF -.9093 CRT .7684 CRS .8507 CST .9897
 FDE 1.0195 FRA 1.5821 FC3 -.5176 BSP 6925 SGB 2159.2 R23 -.0031 R13 -.9093 LSA 1395.3 MSA 227.5 SSA 16.3
 BOE .9891 BRA 1.9471 BC3 .1464 FSP -469 SGI 2125.6 SG2 379.2 THA 1.65 EL1 1053.1 EL2 220.4 ALF 15.86

LAUNCH DATE DEC 10 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 287.685

RL 147.31 LAL -0.00 LOL 78.00 VL 26.240 GAL 8.23 AZL 86.66 MCA 117.93 SMA 119.21 ECC .27368 INC 3.3424 V1 30.244
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.699 GAP -14.94 AZP 91.57 TAL 156.71 TAP 274.64 RCA 86.58 APO 151.83 V2 35.123
 RC 42.436 GL 14.49 GP .39 ZAL 49.12 ZAP 2.02 ETS 350.37 ZAE 168.40 ETE 240.97 ZAC 107.86 ETC 166.48 CLP -1.98

PLANETOCENTRIC CONIC

C3 36.612 VML 6.051 DLA 25.17 RAL 22.87 RAD 6568.4 VEL 12.569 PTH 2.28 VMP 9.684 DPA 3.10 RAP 13.88 ECC 1.6025
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 35 8 3299.73 -24.56 117.65 264.15 75.45 4 30 8 2699.7 -26.32 109.42
 90.00 23 37 23 4072.31 -4.07 164.85 255.96 61.95 24 45 15 3472.3 -7.79 158.14
 100.00 5 19 54 2961.98 -27.16 93.50 264.86 77.01 6 9 16 2362.0 -28.68 85.03
 100.00 0 39 14 3885.30 -1.73 149.81 254.67 60.15 1 43 59 3285.3 -5.69 143.26
 110.00 7 12 13 2610.59 -32.99 68.16 266.20 80.49 7 55 43 2010.6 -33.95 59.05
 110.00 1 3 25 3809.46 3.31 140.93 251.53 55.96 2 6 54 3209.5 -1.18 134.72

DIFFERENTIAL CORRECTIONS

TDE -.9187 TRA-1.9211 TC3 -.0957 BAU .0635
 RDE -.3661 RRA .0805 RC3 -.0877 FAU .02503
 FDE 1.0861 FRA 1.6521 FC3 -.5918 BSP 7140
 BDE .9890 BRA 1.9228 BC3 .1298 FSP -516

MID-COURSE EXECUTION ACCURACY

SGT 2193.2 SGR 372.2 SG3 184.5
 RRT .1771 RRF -.1698 RTF -.9153
 SGB 2224.6 R23 -.0031 R13 -.9153
 SG1 2194.2 SG2 366.1 TMA 1.77

ORBIT DETERMINATION ACCURACY

ST 1058.5 SR 347.6 SS 963.9
 CRT .7783 CRS .8575 CST .9901
 LSA 1456.5 MSA 220.4 SSA 16.2
 EL1 1093.9 EL2 211.2 ALF 14.90

LAUNCH DATE DEC 10 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 294.470

RL 147.31 LAL -0.00 LOL 78.00 VL 26.390 GAL 7.86 AZL 86.66 MCA 121.15 SMA 120.06 ECC .26317 INC 3.3353 V1 30.244
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.794 GAP -14.14 AZP 91.73 TAL 156.56 TAP 277.71 RCA 88.46 APO 151.65 V2 35.111
 RC 42.394 GL 15.11 GP .43 ZAL 49.19 ZAP 3.56 ETS 354.76 ZAE 169.82 ETE 254.56 ZAC 109.46 ETC 166.39 CLP -3.54

PLANETOCENTRIC CONIC

C3 34.044 VML 5.835 DLA 25.77 RAL 22.69 RAD 6568.3 VEL 12.467 PTH 2.25 VMP 9.226 DPA 3.82 RAP 15.39 ECC 1.5603
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 43 3321.27 -24.19 119.11 262.59 74.81 4 18 4 2721.3 -26.04 110.93
 90.00 23 48 22 4014.04 -5.93 161.57 255.20 62.26 24 55 16 3414.0 -9.60 154.81
 100.00 5 10 2 2975.30 -26.95 94.44 263.38 76.56 5 59 37 2375.3 -28.53 85.99
 100.00 0 47 41 3835.24 -3.43 147.06 253.82 60.29 1 51 36 3235.2 -7.36 140.48
 110.00 7 5 25 2614.29 -32.95 68.44 264.79 80.33 7 48 59 2014.3 -33.93 59.34
 110.00 1 8 47 3769.02 1.77 138.81 250.59 55.86 2 11 36 3169.0 -2.72 132.61

DIFFERENTIAL CORRECTIONS

TDE -.9284 TRA-1.8949 TC3 -.0684 BAU .0512
 RDE -.3427 RRA .0671 RC3 -.0894 FAU .02665
 FDE 1.1599 FRA 1.7279 FC3 -.6777 BSP 7371
 BDE .9896 BRA 1.8961 BC3 .1126 FSP -570

MID-COURSE EXECUTION ACCURACY

SGT 2259.8 SGR 359.9 SG3 202.1
 RRT .2017 RRF -.1936 RTF -.9209
 SGB 2288.3 R23 -.0033 R13 -.9209
 SG1 2261.0 SG2 352.3 TMA 1.89

ORBIT DETERMINATION ACCURACY

ST 1102.4 SR 337.3 SS 1013.8
 CRT .7886 CRS .8646 CST .9905
 LSA 1520.3 MSA 213.0 SSA 16.1
 EL1 1135.1 EL2 201.4 ALF 14.01

LAUNCH DATE DEC 10 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 301.250

RL 147.31 LAL -0.00 LOL 78.00 VL 26.528 GAL 7.51 AZL 86.67 MCA 124.37 SMA 120.86 ECC .25330 INC 3.3277 V1 30.244
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.882 GAP -13.36 AZP 91.88 TAL 156.45 TAP 280.82 RCA 90.25 APO 151.47 V2 35.099
 RC 42.534 GL 15.73 GP .47 ZAL 49.30 ZAP 5.15 ETS 356.53 ZAE 170.57 ETE 270.93 ZAC 111.02 ETC 166.29 CLP -5.13

PLANETOCENTRIC CONIC

C3 31.714 VML 5.632 DLA 26.36 RAL 22.46 RAD 6568.3 VEL 12.373 PTH 2.23 VMP 8.783 DPA 4.52 RAP 16.86 ECC 1.5219
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 8 57 3346.82 -23.72 120.84 260.98 74.06 4 4 44 2746.8 -25.68 112.72
 90.00 0 4 16 3952.75 -7.86 158.10 254.47 62.71 1 10 9 3352.8 -11.45 151.27
 100.00 4 59 31 2990.40 -26.71 95.49 261.86 76.05 5 49 21 2390.4 -28.36 87.08
 100.00 0 56 24 3784.41 -5.14 144.26 252.99 60.51 1 59 28 3184.4 -9.03 137.63
 110.00 6 58 21 2618.55 -32.90 68.76 263.36 80.14 7 42 0 2018.6 -33.91 59.67
 110.00 1 14 3 3729.02 .24 136.73 249.66 55.82 2 16 12 3129.0 -4.25 130.52

DIFFERENTIAL CORRECTIONS

TDE -.9379 TRA-1.8667 TC3 -.0377 BAU .0415
 RDE -.3205 RRA .0542 RC3 -.0904 FAU .02846
 FDE 1.2422 FRA 1.8110 FC3 -.7768 BSP 7592
 BDE .9912 BRA 1.8675 BC3 .0980 FSP -629

MID-COURSE EXECUTION ACCURACY

SGT 2324.8 SGR 347.1 SG3 221.8
 RRT .2292 RRF -.2203 RTF -.9261
 SGB 2350.6 R23 -.0036 R13 -.9261
 SG1 2326.2 SG2 337.6 TMA 2.00

ORBIT DETERMINATION ACCURACY

ST 1146.7 SR 326.6 SS 1067.4
 CRT .7994 CRS .8720 CST .9909
 LSA 1587.0 MSA 205.4 SSA 15.9
 EL1 1176.9 EL2 191.2 ALF 13.18

LAUNCH DATE DEC 10 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 308.022

RL 147.31 LAL -0.00 LOL 78.00 VL 26.657 GAL 7.18 AZL 86.68 MCA 127.59 SMA 121.61 ECC .24405 INC 3.3195 V1 30.244
 RP 108.01 LAP 2.63 LOP 205.64 VP 36.962 GAP -12.61 AZP 92.03 TAL 156.38 TAP 283.97 RCA 91.93 APO 151.29 V2 35.086
 RC 42.853 GL 16.35 GP .52 ZAL 49.45 ZAP 6.80 ETS 357.48 ZAE 170.55 ETE 288.05 ZAC 112.52 ETC 166.17 CLP -6.78

PLANETOCENTRIC CONIC

C3 29.602 VML 5.441 DLA 26.93 RAL 22.19 RAD 6568.2 VEL 12.287 PTH 2.21 VMP 8.355 DPA 5.21 RAP 18.28 ECC 1.4872
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 53 20 3378.12 -23.12 122.94 259.29 73.18 3 49 39 2778.1 -25.21 114.89
 90.00 0 17 45 3886.85 -9.89 154.33 253.81 63.33 1 22 32 3286.8 -13.40 147.40
 100.00 4 48 17 3007.58 -26.42 96.69 260.31 75.49 5 38 25 2407.6 -28.16 88.32
 100.00 1 5 29 3732.62 -6.86 141.38 252.18 60.84 2 7 42 3132.6 -10.70 134.70
 110.00 6 51 4 2623.39 -32.84 69.12 261.92 79.93 7 34 47 2023.4 -33.88 60.04
 110.00 1 19 12 3689.58 -1.27 134.67 248.73 55.84 2 20 42 3089.6 -5.74 128.44

DIFFERENTIAL CORRECTIONS

TDE -.9476 TRA-1.8368 TC3 -.0027 BAU .0358
 RDE -.2993 RRA .0420 RC3 -.0905 FAU .03049
 FDE 1.3341 FRA 1.9021 FC3 -.8916 BSP 7809
 BDE .9937 BRA 1.8373 BC3 .0905 FSP -696

MID-COURSE EXECUTION ACCURACY

SGT 2388.1 SGR 333.9 SG3 243.8
 RRT .2599 RRF -.2503 RTF -.9310
 SGB 2411.3 R23 -.0041 R13 -.9310
 SG1 2389.7 SG2 322.2 TMA 2.12

ORBIT DETERMINATION ACCURACY

ST 1191.4 SR 315.6 SS 1125.1
 CRT .8109 CRS .8799 CST .9913
 LSA 1657.0 MSA 197.7 SSA 15.7
 EL1 1219.2 EL2 180.5 ALF 12.40

LAUNCH DATE DEC 10 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 26.775 GAL 6.87 AZL 86.69 HCA 130.80 SMA 122.33 ECC .23540 INC 3.3106 V1 30.244
 RP 108.05 LAP 2.51 LOP 208.85 VP 37.036 GAP -11.88 AZP 92.16 TAL 156.34 TAP 287.15 RCA 93.53 APO 151.12 V2 35.073
 RC 43.347 GL 16.96 GP .57 ZAL 49.65 ZAP 8.49 ETS 358.06 ZAE 169.83 ETE 303.25 ZAC 113.96 ETC 166.03 CLP -8.47

PLANETOCENTRIC CONIC

C3 27.688 VHL 5.262 DLA 27.48 RAL 21.89 RAD 6568.1 VEL 12.209 PTH 2.19 VHP 7.943 DPA 5.88 RAP 19.65 ECC 1.4557
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 46 3418.80 -22.29 125.63 257.50 72.07 3 31 45 2818.8 -24.54 117.68
 90.00 0 33 52 3812.78 -12.12 150.03 253.24 64.21 1 37 25 3212.8 -15.50 142.98
 100.00 4 36 14 3027.25 -26.08 98.05 258.73 74.85 5 26 41 2427.2 -27.90 89.73
 100.00 1 15 5 3679.57 -8.61 138.42 251.40 61.26 2 16 25 3079.6 -12.38 131.66
 110.00 6 43 34 2628.77 -32.78 69.53 260.47 79.70 7 27 23 2028.8 -33.85 60.46
 110.00 1 24 15 3650.81 -2.75 132.65 247.81 55.91 2 25 6 3050.8 -7.21 126.39

DIFFERENTIAL CORRECTIONS

TDE -.9542 TRA-1.8023 TC3 .0395 BAU .0362
 RDE -.2792 RRA .0304 RC3 -.0894 FAU .03282
 FDE 1.4357 FRA 2.0010 FC3-1.0261 BSP 8075
 BDE .9942 BRA 1.8025 BC3 .0978 FSP -773

MID-COURSE EXECUTION ACCURACY

SGT 2444.2 SGR 320.4 SG3 268.3
 RRT .2930 RRF -.2836 RTF -.9357
 SGB 2465.1 R23 -.0052 R13 -.9358
 SG1 2446.0 SG2 306.1 TMA 2.24

ORBIT DETERMINATION ACCURACY

ST 1232.8 SR 304.2 SS 1186.1
 CRT .8224 CRS .8879 CST .9917
 LSA 1727.1 MSA 190.2 SSA 15.4
 EL1 1258.4 EL2 169.6 ALF 11.69

LAUNCH DATE DEC 10 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 26.885 GAL 6.57 AZL 86.70 HCA 134.01 SMA 122.99 ECC .22733 INC 3.3008 V1 30.244
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.103 GAP -11.17 AZP 92.29 TAL 156.34 TAP 290.36 RCA 95.03 APO 150.95 V2 35.060
 RC 44.011 GL 17.57 GP .64 ZAL 49.88 ZAP 10.25 ETS 358.44 ZAE 168.66 ETE 315.31 ZAC 115.34 ETC 165.87 CLP -10.23

PLANETOCENTRIC CONIC

C3 25.956 VHL 5.095 DLA 28.01 RAL 21.55 RAD 6568.0 VEL 12.138 PTH 2.18 VHP 7.545 DPA 6.52 RAP 20.96 ECC 1.4272
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 9 38 3480.62 -20.94 129.66 255.49 70.49 3 7 39 2880.6 -23.41 121.86
 90.00 0 56 17 3718.89 -14.84 144.47 252.90 65.60 1 58 16 3118.9 -18.01 137.23
 100.00 4 23 13 3050.01 -25.66 99.62 257.13 74.12 5 14 3 2450.0 -27.59 91.35
 100.00 1 25 24 3624.73 -10.39 135.32 250.85 61.81 2 25 48 3024.7 -14.08 128.47
 110.00 6 35 55 2634.65 -32.70 69.98 259.02 79.45 7 19 50 2034.7 -33.81 60.91
 110.00 1 29 10 3612.86 -4.20 130.66 246.89 56.04 2 29 23 3012.9 -8.63 124.37

DIFFERENTIAL CORRECTIONS

TDE -.9631 TRA-1.7684 TC3 .0810 BAU .0413
 RDE -.2603 RRA .0192 RC3 -.0873 FAU .03536
 FDE 1.5512 FRA 2.1117 FC3-1.1793 BSP 8262
 BDE .9976 BRA 1.7685 BC3 .1191 FSP -856

MID-COURSE EXECUTION ACCURACY

SGT 2500.9 SGR 307.0 SG3 295.8
 RRT .3319 RRF -.3218 RTF -.9399
 SGB 2519.6 R23 -.0060 R13 -.9400
 SG1 2503.0 SG2 289.3 TMA 2.36

ORBIT DETERMINATION ACCURACY

ST 1276.6 SR 292.9 SS 1253.1
 CRT .8349 CRS .8965 CST .9921
 LSA 1803.4 MSA 182.5 SSA 15.1
 EL1 1300.2 EL2 158.3 ALF 11.01

LAUNCH DATE DEC 10 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 26.986 GAL 6.30 AZL 86.71 HCA 137.22 SMA 123.62 ECC .21982 INC 3.2899 V1 30.244
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.164 GAP -10.49 AZP 92.42 TAL 156.37 TAP 293.59 RCA 96.44 APO 150.79 V2 35.047
 RC 44.838 GL 18.16 GP .72 ZAL 50.14 ZAP 12.08 ETS 358.69 ZAE 167.27 ETE 324.41 ZAC 116.65 ETC 165.70 CLP -12.06

PLANETOCENTRIC CONIC

C3 24.390 VHL 4.939 DLA 28.51 RAL 21.17 RAD 6568.0 VEL 12.073 PTH 2.16 VHP 7.161 DPA 7.15 RAP 22.20 ECC 1.4014
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.50 1 2 17 3679.02 -18.57 143.23 253.00 67.96 2 3 36 3079.0 -21.40 135.68
 93.50 2 0 41 3489.81 -18.56 129.37 252.99 67.96 2 58 51 2889.8 -21.39 121.83
 100.00 4 8 55 3076.86 -25.15 101.45 255.49 73.29 5 0 12 2476.9 -27.20 93.24
 100.00 1 36 43 3567.21 -12.22 132.03 249.96 62.51 2 36 10 2967.2 -15.81 125.07
 110.00 6 28 11 2640.94 -32.62 70.45 257.58 79.18 7 12 11 2040.9 -33.77 61.40
 110.00 1 33 57 3575.89 -5.60 128.72 246.00 56.22 2 33 33 2975.9 -10.00 122.39

DIFFERENTIAL CORRECTIONS

TDE -.9705 TRA-1.7327 TC3 .1264 BAU .0494
 RDE -.2426 RRA .0083 RC3 -.0838 FAU .03823
 FDE 1.6806 FRA 2.2348 FC3-1.3570 BSP 8439
 BDE 1.0004 BRA 1.7327 BC3 .1516 FSP -950

MID-COURSE EXECUTION ACCURACY

SGT 2552.9 SGR 293.6 SG3 326.8
 RRT .3754 RRF -.3651 RTF -.9438
 SGB 2569.7 R23 -.0072 R13 -.9439
 SG1 2555.3 SG2 271.8 TMA 2.50

ORBIT DETERMINATION ACCURACY

ST 1318.7 SR 281.5 SS 1325.1
 CRT .8476 CRS .9053 CST .9925
 LSA 1882.3 MSA 175.0 SSA 14.7
 EL1 1340.3 EL2 146.9 ALF 10.38

LAUNCH DATE DEC 10 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 27.079 GAL 6.04 AZL 86.72 HCA 140.43 SMA 124.20 ECC .21284 INC 3.2776 V1 30.244
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.219 GAP -9.83 AZP 92.53 TAL 156.43 TAP 296.86 RCA 97.76 APO 150.63 V2 35.033
 RC 45.818 GL 18.74 GP .81 ZAL 50.43 ZAP 14.00 ETS 358.86 ZAE 165.84 ETE 331.27 ZAC 117.86 ETC 165.51 CLP -13.97

PLANETOCENTRIC CONIC

C3 22.974 VHL 4.793 DLA 28.99 RAL 20.78 RAD 6567.9 VEL 12.015 PTH 2.14 VHP 6.791 DPA 7.75 RAP 23.36 ECC 1.3781
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.51 0 36 11 3743.57 -19.24 148.26 251.75 67.89 1 38 34 3143.6 -22.08 140.68
 96.49 2 23 37 3396.01 -19.23 122.77 251.75 67.88 3 20 13 2796.0 -22.06 115.19
 100.00 3 52 49 3109.66 -24.49 103.66 253.80 72.30 4 44 39 2509.7 -26.68 95.54
 100.00 1 49 40 3505.15 -14.14 128.42 249.34 63.39 2 48 5 2905.1 -17.60 121.34
 110.00 6 20 24 2647.50 -32.54 78.94 256.15 78.90 7 4 32 2047.5 -33.73 61.91
 110.00 1 38 34 3540.08 -6.95 126.83 245.11 56.45 2 37 34 2940.1 -11.32 120.45

DIFFERENTIAL CORRECTIONS

TDE -.9742 TRA-1.6924 TC3 .1775 BAU .0596
 RDE -.2259 RRA -.0020 RC3 -.0786 FAU .04152
 FDE 1.8244 FRA 2.3699 FC3-1.5646 BSP 8651
 BDE 1.0001 BRA 1.6924 BC3 .1942 FSP -1060

MID-COURSE EXECUTION ACCURACY

SGT 2595.2 SGR 280.4 SG3 361.4
 RRT .4235 RRF -.4136 RTF -.9476
 SGB 2610.3 R23 -.0093 R13 -.9477
 SG1 2597.9 SG2 253.7 TMA 2.64

ORBIT DETERMINATION ACCURACY

ST 1355.6 SR 270.1 SS 1401.2
 CRT .8606 CRS .9143 CST .9929
 LSA 1961.0 MSA 167.9 SSA 14.1
 EL1 1375.6 EL2 135.6 ALF 9.83

LAUNCH DATE DEC 10 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 341.710

RL 147.31 LAL -0.00 LOL 78.00 VL 27.165 GAL 5.79 AZL 86.74 HCA 143.64 SMA 124.74 ECC .20638 INC 3.2634 V1 30.244
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.269 GAP -9.19 AZP 92.63 TAL 156.51 TAP 300.15 RCA 99.00 APO 150.49 V2 35.020
 RC 46.944 GL 19.29 GP .92 ZAL 50.73 ZAP 16.00 ETS 358.95 ZAE 164.47 ETE 336.53 ZAC 118.99 ETC 165.30 CLP -15.98

PLANETOCENTRIC CONIC

C3 21.695 VHL 4.658 DLA 29.44 RAL 20.37 RAD 6567.9 VEL 11.961 PTH 2.13 VHP 6.436 DPA 8.33 RAP 24.43 ECC 1.3570
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.60 0 19 22 3778.41 -19.88 151.11 250.53 67.83 1 22 21 3178.4 -22.71 143.49
 98.40 2 37 8 3333.39 -19.87 118.42 250.53 67.82 3 32 42 2733.4 -22.70 110.81
 100.00 3 33 25 3153.22 -23.56 106.56 252.02 71.05 4 25 58 2553.2 -25.93 98.56
 100.00 2 5 47 3433.82 -16.27 124.20 248.86 64.58 3 3 1 2833.8 -19.56 116.95
 110.00 6 12 42 2654.13 -32.45 71.44 254.75 78.61 6 56 57 2054.1 -33.68 62.42
 110.00 1 42 58 3505.67 -8.24 125.00 244.24 56.71 2 41 24 2905.7 -12.57 118.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9790 TRA-1.6532 TC3 .2251 BAU .0685 SGT 2635.7 SGR 268.1 SG3 400.7 ST 1393.2 SR 259.1 SS 1484.9
 RDE -.2106 RRA -.0124 RC3 -.0719 FAU .04512 RRT .4793 RRF -.4694 RTF -.9508 CRT .8743 CRS .9239 CST .9933
 FDE 1.9887 FRA 2.5237 FC3-1.8004 BSP 8765 SGB 2649.3 R23 -.0114 R13 -.9509 LSA 2046.2 MSA 161.0 SSA 13.5
 BDE 1.0014 BRA 1.6532 BC3 .2363 FSP -1177 SG1 2638.8 SG2 235.0 THA 2.81 EL1 1411.7 EL2 124.1 ALF 9.31

LAUNCH DATE DEC 10 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 348.402

RL 147.31 LAL -0.00 LOL 78.00 VL 27.243 GAL 5.57 AZL 86.75 HCA 146.84 SMA 125.24 ECC .20041 INC 3.2470 V1 30.244
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.313 GAP -8.56 AZP 92.72 TAL 156.61 TAP 303.45 RCA 100.14 APO 150.34 V2 35.007
 RC 48.205 GL 19.81 GP 1.05 ZAL 51.05 ZAP 18.11 ETS 358.97 ZAE 163.25 ETE 340.70 ZAC 120.00 ETC 165.08 CLP -18.08

PLANETOCENTRIC CONIC

C3 20.540 VHL 4.532 DLA 29.85 RAL 19.94 RAD 6567.8 VEL 11.913 PTH 2.12 VHP 6.095 DPA 8.89 RAP 25.40 ECC 1.3380
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.15 0 6 29 3801.13 -20.48 153.05 249.34 67.81 1 9 50 3201.1 -23.31 145.40
 99.85 2 46 39 3284.38 -20.47 115.05 249.34 67.79 3 41 24 2684.4 -23.30 107.40
 100.00 3 2 0 3235.40 -21.64 111.91 249.84 68.86 3 55 55 2635.4 -24.32 104.14
 100.00 2 33 50 3325.34 -19.32 117.58 248.83 66.74 3 29 15 2725.3 -22.31 110.06
 110.00 6 5 12 2660.55 -32.36 71.92 253.37 78.34 6 49 33 2060.6 -33.63 62.92
 110.00 1 47 7 3472.95 -9.46 123.25 243.39 57.00 2 45 0 2873.0 -13.74 116.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9777 TRA-1.6083 TC3 .2795 BAU .0787 SGT 2662.2 SGR 256.8 SG3 444.6 ST 1422.1 SR 248.4 SS 1572.5
 RDE -.1964 RRA -.0226 RC3 -.0630 FAU .04931 RRT .5403 RRF -.5316 RTF -.9540 CRT .8880 CRS .9336 CST .9937
 FDE 2.1703 FRA 2.6930 FC3-2.0783 BSP 8935 SGB 2674.5 R23 -.0151 R13 -.9541 LSA 2129.0 MSA 154.7 SSA 12.7
 BDE .9972 BRA 1.6083 BC3 .2865 FSP -1317 SG1 2665.8 SG2 215.8 THA 3.00 EL1 1439.2 EL2 112.9 ALF 8.87

LAUNCH DATE DEC 10 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 355.076

RL 147.31 LAL -0.00 LOL 78.00 VL 27.315 GAL 5.36 AZL 86.77 HCA 150.04 SMA 125.71 ECC .19492 INC 3.2275 V1 30.244
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.353 GAP -7.96 AZP 92.80 TAL 156.73 TAP 306.78 RCA 101.20 APO 150.21 V2 34.994
 RC 49.590 GL 20.29 GP 1.22 ZAL 51.37 ZAP 20.34 ETS 358.94 ZAE 162.24 ETE 344.13 ZAC 120.88 ETC 164.84 CLP -20.30

PLANETOCENTRIC CONIC

C3 19.497 VHL 4.416 DLA 30.21 RAL 19.52 RAD 6567.8 VEL 11.869 PTH 2.11 VHP 5.767 DPA 9.44 RAP 26.24 ECC 1.3209
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.00 23 52 11 3816.42 -21.04 154.43 248.19 67.81 24 55 47 3216.4 -23.87 146.75
 101.00 2 53 39 3244.27 -21.03 112.31 248.18 67.80 3 47 44 2644.3 -23.86 104.63
 79.00 23 52 11 3816.42 -21.04 154.43 248.19 67.81 24 55 47 3216.4 -23.87 146.75
 101.00 2 53 39 3244.27 -21.03 112.31 248.18 67.80 3 47 44 2644.3 -23.86 104.63
 110.00 5 58 3 2666.37 -32.28 72.35 252.04 78.10 6 42 30 2066.4 -33.58 63.36
 110.00 1 50 53 3442.33 -10.59 121.60 242.56 57.31 2 48 15 2842.3 -14.83 115.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9733 TRA-1.5613 TC3 .3327 BAU .0878 SGT 2679.1 SGR 247.6 SG3 494.3 ST 1445.6 SR 238.7 SS 1666.5
 RDE -.1836 RRA -.0330 RC3 -.0518 FAU .05403 RRT .6084 RRF -.6012 RTF -.9568 CRT .9022 CRS .9436 CST .9940
 FDE 2.3745 FRA 2.8837 FC3-2.3991 BSP 9062 SGB 2690.5 R23 -.0201 R13 -.9569 LSA 2214.0 MSA 148.8 SSA 11.9
 BDE .9905 BRA 1.5617 BC3 .3367 FSP -1474 SG1 2683.3 SG2 196.2 THA 3.24 EL1 1461.6 EL2 101.8 ALF 8.51

LAUNCH DATE DEC 10 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 361.731

RL 147.31 LAL -0.00 LOL 78.00 VL 27.380 GAL 5.16 AZL 86.80 HCA 153.24 SMA 126.14 ECC .18988 INC 3.2039 V1 30.244
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.389 GAP -7.37 AZP 92.86 TAL 156.87 TAP 310.11 RCA 102.18 APO 150.09 V2 34.980
 RC 51.091 GL 20.72 GP 1.44 ZAL 51.69 ZAP 22.69 ETS 358.84 ZAE 161.46 ETE 347.06 ZAC 121.62 ETC 164.57 CLP -22.65

PLANETOCENTRIC CONIC

C3 18.554 VHL 4.307 DLA 30.53 RAL 19.11 RAD 6567.8 VEL 11.829 PTH 2.10 VHP 5.454 DPA 9.97 RAP 26.95 ECC 1.3053
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.09 23 43 47 3826.14 -21.55 155.38 247.08 67.84 24 47 33 3226.1 -24.37 147.67
 101.91 2 58 45 3211.18 -21.54 110.06 247.07 67.83 3 52 16 2611.2 -24.36 102.34
 78.09 23 43 47 3826.14 -21.55 155.38 247.08 67.84 24 47 33 3226.1 -24.37 147.67
 101.91 2 58 45 3211.18 -21.54 110.06 247.07 67.83 3 52 16 2611.2 -24.36 102.34
 110.00 5 51 29 2670.97 -32.22 72.70 250.75 77.90 6 36 0 2071.0 -33.55 63.72
 110.00 1 54 9 3414.34 -11.62 120.08 241.74 57.62 2 51 4 2814.3 -15.81 113.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9602 TRA-1.5071 TC3 .3932 BAU .0980 SGT 2676.2 SGR 241.0 SG3 549.7 ST 1455.6 SR 230.0 SS 1762.7
 RDE -.1722 RRA -.0438 RC3 -.0373 FAU .05961 RRT .6806 RRF -.6764 RTF -.9595 CRT .9163 CRS .9536 CST .9942
 FDE 2.5972 FRA 3.0926 FC3-2.7812 BSP 9247 SGB 2687.1 R23 -.0279 R13 -.9596 LSA 2293.1 MSA 143.6 SSA 10.8
 BDE .9755 BRA 1.5077 BC3 .3950 FSP -1663 SG1 2681.3 SG2 176.2 THA 3.52 EL1 1470.9 EL2 91.2 ALF 8.27

LAUNCH DATE DEC 10 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 368.387

RL 147.31 LAL -0.00 LOL 78.00 VL 27.440 GAL 4.99 AZL 86.83 MCA 156.43 SMA 126.53 ECC .18532 INC 3.1743 V1 30.244
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.420 GAP -6.81 AZP 92.91 TAL 156.99 TAP 313.43 RCA 103.08 APO 149.98 V2 34.967
 RC 52.697 GL 21.08 GP 1.72 ZAL 51.97 ZAP 25.19 ETS 358.66 ZAE 160.94 ETE 349.73 ZAC 122.22 ETC 164.28 CLP -25.13

PLANETOCENTRIC CONIC

C3 17.715 VHL 4.209 DLA 30.78 RAL 18.75 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 5.157 DPA 10.50 RAP 27.50 ECC 1.2915
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.40 23 37 18 3831.36 -22.00 155.97 246.06 67.91 24 41 10 3231.4 -24.80 148.22
 102.60 3 2 22 3184.35 -21.99 108.25 246.05 67.90 3 55 27 2584.4 -24.79 100.50
 77.40 23 37 18 3831.36 -22.00 155.97 246.06 67.91 24 41 10 3231.4 -24.80 148.22
 102.60 3 2 22 3184.35 -21.99 108.25 246.05 67.90 3 55 27 2584.4 -24.79 100.50
 110.00 5 45 55 2673.80 -32.18 72.91 249.58 77.79 6 30 29 2073.8 -33.52 63.93
 110.00 1 56 52 3389.91 -12.50 118.74 240.98 57.92 2 53 22 2789.9 -16.65 112.09

DIFFERENTIAL CORRECTIONS

TDE -1.1508 TRA -1.6596 TC3 -.0281 BAU .0125
 RDE -.1741 RRA -.0674 RC3 -.0449 FAU .05241
 FDE 3.1559 FRA 3.6468 FC3 -2.5613 BSP 4319
 BOE 1.1639 BRA 1.6610 BC3 .0530 FSP -1272

MID-COURSE EXECUTION ACCURACY

SGT 3061.0 SGR 262.6 SG3 649.4
 RRT .8121 RRF -.7869 RTF -.9507
 SGB 3072.2 R23 -.0221 R13 -.9508
 SGI 3068.4 SG2 152.9 THA 4.00

ORBIT DETERMINATION ACCURACY

ST 1754.0 SR 239.1 SS 2064.5
 CRT .9453 CRS .9689 CST .9965
 LSA 2716.4 MSA 130.3 SSA 12.3
 EL1 1768.5 EL2 77.3 ALF 7.36

LAUNCH DATE DEC 10 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 374.986

RL 147.31 LAL -0.00 LOL 78.00 VL 27.494 GAL 4.82 AZL 86.86 MCA 159.63 SMA 126.89 ECC .18109 INC 3.1362 V1 30.244
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.448 GAP -6.25 AZP 92.94 TAL 157.16 TAP 316.79 RCA 103.91 APO 149.86 V2 34.954
 RC 54.398 GL 21.37 GP 2.09 ZAL 52.27 ZAP 27.88 ETS 358.37 ZAE 160.74 ETE 352.32 ZAC 122.59 ETC 163.96 CLP -27.81

PLANETOCENTRIC CONIC

C3 16.924 VHL 4.114 DLA 30.95 RAL 18.37 RAD 6567.7 VEL 11.760 PTH 2.08 VHP 4.871 DPA 11.05 RAP 27.84 ECC 1.2785
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.95 23 32 32 3631.12 -22.39 156.12 245.01 68.05 24 36 23 3231.1 -25.17 148.34
 103.05 3 4 8 3163.47 -22.38 106.85 245.01 68.03 3 56 52 2563.5 -25.16 99.07
 76.95 23 32 32 3631.12 -22.39 156.12 245.01 68.05 24 36 23 3231.1 -25.17 148.34
 103.05 3 4 8 3163.47 -22.38 106.85 245.01 68.03 3 56 52 2563.5 -25.16 99.07
 110.00 5 41 31 2672.73 -32.19 72.83 248.40 77.83 6 26 4 2072.7 -33.53 63.85
 110.00 1 58 15 3369.85 -13.22 117.63 240.14 58.19 2 54 25 2769.9 -17.34 110.94

DIFFERENTIAL CORRECTIONS

TDE -.9512 TRA -1.4247 TC3 .4171 BAU .0944
 RDE -.1582 RRA -.0718 RC3 -.0016 FAU .07046
 FDE 3.1759 FRA 3.6556 FC3 -3.6044 BSP 8617
 BOE .9643 BRA 1.4265 BC3 .4171 FSP -2005

MID-COURSE EXECUTION ACCURACY

SGT 2688.1 SGR 249.3 SG3 689.1
 RRT .8376 RRF -.8364 RTF -.9615
 SGB 2699.6 R23 -.0531 R13 -.9617
 SGI 2696.2 SG2 135.8 THA 4.45

ORBIT DETERMINATION ACCURACY

ST 1495.6 SR 223.1 SS 2007.0
 CRT .9476 CRS .9746 CST .9950
 LSA 2509.4 MSA 133.1 SSA 8.9
 EL1 1510.5 EL2 70.6 ALF 8.06

LAUNCH DATE DEC 10 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 381.580

RL 147.31 LAL -0.00 LOL 78.00 VL 27.542 GAL 4.67 AZL 86.92 MCA 162.82 SMA 127.21 ECC .17730 INC 3.0845 V1 30.244
 RP 108.45 LAP .91 LOP 240.85 VP 37.472 GAP -5.71 AZP 92.95 TAL 157.31 TAP 320.13 RCA 104.66 APO 149.77 V2 34.942
 RC 56.186 GL 21.53 GP 2.62 ZAL 52.51 ZAP 30.76 ETS 357.94 ZAE 160.84 ETE 355.11 ZAC 122.75 ETC 163.57 CLP -30.66

PLANETOCENTRIC CONIC

C3 16.208 VHL 4.026 DLA 31.02 RAL 18.09 RAD 6567.6 VEL 11.730 PTH 2.07 VHP 4.601 DPA 11.66 RAP 27.95 ECC 1.2667
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.78 23 30 13 3824.93 -22.68 155.78 244.07 68.26 24 33 58 3224.9 -25.43 147.97
 103.22 3 4 10 3149.85 -22.67 105.95 244.06 68.24 3 56 40 2549.8 -25.42 98.14
 76.78 23 30 13 3824.93 -22.68 155.78 244.07 68.26 24 33 58 3224.9 -25.43 147.97
 103.22 3 4 10 3149.85 -22.67 105.95 244.06 68.24 3 56 40 2549.8 -25.42 98.14
 110.00 5 39 17 2666.42 -32.28 72.36 247.34 78.10 6 23 44 2066.4 -33.58 63.37
 110.00 1 58 13 3356.36 -13.71 116.89 239.33 58.38 2 54 9 2756.4 -17.79 110.16

DIFFERENTIAL CORRECTIONS

TDE -.9131 TRA -1.3561 TC3 .4662 BAU .1012
 RDE -.1553 RRA -.0894 RC3 .0277 FAU .07841
 FDE 3.4712 FRA 3.9589 FC3 -4.1884 BSP 8722
 BOE .9262 BRA 1.3590 BC3 .4670 FSP -2277

MID-COURSE EXECUTION ACCURACY

SGT 2627.0 SGR 267.2 SG3 767.9
 RRT .8974 RRF -.9024 RTF -.9632
 SGB 2640.5 R23 -.0822 R13 -.9636
 SGI 2637.9 SG2 117.4 THA 5.23

ORBIT DETERMINATION ACCURACY

ST 1464.7 SR 225.5 SS 2115.1
 CRT .9609 CRS .9835 CST .9950
 LSA 2579.3 MSA 129.5 SSA 7.5
 EL1 1480.6 EL2 61.8 ALF 8.43

LAUNCH DATE DEC 10 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 388.155

RL 147.31 LAL -0.00 LOL 78.00 VL 27.586 GAL 4.54 AZL 86.99 MCA 166.01 SMA 127.51 ECC .17389 INC 3.0104 V1 30.244
 RP 108.49 LAP .73 LOP 244.03 VP 37.492 GAP -5.19 AZP 92.92 TAL 157.46 TAP 323.46 RCA 105.33 APO 149.68 V2 34.929
 RC 58.051 GL 21.49 GP 3.39 ZAL 52.68 ZAP 33.86 ETS 357.29 ZAE 161.26 ETE 358.54 ZAC 122.62 ETC 163.07 CLP -33.71

PLANETOCENTRIC CONIC

C3 15.535 VHL 3.941 DLA 30.92 RAL 17.91 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 4.348 DPA 12.43 RAP 27.77 ECC 1.2557
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.05 23 31 23 3809.35 -22.85 154.68 243.20 68.59 24 34 52 3209.3 -25.56 146.84
 102.95 3 1 34 3146.20 -22.84 105.75 243.19 68.58 3 54 0 2546.2 -25.55 97.91
 77.05 23 31 23 3809.35 -22.85 154.68 243.20 68.59 24 34 52 3209.3 -25.56 146.84
 102.95 3 1 34 3146.20 -22.84 105.75 243.19 68.58 3 54 0 2546.2 -25.55 97.91
 110.00 5 40 19 2651.08 -32.49 71.21 246.38 78.74 6 24 30 2051.1 -33.70 62.18
 110.00 1 55 44 3352.46 -13.85 116.67 238.48 58.43 2 51 37 2752.5 -17.92 109.93

DIFFERENTIAL CORRECTIONS

TDE -.8725 TRA -1.2915 TC3 .4818 BAU .1010
 RDE -.1593 RRA -.1143 RC3 .0666 FAU .08658
 FDE 3.7958 FRA 4.3202 FC3 -4.8251 BSP 8541
 BOE .8870 BRA 1.2966 BC3 .4863 FSP -2550

MID-COURSE EXECUTION ACCURACY

SGT 2557.7 SGR 306.4 SG3 857.5
 RRT .9411 RRF -.9521 RTF -.9637
 SGB 2576.0 R23 -.1292 R13 -.9643
 SGI 2573.9 SG2 103.0 THA 6.44

ORBIT DETERMINATION ACCURACY

ST 1428.3 SR 238.7 SS 2231.4
 CRT .9733 CRS .9911 CST .9951
 LSA 2657.1 MSA 125.4 SSA 6.2
 EL1 1447.1 EL2 54.1 ALF 9.25

LAUNCH DATE DEC 10 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 394.708

RL 147.31 LAL -.00 LOL 78.00 VL 27.625 GAL 4.42 AZL 87.11 MCA 169.19 SMA 127.77 ECC .17084 INC 2.8935 V1 30.244
 RP 108.53 LAP .54 LOP 247.21 VP 37.510 GAP -4.68 AZP 92.84 TAL 157.59 TAP 326.79 RCA 105.94 APO 149.60 V2 34.917
 RC 59.985 GL 21.13 GP 4.63 ZAL 52.72 ZAP 37.24 ETS 356.24 ZAE 161.96 ETE 3.51 ZAC 122.12 ETC 162.36 CLP -36.99

PLANETOCENTRIC CONIC

C3 14.871 VHL 3.856 DLA 30.52 RAL 17.91 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 4.113 DPA 13.53 RAP 27.18 ECC 1.2447
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.11 23 39 8 3775.04 -22.81 152.10 242.41 69.16 24 42 3 3175.0 -25.44 144.23
 101.89 2 53 49 3160.90 -22.80 106.83 242.40 69.14 3 46 30 2560.9 -25.43 98.97
 78.11 23 39 8 3775.04 -22.81 152.10 242.41 69.16 24 42 3 3175.0 -25.44 144.23
 101.89 2 53 49 3160.90 -22.80 106.83 242.40 69.14 3 46 30 2560.9 -25.43 98.97
 110.00 5 46 48 2619.95 -32.88 68.86 245.53 80.08 6 30 28 2020.0 -33.90 59.78
 110.00 1 49 16 3363.98 -13.44 117.31 237.54 58.27 2 45 20 2764.0 -17.53 110.60

DIFFERENTIAL CORRECTIONS

TOE -.8142 TRA-1.2181 TC3 .4934 BAU .1013
 RDE -.1741 RRA -.1526 RC3 .1265 FAU .09593
 FDE 4.1037 FRA 4.7241 FC3-5.5845 BSP .8366
 BOE .8326 BRA 1.2276 BC3 .5094 FSP -2864

MID-COURSE EXECUTION ACCURACY

SGT 2454.0 SGR 381.7 SG3 954.8
 RRT .9641 RRF -.9820 RTF -.9637
 SGB 2483.5 R23 -.1933 R13 -.9649
 SG1 2481.5 SG2 100.3 TMA 8.54

ORBIT DETERMINATION ACCURACY

ST 1364.1 SR 270.4 SS 2334.7
 CRT .9831 CRS .9964 CST .9950
 LSA 2714.8 MSA 120.9 SSA 4.8
 EL1 1389.8 EL2 48.5 ALF 11.04

LAUNCH DATE DEC 10 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 401.240

RL 147.31 LAL -.00 LOL 78.00 VL 27.660 GAL 4.32 AZL 87.32 MCA 172.38 SMA 128.01 ECC .16814 INC 2.6797 V1 30.244
 RP 108.57 LAP .36 LOP 250.39 VP 37.525 GAP -4.18 AZP 92.66 TAL 157.72 TAP 330.10 RCA 106.49 APO 149.53 V2 34.906
 RC 61.981 GL 20.06 GP 6.91 ZAL 52.53 ZAP 41.00 ETS 354.33 ZAE 162.73 ETE 12.30 ZAC 121.00 ETC 161.14 CLP -40.51

PLANETOCENTRIC CONIC

C3 14.145 VHL 3.761 DLA 29.49 RAL 18.28 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 3.903 DPA 15.50 RAP 25.94 ECC 1.2328
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.41 0 9 34 3684.14 -22.33 145.14 241.71 70.23 1 10 58 3084.1 -24.82 137.26
 98.59 2 30 18 3229.60 -22.32 111.75 241.71 70.21 3 24 8 2629.6 -24.81 103.87
 100.00 3 22 35 3062.24 -25.43 100.45 242.82 73.74 4 13 38 2462.2 -27.42 92.21
 100.00 1 59 58 3326.73 -19.29 117.67 240.43 66.71 2 55 24 2726.7 -22.27 110.15
 110.00 6 3 41 2557.48 -33.51 64.10 244.74 82.83 6 46 18 1957.5 -34.14 54.91
 110.00 1 35 22 3404.25 -11.98 119.52 236.44 57.74 2 32 6 2804.3 -16.16 112.90

DIFFERENTIAL CORRECTIONS

TOE -.7388 TRA-1.1436 TC3 .4768 BAU .1002
 RDE -.2122 RRA -.2240 RC3 .2311 FAU .10504
 FDE 4.3452 FRA 5.2049 FC3-6.4289 BSP .8032
 BOE .7687 BRA 1.1653 BC3 .5298 FSP -3162

MID-COURSE EXECUTION ACCURACY

SGT 2324.0 SGR 537.0 SG3 1058.8
 RRT .9701 RRF -.9955 RTF -.9626
 SGB 2385.2 R23 -.2425 R13 -.9656
 SG1 2381.8 SG2 127.1 TMA 12.67

ORBIT DETERMINATION ACCURACY

ST 1275.7 SR 344.0 SS 2415.2
 CRT .9900 CRS .9991 CST .9951
 LSA 2750.6 MSA 113.9 SSA 3.4
 EL1 1320.4 EL2 46.8 ALF 14.97

LAUNCH DATE DEC 10 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 407.749

RL 147.31 LAL -.00 LOL 78.00 VL 27.691 GAL 4.23 AZL 87.83 MCA 175.56 SMA 128.22 ECC .16577 INC 2.1660 V1 30.244
 RP 108.60 LAP .17 LOP 253.57 VP 37.537 GAP -3.70 AZP 92.16 TAL 157.83 TAP 333.38 RCA 106.97 APO 149.48 V2 34.894
 RC 64.032 GL 16.72 GP 12.40 ZAL 51.71 ZAP 45.61 ETS 349.92 ZAE 162.04 ETE 31.47 ZAC 118.38 ETC 158.47 CLP -44.26

PLANETOCENTRIC CONIC

C3 13.146 VHL 3.626 DLA 26.41 RAL 19.73 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 3.750 DPA 20.29 RAP 23.08 ECC 1.2164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 56 47 3142.23 -26.80 106.66 242.90 80.51 3 49 9 2542.2 -27.84 98.15
 90.00 23 50 44 3739.53 -14.25 145.71 238.78 65.27 24 53 4 3139.5 -17.47 138.51
 100.00 4 47 42 2784.66 -29.22 80.74 243.28 83.41 5 34 7 2184.7 -29.83 71.99
 100.00 0 46 27 3572.33 -12.06 132.32 237.68 62.44 1 45 59 2972.3 -15.66 125.38
 110.00 6 46 53 2411.73 -34.18 52.78 243.64 89.49 7 27 5 1811.7 -33.87 43.55
 110.00 1 3 45 3518.02 -7.78 125.65 235.12 56.61 2 2 23 2918.0 -12.12 119.25

DIFFERENTIAL CORRECTIONS

TDE -.6203 TRA-1.0629 TC3 .4620 BAU .1188
 RDE -.3038 RRA -.3994 RC3 .4935 FAU .11431
 FDE 4.1767 FRA 5.6971 FC3-7.5275 BSP .7958
 BOE .6907 BRA 1.1355 BC3 .6760 FSP -3476

MID-COURSE EXECUTION ACCURACY

SGT 2142.5 SGR 924.8 SG3 1141.0
 RRT .9651 RRF -.9995 RTF -.9596
 SGB 2333.5 R23 -.2412 R13 -.9701
 SG1 2322.8 SG2 223.4 TMA 22.84

ORBIT DETERMINATION ACCURACY

ST 1130.2 SR 524.7 SS 2351.8
 CRT .9943 CRS .9999 CST .9956
 LSA 2659.8 MSA 96.5 SSA 2.1
 EL1 1245.1 EL2 50.8 ALF 24.82

LAUNCH DATE DEC 10 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 414.235

RL 147.31 LAL -.00 LOL 78.00 VL 27.718 GAL 4.15 AZL 90.93 MCA 178.74 SMA 128.41 ECC .16371 INC .9609 V1 30.244
 RP 108.64 LAP -.02 LOP 256.74 VP 37.546 GAP -3.23 AZP 89.07 TAL 157.91 TAP 336.65 RCA 107.38 APO 149.43 V2 34.883
 RC 66.131 GL -7.52 GP 39.77 ZAL 50.05 ZAP 58.55 ETS 332.32 ZAE 140.79 ETE 68.92 ZAC 105.10 ETC 149.16 CLP -47.25

PLANETOCENTRIC CONIC

C3 11.868 VHL 3.445 DLA 3.86 RAL 29.04 RAD 6567.5 VEL 11.544 PTH 2.01 VHP 4.424 DPA 44.62 RAP 7.95 ECC 1.1953
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 33 11 2216.92 -19.63 41.63 243.28 110.83 8 10 8 1616.9 -16.62 34.25
 90.00 20 28 36 4621.24 13.19 195.94 242.02 64.72 21 45 38 4021.2 9.68 189.02
 100.00 8 56 20 1948.72 -20.51 21.53 242.91 112.23 9 28 48 1348.7 -17.32 14.19
 100.00 21 48 8 4364.67 14.05 176.64 241.59 63.34 23 0 53 3764.7 10.36 169.79
 110.00 10 8 43 1722.15 -22.88 3.19 241.76 116.11 10 37 25 1122.2 -19.19 356.00
 110.00 22 52 14 4164.00 16.33 160.12 240.31 59.55 24 1 38 3564.0 12.17 153.49

DIFFERENTIAL CORRECTIONS

TDE -.3648 TRA-1.0507 TC3 .4663 BAU .2974
 RDE -.3696 RRA -1.3905 RC3 1.8153 FAU .08845
 FDE 1.3060 FRA 4.8982 FC3-6.4523 BSP .11426
 BOE .5194 BRA 1.7428 BC3 1.8742 FSP -2763

MID-COURSE EXECUTION ACCURACY

SGT 1881.2 SGR 2704.6 SG3 824.9
 RRT .9502 RRF -1.0000 RTF -.9491
 SGB 3294.5 R23 -.1048 R13 -.9945
 SG1 3258.3 SG2 486.7 TMA 55.67

ORBIT DETERMINATION ACCURACY

ST 802.7 SR 928.9 SS 1252.3
 CRT .9907 CRS 1.0000 CST .9909
 LSA 1751.1 MSA 96.4 SSA .5
 EL1 1224.9 EL2 82.6 ALF 49.21

LAUNCH DATE DEC 10 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 27.741 GAL 4.09 AZL 83.76 MCA 181.92 SMA 128.57 ECC .16194 INC 6.2336 V1 30.244
 RP 108.67 LAP -.21 LOP 259.91 VP 37.554 GAP -2.77 AZP 96.23 TAL 157.98 TAP 339.90 RCA 107.75 APO 149.39 V2 34.873
 RC 68.274 GL 40.65 GP -29.63 ZAL 61.76 ZAP 57.96 ETS 23.50 ZAE 145.77 ETE 294.19 ZAC 124.73 ETC 185.53 CLP -52.38

PLANETOCENTRIC CONIC

C3 21.288 VML 4.614 DLA 47.12 RAL 4.41 RAD 6567.9 VEL 11.944 PTH 2.13 VMP 3.765 DPA -19.01 RAP 38.38 ECC 1.3503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.62 20 21 29 4280.64 -30.65 198.16 241.04 52.28 21 32 50 3680.6 -35.32 190.82
 129.38 4 23 48 2822.03 -30.64 84.32 241.02 52.27 5 10 50 2222.0 -35.31 76.98
 50.62 20 21 29 4280.64 -30.65 198.16 241.04 52.28 21 32 50 3680.6 -35.32 190.82
 129.38 4 23 48 2822.03 -30.64 84.32 241.02 52.27 5 10 50 2222.0 -35.31 76.98
 50.62 20 21 29 4280.64 -30.65 198.16 241.04 52.28 21 32 50 3680.6 -35.32 190.82
 129.38 4 23 48 2822.03 -30.64 84.32 241.02 52.27 5 10 50 2222.0 -35.31 76.98

DIFFERENTIAL CORRECTIONS

TOE -.9388 TRA -.7757 TC3 .1425 BAU .1902 SGT 1838.6 SGR 2140.4 SG3 1150.7 ST 1240.8 SR 1763.0 SS 3506.0
 RDE 1.3943 RRA .6054 RC3 -.6528 FAU .69793 RRT -.9305 RRF .9995 RTF -.9409 CRT -.9872 CRS -.9999 CST .9893
 FDE 8.5011 FRA 3.9676 FC3 -3.9825 BSP 8702 SGB 2821.7 R23 -.1277 R13 .9917 LSA 4112.0 MSA 177.5 SSA 1.1
 BOE 1.6809 BRA .9840 BC3 .6682 FSP -3327 SGI 2773.4 SG2 519.8 THA 130.34 EL1 2149.7 EL2 162.5 ALF 125.02

LAUNCH DATE DEC 10 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 27.761 GAL 4.04 AZL 85.54 MCA 185.10 SMA 128.71 ECC .16047 INC 4.4613 V1 30.244
 RP 108.70 LAP -.40 LOP 263.09 VP 37.559 GAP -2.32 AZP 94.44 TAL 158.01 TAP 343.10 RCA 108.05 APO 149.36 V2 34.862
 RC 70.456 GL 32.30 GP -12.56 ZAL 57.59 ZAP 58.38 ETS 10.11 ZAE 162.71 ETE 303.44 ZAC 121.95 ETC 173.15 CLP -57.51

PLANETOCENTRIC CONIC

C3 16.254 VML 4.032 DLA 40.15 RAL 10.84 RAD 6567.7 VEL 11.732 PTH 2.07 VMP 3.231 DPA -4.09 RAP 29.69 ECC 1.2675
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.25 21 25 43 4114.19 -28.83 181.85 240.13 60.75 22 34 17 3514.2 -32.48 173.99
 119.75 4 10 52 2861.87 -28.82 86.49 240.13 60.74 4 58 34 2261.9 -32.48 78.64
 60.25 21 25 43 4114.19 -28.83 181.85 240.13 60.75 22 34 17 3514.2 -32.48 173.99
 119.75 4 10 52 2861.87 -28.82 86.49 240.13 60.74 4 58 34 2261.9 -32.48 78.64
 60.25 21 25 43 4114.19 -28.83 181.85 240.13 60.75 22 34 17 3514.2 -32.48 173.99
 119.75 4 10 52 2861.87 -28.82 86.49 240.13 60.74 4 58 34 2261.9 -32.48 78.64

DIFFERENTIAL CORRECTIONS

TOE -.5351 TRA -.6734 TC3 .0985 BAU .0916 SGT 1467.1 SGR 969.1 SG3 1532.3 ST 848.2 SR 729.9 SS 3546.3
 RDE .4992 RRA .3074 RC3 -.4099 FAU .14186 RRT -.9013 RRF .9980 RTF -.9199 CRT -.9755 CRS -.9995 CST .9822
 FDE 8.6138 FRA 6.0744 FC3 -7.5557 BSP 6061 SGB 1758.2 R23 -.2666 R13 .9629 LSA 3715.3 MSA 158.2 SSA 2.0
 BOE .7318 BRA .7402 BC3 .4215 FSP -4644 SGI 1721.4 SG2 357.8 THA 147.67 EL1 1112.3 EL2 122.5 ALF 139.39

LAUNCH DATE DEC 10 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 27.778 GAL 4.00 AZL 85.95 MCA 188.27 SMA 128.82 ECC .15928 INC 4.0482 V1 30.244
 RP 108.73 LAP -.58 LOP 266.25 VP 37.563 GAP -1.87 AZP 94.01 TAL 158.01 TAP 346.28 RCA 108.30 APO 149.34 V2 34.853
 RC 72.672 GL 30.12 GP -8.15 ZAL 56.62 ZAP 62.85 ETS 6.31 ZAE 168.29 ETE 301.94 ZAC 119.34 ETC 170.31 CLP -62.55

PLANETOCENTRIC CONIC

C3 15.200 VML 3.899 DLA 38.27 RAL 12.27 RAD 6567.6 VEL 11.687 PTH 2.06 VMP 3.060 DPA -.77 RAP 26.25 ECC 1.2502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.11 21 44 56 4060.40 -28.07 176.88 239.76 62.84 22 52 36 3460.4 -31.46 168.95
 116.89 4 3 1 2885.33 -28.05 87.99 239.75 62.83 4 51 7 2285.3 -31.45 80.06
 63.11 21 44 56 4060.40 -28.07 176.88 239.76 62.84 22 52 36 3460.4 -31.46 168.95
 116.89 4 3 1 2885.33 -28.05 87.99 239.75 62.83 4 51 7 2285.3 -31.45 80.06
 63.11 21 44 56 4060.40 -28.07 176.88 239.76 62.84 22 52 36 3460.4 -31.46 168.95
 116.89 4 3 1 2885.33 -28.05 87.99 239.75 62.83 4 51 7 2285.3 -31.45 80.06

DIFFERENTIAL CORRECTIONS

TOE -.3372 TRA -.5425 TC3 -.0413 BAU .0583 SGT 1130.5 SGR 664.2 SG3 1700.2 ST 581.8 SR 507.8 SS 3598.6
 RDE .3365 RRA .2053 RC3 -.2838 FAU .15825 RRT -.8367 RRF .9932 RTF -.8716 CRT -.9485 CRS -.9982 CST .9658
 FDE 8.8766 FRA 6.9174 FC3 -9.0130 BSP 4654 SGB 1311.1 R23 -.3598 R13 .9287 LSA 3677.3 MSA 152.7 SSA 3.1
 BOE .4764 BRA .5801 BC3 .2868 FSP -5178 SGI 1270.6 SG2 323.6 THA 151.83 EL1 762.4 EL2 122.8 ALF 139.09

LAUNCH DATE DEC 10 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

RL 147.31 LAL -.00 LOL 78.00 VL 27.792 GAL 3.98 AZL 86.14 MCA 191.44 SMA 128.92 ECC .15834 INC 3.8639 V1 30.244
 RP 108.76 LAP -.77 LOP 269.42 VP 37.565 GAP -1.44 AZP 93.79 TAL 157.98 TAP 349.42 RCA 108.51 APO 149.33 V2 34.844
 RC 74.919 GL 29.15 GP -6.14 ZAL 56.17 ZAP 67.97 ETS 4.48 ZAE 171.76 ETE 289.00 ZAC 116.87 ETC 169.12 CLP -67.84

PLANETOCENTRIC CONIC

C3 14.714 VML 3.836 DLA 37.43 RAL 12.91 RAD 6567.6 VEL 11.666 PTH 2.05 VMP 2.941 DPA .24 RAP 23.53 ECC 1.2422
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.42 21 54 7 4033.93 -27.72 174.51 239.58 63.77 23 1 21 3433.9 -31.00 166.56
 115.58 3 59 0 2897.26 -27.71 88.77 239.58 63.75 4 47 17 2297.3 -30.99 80.82
 64.42 21 54 7 4033.93 -27.72 174.51 239.58 63.77 23 1 21 3433.9 -31.00 166.56
 115.58 3 59 0 2897.26 -27.71 88.77 239.58 63.75 4 47 17 2297.3 -30.99 80.82
 64.42 21 54 7 4033.93 -27.72 174.51 239.58 63.77 23 1 21 3433.9 -31.00 166.56
 115.58 3 59 0 2897.26 -27.71 88.77 239.58 63.75 4 47 17 2297.3 -30.99 80.82

DIFFERENTIAL CORRECTIONS

TOE -.1489 TRA -.3922 TC3 -.2150 BAU .0600 SGT 788.0 SGR 532.4 SG3 1827.5 ST 313.8 SR 422.4 SS 3653.0
 RDE .2766 RRA .1552 RC3 -.2161 FAU .17178 RRT -.6673 RRF .9835 RTF -.7303 CRT -.8394 CRS -.9960 CST .8845
 FDE 9.1980 FRA 7.4897 FC3 -10.1074 BSP 3410 SGB 990.9 R23 -.4884 R13 .8594 LSA 3687.6 MSA 151.0 SSA 4.1
 BOE .3142 BRA .4217 BC3 .3048 FSP -5666 SGI 882.6 SG2 354.0 THA 150.54 EL1 506.7 EL2 142.2 ALF 125.12

LAUNCH DATE DEC 10 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 446.355

RL 147.31 LAL -.00 LOL 78.00 VL 27.803 GAL 3.97 AZL 86.24 HCA 194.61 SMA 129.00 ECC .15766 INC 3.7585 V1 30.244
 RP 108.78 LAP -.95 LOP 272.59 VP 37.565 GAP -1.02 AZP 93.64 TAL 157.91 TAP 352.52 RCA 108.66 APO 149.33 V2 34.835
 RC 77.194 GL 28.59 GP -4.97 ZAL 55.87 ZAP 73.41 ETS 3.34 ZAE 173.43 ETE 260.61 ZAC 114.34 ETC 168.48 CLP -73.35

PLANETOCENTRIC CONIC

C3 14.438 VHL 3.800 DLA 36.98 RAL 13.34 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 2.853 DPA .37 RAP 20.93 ECC 1.2376
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.16 21 59 38 4018.57 -27.53 173.16 239.55 64.27 23 6 36 3418.6 -30.75 165.19
 114.84 3 56 54 2904.23 -27.52 89.23 239.54 64.26 4 45 18 2304.2 -30.74 81.26
 65.16 21 59 38 4018.57 -27.53 173.16 239.55 64.27 23 6 36 3418.6 -30.75 165.19
 114.84 3 56 54 2904.23 -27.52 89.23 239.54 64.26 4 45 18 2304.2 -30.74 81.26
 65.16 21 59 38 4018.57 -27.53 173.16 239.55 64.27 23 6 36 3418.6 -30.75 165.19
 114.84 3 56 54 2904.23 -27.52 89.23 239.54 64.26 4 45 18 2304.2 -30.74 81.26

DIFFERENTIAL CORRECTIONS

TDE .0456 TRA -.2286 TC3 -.4228 BAU .0879
 RDE .2497 RRA .1254 RC3 -.1696 FAU .18195
 FDE 9.5018 FRA 7.9516 FC-10.9097 BSP 2140
 BOE .2539 BRA .2608 BC3 .4555 FSP -6048

MID-COURSE EXECUTION ACCURACY

SGT 542.4 SGR 463.1 SG3 1930.5
 RRT -.1369 RRF .9680 RTF -.2334
 SGB 713.2 R23 -.8360 R13 .4982
 SG1 554.3 S62 448.7 THA 159.41

ORBIT DETERMINATION ACCURACY

ST 146.9 SR 383.2 SS 3702.9
 CRT .2969 CRS -.9930 CST -.1830
 LSA 3722.6 MSA 151.1 SSA 5.1
 EL1 386.1 EL2 139.2 ALF 82.53

LAUNCH DATE DEC 10 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 452.714

RL 147.31 LAL -.00 LOL 78.00 VL 27.812 GAL 3.98 AZL 86.31 HCA 197.78 SMA 129.06 ECC .15722 INC 3.6901 V1 30.244
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.564 GAP -.60 AZP 93.51 TAL 157.80 TAP 355.58 RCA 108.77 APO 149.35 V2 34.827
 RC 79.493 GL 28.20 GP -4.19 ZAL 55.60 ZAP 79.05 ETS 2.54 ZAE 172.50 ETE 227.81 ZAC 111.73 ETC 168.08 CLP -79.02

PLANETOCENTRIC CONIC

C3 14.280 VHL 3.779 DLA 36.69 RAL 13.71 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 2.793 DPA .07 RAP 18.33 ECC 1.2350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.63 22 3 35 4008.76 -27.40 172.30 239.63 64.59 23 10 24 3408.8 -30.58 164.32
 114.37 3 55 51 2909.14 -27.39 89.56 239.63 64.57 4 44 20 2309.1 -30.57 81.59
 65.63 22 3 35 4008.76 -27.40 172.30 239.63 64.59 23 10 24 3408.8 -30.58 164.32
 114.37 3 55 51 2909.14 -27.39 89.56 239.63 64.57 4 44 20 2309.1 -30.57 81.59
 65.63 22 3 35 4008.76 -27.40 172.30 239.63 64.59 23 10 24 3408.8 -30.58 164.32
 114.37 3 55 51 2909.14 -27.39 89.56 239.63 64.57 4 44 20 2309.1 -30.57 81.59

DIFFERENTIAL CORRECTIONS

TDE .2484 TRA -.0537 TC3 -.6548 BAU .1276
 RDE .2359 RRA .1044 RC3 -.1337 FAU .18957
 FDE 9.6980 FRA 8.2854 FC-11.4932 BSP 1215
 BOE .3426 BRA .1175 BC3 .6684 FSP -6334

MID-COURSE EXECUTION ACCURACY

SGT 630.2 SGR 420.9 SG3 2002.3
 RRT .6209 RRF .9464 RTF .5646
 SGB 757.8 R23 .6148 R13 .7201
 SG1 696.6 S62 298.5 THA 28.13

ORBIT DETERMINATION ACCURACY

ST 378.2 SR 362.5 SS 3725.6
 CRT .9697 CRS -.9894 CST -.9247
 LSA 3759.2 MSA 152.1 SSA 5.9
 EL1 519.9 EL2 64.4 ALF 43.75

LAUNCH DATE DEC 10 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 459.050

RL 147.31 LAL -.00 LOL 78.00 VL 27.818 GAL 4.00 AZL 86.36 HCA 200.95 SMA 129.10 ECC .15702 INC 3.6420 V1 30.244
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.562 GAP -.19 AZP 93.40 TAL 157.65 TAP 358.60 RCA 108.83 APO 149.37 V2 34.820
 RC 81.813 GL 27.89 GP -3.65 ZAL 55.33 ZAP 84.79 ETS 1.92 ZAE 169.66 ETE 207.85 ZAC 109.09 ETC 167.79 CLP -84.78

PLANETOCENTRIC CONIC

C3 14.202 VHL 3.769 DLA 36.48 RAL 14.07 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 2.758 DPA -.47 RAP 15.74 ECC 1.2337
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.97 22 6 50 4002.26 -27.30 171.72 239.84 64.79 23 13 32 3402.3 -30.45 163.74
 114.03 3 55 32 2913.23 -27.28 89.83 239.83 64.78 4 44 5 2313.2 -30.44 81.85
 65.97 22 6 50 4002.26 -27.30 171.72 239.84 64.79 23 13 32 3402.3 -30.45 163.74
 114.03 3 55 32 2913.23 -27.28 89.83 239.83 64.78 4 44 5 2313.2 -30.44 81.85
 65.97 22 6 50 4002.26 -27.30 171.72 239.84 64.79 23 13 32 3402.3 -30.45 163.74
 114.03 3 55 32 2913.23 -27.28 89.83 239.83 64.78 4 44 5 2313.2 -30.44 81.85

DIFFERENTIAL CORRECTIONS

TDE .4565 TRA .1290 TC3 -.9048 BAU .1729
 RDE .2279 RRA .0878 RC3 -.1032 FAU .19429
 FDE 9.7515 FRA 8.4865 FC-11.8438 BSP 1789
 BOE .5103 BRA .1560 BC3 .9106 FSP -6567

MID-COURSE EXECUTION ACCURACY

SGT 1003.2 SGR 392.0 SG3 2039.2
 RRT .8494 RRF .9182 RTF .8571
 SGB 1077.0 R23 .3049 R13 .8783
 SG1 1059.1 S62 195.9 THA 19.04

ORBIT DETERMINATION ACCURACY

ST 698.3 SR 350.1 SS 3715.6
 CRT .9990 CRS -.9853 CST -.9782
 LSA 3793.7 MSA 153.5 SSA 6.6
 EL1 781.0 EL2 13.7 ALF 26.61

LAUNCH DATE DEC 10 1968

FLIGHT TIME 172.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 465.366

RL 147.31 LAL -.00 LOL 78.00 VL 27.822 GAL 4.03 AZL 86.39 HCA 204.12 SMA 129.13 ECC .15705 INC 3.6058 V1 30.244
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.558 GAP .22 AZP 93.29 TAL 157.47 TAP 1.58 RCA 108.85 APO 149.41 V2 34.813
 RC 84.153 GL 27.61 GP -3.18 ZAL 55.02 ZAP 90.54 ETS 1.42 ZAE 166.05 ETE 197.59 ZAC 106.46 ETC 167.55 CLP -90.54

PLANETOCENTRIC CONIC

C3 14.188 VHL 3.767 DLA 36.33 RAL 14.47 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 2.749 DPA -1.13 RAP 13.20 ECC 1.2335
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.23 22 9 50 3997.85 -27.19 171.31 240.16 64.93 23 16 28 3397.8 -30.33 163.33
 113.77 3 55 42 2917.22 -27.18 90.10 240.16 64.91 4 44 19 2317.2 -30.32 82.12
 66.23 22 9 50 3997.85 -27.19 171.31 240.16 64.93 23 16 28 3397.8 -30.33 163.33
 113.77 3 55 42 2917.22 -27.18 90.10 240.16 64.91 4 44 19 2317.2 -30.32 82.12
 66.23 22 9 50 3997.85 -27.19 171.31 240.16 64.93 23 16 28 3397.8 -30.33 163.33
 113.77 3 55 42 2917.22 -27.18 90.10 240.16 64.91 4 44 19 2317.2 -30.32 82.12

DIFFERENTIAL CORRECTIONS

TDE .6663 TRA .3171 TC3 -1.1626 BAU .2210
 RDE .2229 RRA .0734 RC3 -.0748 FAU .19527
 FDE 9.6586 FRA 8.5634 FC-11.9151 BSP 3217
 BOE .7026 BRA .3255 BC3 1.1650 FSP -6653

MID-COURSE EXECUTION ACCURACY

SGT 1467.2 SGR 370.6 SG3 2040.6
 RRT .8753 RRF .8828 RTF .9359
 SGB 1513.3 R23 .1070 R13 .9390
 SG1 1503.2 S62 175.0 THA 12.64

ORBIT DETERMINATION ACCURACY

ST 1029.6 SR 341.6 SS 3675.5
 CRT .9984 CRS -.9806 CST -.9897
 LSA 3829.1 MSA 155.3 SSA 7.3
 EL1 1084.7 EL2 18.6 ALF 18.33

LAUNCH DATE DEC 10 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 471.660

RL 147.31 LAL -0.00 LOL 78.00 VL 27.824 GAL 4.07 AZL 86.42 HCA 207.28 SMA 129.14 ECC .15729 INC 3.5777 V1 30.244
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.554 GAP .61 AZP 93.18 TAL 157.24 TAP 4.52 RCA 108.83 APO 149.45 V2 34.807
 RC 86.508 GL 27.33 GP -2.82 ZAL 54.67 ZAP 96.21 ETS 1.01 ZAE 162.19 ETE 191.89 ZAC 103.94 ETC 167.35 CLP -96.22

PLANETOCENTRIC CONIC

C3 14.230 VHL 3.772 DLA 36.19 RAL 14.91 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 2.764 DPA -1.84 RAP 10.76 ECC 1.2342
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.46 22 12 49 3994.87 -27.08 171.01 240.60 65.01 23 19 24 3394.9 -30.21 163.03
 113.54 3 56 14 2921.51 -27.07 90.38 240.60 65.00 4 44 56 2321.5 -30.20 82.41
 66.46 22 12 49 3994.87 -27.08 171.01 240.60 65.01 23 19 24 3394.9 -30.21 163.03
 113.54 3 56 14 2921.51 -27.07 90.38 240.60 65.00 4 44 56 2321.5 -30.20 82.41
 66.46 22 12 49 3994.87 -27.08 171.01 240.60 65.01 23 19 24 3394.9 -30.21 163.03
 113.54 3 56 14 2921.51 -27.07 90.38 240.60 65.00 4 44 56 2321.5 -30.20 82.41

DIFFERENTIAL CORRECTIONS

TDE .8725 TRA .5070 TC3-1.4201 BAU .2703
 RDE .2195 RRA .0601 RC3 -.0475 FAU .19241
 FDE 9.4269 FRA 8.5190 FC-11.7055 BSP 4804
 BDE .8997 BRA .5106 BC3 1.4209 FSP -6603

MID-COURSE EXECUTION ACCURACY

SGT 1953.1 SGR 353.9 SG3 2007.8
 RRT .8509 RRF .8394 RTF .9636
 SGB 1984.9 R23 .0232 R13 .9640
 SG1 1976.4 SG2 183.7 THA 8.84

ORBIT DETERMINATION ACCURACY

ST 1356.2 SR 335.1 SS 3608.0
 CRT .9936 CRS -.9752 CST -.9938
 LSA 3865.8 MSA 157.3 SSA 7.9
 EL1 1396.5 EL2 36.7 ALF 13.80

LAUNCH DATE DEC 10 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 477.933

RL 147.31 LAL -0.00 LOL 78.00 VL 27.823 GAL 4.13 AZL 86.44 HCA 210.45 SMA 129.14 ECC .15776 INC 3.5551 V1 30.244
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.549 GAP 1.01 AZP 93.07 TAL 156.97 TAP 7.42 RCA 108.77 APO 149.51 V2 34.802
 RC 88.877 GL 27.04 GP -2.51 ZAL 54.28 ZAP 101.72 ETS .66 ZAE 158.33 ETE 188.41 ZAC 101.59 ETC 167.17 CLP -101.73

PLANETOCENTRIC CONIC

C3 14.324 VHL 3.785 DLA 36.07 RAL 15.41 RAD 6567.6 VEL 11.649 PTH 2.05 VHP 2.802 DPA -2.53 RAP 8.50 ECC 1.2357
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.67 22 15 56 3992.98 -26.95 170.79 241.16 65.07 23 22 29 3393.0 -30.07 162.82
 113.33 3 57 6 2926.30 -26.94 90.70 241.15 65.05 4 45 52 2326.3 -30.06 82.74
 66.67 22 15 56 3992.98 -26.95 170.79 241.16 65.07 23 22 29 3393.0 -30.07 162.82
 113.33 3 57 6 2926.30 -26.94 90.70 241.15 65.05 4 45 52 2326.3 -30.06 82.74
 66.67 22 15 56 3992.98 -26.95 170.79 241.16 65.07 23 22 29 3393.0 -30.07 162.82
 113.33 3 57 6 2926.30 -26.94 90.70 241.15 65.05 4 45 52 2326.3 -30.06 82.74

DIFFERENTIAL CORRECTIONS

TDE 1.0704 TRA .6951 TC3-1.6685 BAU .3195
 RDE .2168 RRA .0473 RC3 -.0218 FAU .18729
 FDE 9.0543 FRA 8.3471 FC-11.3196 BSP 6411
 BDE 1.0922 BRA .6967 BC3 1.6686 FSP -6487

MID-COURSE EXECUTION ACCURACY

SGT 2432.2 SGR 340.4 SG3 1942.9
 RRT .8071 RRF .7873 RTF .9760
 SGB 2455.9 R23 -.0098 R13 .9760
 SG1 2447.8 SG2 199.7 THA 6.49

ORBIT DETERMINATION ACCURACY

ST 1667.3 SR 329.3 SS 3508.4
 CRT .9877 CRS -.9691 CST -.9957
 LSA 3895.1 MSA 159.2 SSA 8.4
 EL1 1698.8 EL2 50.6 ALF 11.05

LAUNCH DATE DEC 10 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 484.185

RL 147.31 LAL -0.00 LOL 78.00 VL 27.821 GAL 4.20 AZL 86.46 HCA 213.61 SMA 129.12 ECC .15843 INC 3.5364 V1 30.244
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.543 GAP 1.40 AZP 92.95 TAL 156.65 TAP 10.27 RCA 108.67 APO 149.58 V2 34.797
 RC 91.256 GL 26.74 GP -2.25 ZAL 53.84 ZAP 107.01 ETS .38 ZAE 154.60 ETE 186.11 ZAC 99.46 ETC 167.01 CLP -107.03

PLANETOCENTRIC CONIC

C3 14.467 VHL 3.804 DLA 35.95 RAL 15.97 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.862 DPA -3.17 RAP 6.45 ECC 1.2381
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.87 22 19 17 3991.80 -26.80 170.62 241.82 65.10 23 25 49 3391.8 -29.92 162.66
 113.13 3 58 11 2931.89 -26.79 91.07 241.82 65.08 4 47 3 2331.9 -29.91 83.12
 66.87 22 19 17 3991.80 -26.80 170.62 241.82 65.10 23 25 49 3391.8 -29.92 162.66
 113.13 3 58 11 2931.89 -26.79 91.07 241.82 65.08 4 47 3 2331.9 -29.91 83.12
 66.87 22 19 17 3991.80 -26.80 170.62 241.82 65.10 23 25 49 3391.8 -29.92 162.66
 113.13 3 58 11 2931.89 -26.79 91.07 241.82 65.08 4 47 3 2331.9 -29.91 83.12

DIFFERENTIAL CORRECTIONS

TDE 1.2571 TRA .8799 TC3-1.9005 BAU .3676
 RDE .2151 RRA .0352 RC3 .0026 FAU .17955
 FDE 8.5885 FRA 8.0903 FC-10.7442 BSP 7978
 BDE 1.2753 BRA .8806 BC3 1.9005 FSP -6275

MID-COURSE EXECUTION ACCURACY

SGT 2890.7 SGR 330.6 SG3 1854.7
 RRT .7513 RRF .7274 RTF .9824
 SGB 2909.5 R23 -.0225 R13 .9823
 SG1 2901.4 SG2 217.4 THA 4.94

ORBIT DETERMINATION ACCURACY

ST 1956.7 SR 324.6 SS 3389.3
 CRT .9811 CRS -.9622 CST -.9966
 LSA 3923.7 MSA 161.2 SSA 8.9
 EL1 1982.5 EL2 61.9 ALF 9.25

LAUNCH DATE DEC 10 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 490.415

RL 147.31 LAL -0.00 LOL 78.00 VL 27.818 GAL 4.29 AZL 86.48 HCA 216.78 SMA 129.10 ECC .15932 INC 3.5205 V1 30.244
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.536 GAP 1.79 AZP 92.82 TAL 156.30 TAP 13.07 RCA 108.53 APO 149.66 V2 34.793
 RC 93.644 GL 26.42 GP -2.02 ZAL 53.35 ZAP 112.03 ETS .14 ZAE 151.06 ETE 184.49 ZAC 97.60 ETC 166.87 CLP -112.05

PLANETOCENTRIC CONIC

C3 14.659 VHL 3.829 DLA 35.82 RAL 16.59 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 2.942 DPA -3.73 RAP 4.66 ECC 1.2413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.08 22 22 54 3991.29 -26.63 170.49 242.60 65.10 23 29 26 3391.3 -29.75 162.55
 112.92 3 59 30 2938.25 -26.62 91.49 242.59 65.09 4 48 28 2338.2 -29.74 83.55
 67.08 22 22 54 3991.29 -26.63 170.49 242.60 65.10 23 29 26 3391.3 -29.75 162.55
 112.92 3 59 30 2938.25 -26.62 91.49 242.59 65.09 4 48 28 2338.2 -29.74 83.55
 67.08 22 22 54 3991.29 -26.63 170.49 242.60 65.10 23 29 26 3391.3 -29.75 162.55
 112.92 3 59 30 2938.25 -26.62 91.49 242.59 65.09 4 48 28 2338.2 -29.74 83.55

DIFFERENTIAL CORRECTIONS

TDE 1.4310 TRA 1.0804 TC3-2.1093 BAU .4134
 RDE .2144 RRA .0237 RC3 .0255 FAU .16979
 FDE 8.0688 FRA 7.7898 FC-10.0270 BSP 9464
 BDE 1.4470 BRA 1.0806 BC3 2.1094 FSP -5991

MID-COURSE EXECUTION ACCURACY

SGT 3320.3 SGR 324.5 SG3 1749.9
 RRT .6880 RRF .6618 RTF .9860
 SGB 3336.1 R23 -.0275 R13 .9859
 SG1 3327.8 SG2 234.9 THA 3.87

ORBIT DETERMINATION ACCURACY

ST 2221.0 SR 321.2 SS 3257.0
 CRT .9741 CRS -.9547 CST -.9972
 LSA 3951.9 MSA 163.0 SSA 9.3
 EL1 2242.9 EL2 71.9 ALF 8.03

LAUNCH DATE DEC 10 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 496.624

RL 147.31 LAL -.00 LOL 78.00 VL 27.812 GAL 4.39 AZL 86.49 MCA 219.94 SMA 129.06 ECC .16042 INC 3.5068 V1 30.244
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.529 GAP 2.17 AZP 92.69 TAL 155.90 TAP 15.84 RCA 108.36 APO 149.76 V2 34.789
 RC 96.036 GL 26.07 GP -1.82 ZAL 52.80 ZAP 116.76 ETS 359.95 ZAE 147.76 ETE 183.32 ZAC 96.04 ETC 166.75 CLP-116.77

PLANETOCENTRIC CONIC

C3 14.901 VHL 3.860 DLA 35.70 RAL 17.26 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 3.040 DPA -4.20 RAP 3.16 ECC 1.2452
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.30 22 26 50 3991.31 -26.44 170.39 243.48 65.09 23 33 21 3391.3 -29.56 162.47
 112.70 4 1 0 2945.51 -26.43 91.97 243.48 65.08 4 50 5 2345.5 -29.55 84.05
 67.30 22 26 50 3991.31 -26.44 170.39 243.48 65.09 23 33 21 3391.3 -29.56 162.47
 112.70 4 1 0 2945.51 -26.43 91.97 243.48 65.08 4 50 5 2345.5 -29.55 84.05
 67.30 22 26 50 3991.31 -26.44 170.39 243.48 65.09 23 33 21 3391.3 -29.56 162.47
 112.70 4 1 0 2945.51 -26.43 91.97 243.48 65.08 4 50 5 2345.5 -29.55 84.05

DIFFERENTIAL CORRECTIONS

TDE 1.5911 TRA 1.2363 TC3-2.2918 BAU .4566
 RDE .2150 RRA .0129 RC3 .0463 FAU .15875
 FDE 7.5111 FRA 7.4141 FC3-9.2234 BSP 10849
 BOE 1.6055 BRA 1.2363 BC3 2.2922 FSP -5657

MID-COURSE EXECUTION ACCURACY

SGT 3716.6 SGR 322.0 SG3 1636.2
 RRT .6213 RRF .5940 RTF .9881
 SGB 3730.5 R23 -.0291 R13 .9880
 SG1 3722.0 SG2 252.0 TMA 3.10

ORBIT DETERMINATION ACCURACY

ST 2457.6 SR 319.3 SS 3117.2
 CRT .9668 CRS -.9466 CST -.9975
 LSA 3978.9 MSA 164.9 SSA 9.7
 EL1 2476.9 EL2 81.0 ALF 7.17

LAUNCH DATE DEC 10 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 502.812

RL 147.31 LAL -.00 LOL 78.00 VL 27.805 GAL 4.50 AZL 86.51 MCA 223.10 SMA 129.01 ECC .16173 INC 3.4948 V1 30.244
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.522 GAP 2.56 AZP 92.55 TAL 155.47 TAP 18.57 RCA 108.15 APO 149.88 V2 34.787
 RC 98.436 GL 25.69 GP -1.65 ZAL 52.21 ZAP 121.17 ETS 359.80 ZAE 144.73 ETE 182.42 ZAC 94.79 ETC 166.66 CLP-121.18

PLANETOCENTRIC CONIC

C3 15.193 VHL 3.898 DLA 35.56 RAL 18.00 RAD 6567.6 VEL 11.687 PTH 2.06 VHP 3.154 DPA -4.55 RAP 1.94 ECC 1.2500
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.53 22 31 4 3991.80 -26.22 170.32 244.47 65.07 23 37 36 3391.8 -29.35 162.41
 112.47 4 2 39 2953.71 -26.21 92.51 244.47 65.06 4 51 53 2353.7 -29.34 84.60
 67.53 22 31 4 3991.80 -26.22 170.32 244.47 65.07 23 37 36 3391.8 -29.35 162.41
 112.47 4 2 39 2953.71 -26.21 92.51 244.47 65.06 4 51 53 2353.7 -29.34 84.60
 67.53 22 31 4 3991.80 -26.22 170.32 244.47 65.07 23 37 36 3391.8 -29.35 162.41
 112.47 4 2 39 2953.71 -26.21 92.51 244.47 65.06 4 51 53 2353.7 -29.34 84.60

DIFFERENTIAL CORRECTIONS

TDE 1.7392 TRA 1.4097 TC3-2.4415 BAU .4961
 RDE .2171 RRA .0030 RC3 .0850 FAU .14659
 FDE 6.9633 FRA 7.0509 FC3-8.3534 BSP 12096
 BOE 1.7527 BRA 1.4097 BC3 2.4424 FSP -5279

MID-COURSE EXECUTION ACCURACY

SGT 4080.1 SGR 323.2 SG3 1520.0
 RRT .5581 RRF .5287 RTF .9894
 SGB 4092.9 R23 -.0287 R13 .9893
 SG1 4084.1 SG2 268.3 TMA 2.53

ORBIT DETERMINATION ACCURACY

ST 2669.0 SR 319.1 SS 2978.0
 CRT .9592 CRS -.9384 CST -.9978
 LSA 4008.2 MSA 166.9 SSA 10.1
 EL1 2686.5 EL2 89.6 ALF 6.55

LAUNCH DATE DEC 10 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 508.977

RL 147.31 LAL -.00 LOL 78.00 VL 27.797 GAL 4.63 AZL 86.52 MCA 226.26 SMA 128.95 ECC .16325 INC 3.4842 V1 30.244
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.514 GAP 2.94 AZP 92.41 TAL 154.99 TAP 21.25 RCA 107.90 APO 150.00 V2 34.785
 RC 100.837 GL 25.29 GP -1.50 ZAL 51.57 ZAP 125.27 ETS 359.68 ZAE 141.97 ETE 181.74 ZAC 93.84 ETC 166.58 CLP-125.28

PLANETOCENTRIC CONIC

C3 15.537 VHL 3.942 DLA 35.42 RAL 18.80 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 3.283 DPA -4.80 RAP 1.02 ECC 1.2557
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.78 22 35 41 3992.54 -25.98 170.25 245.57 65.04 23 42 13 3392.5 -29.12 162.37
 112.22 4 4 24 2963.07 -25.96 93.13 245.56 65.02 4 53 47 2363.1 -29.10 85.24
 67.78 22 35 41 3992.54 -25.98 170.25 245.57 65.04 23 42 13 3392.5 -29.12 162.37
 112.22 4 4 24 2963.07 -25.96 93.13 245.56 65.02 4 53 47 2363.1 -29.10 85.24
 67.78 22 35 41 3992.54 -25.98 170.25 245.57 65.04 23 42 13 3392.5 -29.12 162.37
 112.22 4 4 24 2963.07 -25.96 93.13 245.56 65.02 4 53 47 2363.1 -29.10 85.24

DIFFERENTIAL CORRECTIONS

TDE 1.8723 TRA 1.5778 TC3-2.5663 BAU .5333
 RDE .2205 RRA -.0060 RC3 .0807 FAU .13487
 FDE 6.4181 FRA 6.6747 FC3-7.5151 BSP 13269
 BOE 1.8852 BRA 1.5778 BC3 2.5676 FSP -4916

MID-COURSE EXECUTION ACCURACY

SGT 4406.6 SGR 326.9 SG3 1403.5
 RRT .4952 RRF .4680 RTF .9902
 SGB 4418.7 R23 -.0280 R13 .9901
 SG1 4409.6 SG2 283.9 TMA 2.11

ORBIT DETERMINATION ACCURACY

ST 2850.0 SR 320.5 SS 2834.2
 CRT .9517 CRS -.9300 CST -.9979
 LSA 4028.6 MSA 168.9 SSA 10.5
 EL1 2866.3 EL2 97.8 ALF 6.12

LAUNCH DATE DEC 10 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 515.120

RL 147.31 LAL -.00 LOL 78.00 VL 27.787 GAL 4.77 AZL 86.53 MCA 229.42 SMA 128.89 ECC .16498 INC 3.4746 V1 30.244
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.506 GAP 3.32 AZP 92.26 TAL 154.48 TAP 23.90 RCA 107.62 APO 150.15 V2 34.784
 RC 103.240 GL 24.86 GP -1.36 ZAL 50.88 ZAP 129.07 ETS 359.60 ZAE 139.47 ETE 181.19 ZAC 93.19 ETC 166.53 CLP-129.08

PLANETOCENTRIC CONIC

C3 15.938 VHL 3.992 DLA 35.26 RAL 19.65 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 3.426 DPA -4.94 RAP .38 ECC 1.2623
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.05 22 40 36 3993.72 -25.71 170.20 246.76 64.99 23 47 10 3393.7 -28.85 162.34
 111.95 4 6 16 2973.41 -25.69 93.80 246.75 64.98 4 55 50 2373.4 -28.84 85.95
 68.05 22 40 36 3993.72 -25.71 170.20 246.76 64.99 23 47 10 3393.7 -28.85 162.34
 111.95 4 6 16 2973.41 -25.69 93.80 246.75 64.98 4 55 50 2373.4 -28.84 85.95
 68.05 22 40 36 3993.72 -25.71 170.20 246.76 64.99 23 47 10 3393.7 -28.85 162.34
 111.95 4 6 16 2973.41 -25.69 93.80 246.75 64.98 4 55 50 2373.4 -28.84 85.95

DIFFERENTIAL CORRECTIONS

TDE 1.9933 TRA 1.7436 TC3-2.6628 BAU .5677
 RDE .2254 RRA -.0140 RC3 .0936 FAU .12339
 FDE 5.9008 FRA 6.3101 FC3-6.7027 BSP 14345
 BOE 2.0060 BRA 1.7436 BC3 2.6644 FSP -4559

MID-COURSE EXECUTION ACCURACY

SGT 4700.7 SGR 332.9 SG3 1291.3
 RRT .4416 RRF .4153 RTF .9906
 SGB 4712.4 R23 -.0267 R13 .9906
 SG1 4703.0 SG2 298.6 TMA 1.80

ORBIT DETERMINATION ACCURACY

ST 3005.6 SR 323.6 SS 2693.7
 CRT .9444 CRS -.9219 CST -.9980
 LSA 4045.4 MSA 171.0 SSA 10.9
 EL1 3021.1 EL2 105.8 ALF 5.81

LAUNCH DATE DEC 10 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC
 RL 147.31 LAL -.00 LOL 78.00 VL 27.777 GAL 4.93 AZL 86.53 MCA 232.58 SMA 128.81 ECC .16694 INC 3.4659 V1 30.244
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.497 GAP 3.71 AZP 92.11 TAL 153.92 TAP 26.51 RCA 107.31 APO 150.31 V2 34.783
 RC 105.643 GL 24.40 GP -1.25 ZAL 50.15 ZAP 132.59 ETS 359.54 ZAE 137.22 ETE 180.76 ZAC 92.81 ETC 166.50 CLP-132.60

PLANETOCENTRIC CONIC
 C3 16.397 VHL 4.049 OLA 35.09 RAL 20.55 RAD 6567.7 VEL 11.738 PTH 2.07 VHP 3.581 DPA -4.98 RAP .01 ECC 1.2699
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.35 22 45 53 3995.14 -25.41 170.16 248.04 64.93 23 52 28 3395.1 -28.56 162.33
 111.65 4 8 12 2984.94 -25.39 94.56 248.04 64.92 4 57 57 2384.9 -28.55 86.73
 68.35 22 45 53 3995.14 -25.41 170.16 248.04 64.93 23 52 28 3395.1 -28.56 162.33
 111.65 4 8 12 2984.94 -25.39 94.56 248.04 64.92 4 57 57 2384.9 -28.55 86.73
 68.35 22 45 53 3995.14 -25.41 170.16 248.04 64.93 23 52 28 3395.1 -28.56 162.33
 111.65 4 8 12 2984.94 -25.39 94.56 248.04 64.92 4 57 57 2384.9 -28.55 86.73

DIFFERENTIAL CORRECTIONS
 TDE 2.1035 TRA 1.9086 TC3-2.7313 BAU .5992 SGT 4964.3 SGR 340.5 SG3 1185.4 ST 3137.4 SR 328.2 SS 2557.9
 RDE .2318 RRA -.0210 RC3 .1037 FAU .11235 RRT .3968 RRF .3717 RTF .9908 CRT .9375 CRS -.9141 CST -.9980
 FDE 5.4173 FRA 5.9647 FC3-5.9320 BSP 15319 SGB 4976.0 R23 -.0250 R13 .9908 LSA 4057.5 MSA 173.3 SSA 11.2
 BOE 2.1162 BRA 1.9087 BC3 2.7333 FSP -4215 SGI 4966.2 SG2 312.4 TMA 1.56 EL1 3152.4 EL2 113.7 ALF 5.61

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 10 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 147.31 LAL -.00 LOL 78.00 VL 27.765 GAL 5.11 AZL 86.54 MCA 235.74 SMA 128.73 ECC .16911 INC 3.4579 V1 30.244
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.489 GAP 4.10 AZP 91.95 TAL 153.34 TAP 29.08 RCA 106.96 APO 150.50 V2 34.783
 RC 108.045 GL 23.92 GP -1.14 ZAL 49.38 ZAP 135.85 ETS 359.50 ZAE 135.20 ETE 180.41 ZAC 92.70 ETC 166.49 CLP-135.86

PLANETOCENTRIC CONIC
 C3 16.921 VHL 4.113 OLA 34.91 RAL 21.51 RAD 6567.7 VEL 11.760 PTH 2.08 VHP 3.747 DPA -4.93 RAP 359.87 ECC 1.2785
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.67 22 51 31 3996.80 -25.08 170.12 249.42 64.87 23 58 8 3396.8 -28.24 162.32
 111.33 4 10 9 2997.68 -25.06 95.40 249.42 64.86 5 0 7 2397.7 -28.23 87.59
 68.67 22 51 31 3996.80 -25.08 170.12 249.42 64.87 23 58 8 3396.8 -28.24 162.32
 111.33 4 10 9 2997.68 -25.06 95.40 249.42 64.86 5 0 7 2397.7 -28.23 87.59
 68.67 22 51 31 3996.80 -25.08 170.12 249.42 64.87 23 58 8 3396.8 -28.24 162.32
 111.33 4 10 9 2997.68 -25.06 95.40 249.42 64.86 5 0 7 2397.7 -28.23 87.59

DIFFERENTIAL CORRECTIONS
 TDE 2.2047 TRA 2.0750 TC3-2.7728 BAU .6278 SGT 5201.6 SGR 349.0 SG3 1087.0 ST 3248.5 SR 334.0 SS 2428.7
 RDE .2396 RRA -.0268 RC3 .1111 FAU .10189 RRT .3612 RRF .3377 RTF .9909 CRT .9310 CRS -.9068 CST -.9981
 FDE 4.9733 FRA 5.6438 FC3-5.2133 BSP 16192 SGB 5213.3 R23 -.0232 R13 .9908 LSA 4066.0 MSA 175.8 SSA 11.6
 BOE 2.2177 BRA 2.0752 BC3 2.7750 FSP -3885 SGI 5203.1 SG2 325.4 TMA 1.39 EL1 3263.4 EL2 121.4 ALF 5.48

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 10 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC
 RL 147.31 LAL -.00 LOL 78.00 VL 27.752 GAL 5.30 AZL 86.55 MCA 238.91 SMA 128.64 ECC .17152 INC 3.4504 V1 30.244
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.480 GAP 4.49 AZP 91.78 TAL 152.71 TAP 31.62 RCA 106.57 APO 150.70 V2 34.784
 RC 110.446 GL 23.42 GP -1.05 ZAL 48.57 ZAP 138.87 ETS 359.48 ZAE 133.39 ETE 180.12 ZAC 92.81 ETC 166.49 CLP-138.88

PLANETOCENTRIC CONIC
 C3 17.513 VHL 4.185 OLA 34.72 RAL 22.50 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 3.924 DPA -4.78 RAP 359.97 ECC 1.2882
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.01 22 57 29 3998.72 -24.72 170.09 250.89 64.80 24 4 7 3398.7 -27.90 162.31
 110.99 4 12 8 3011.67 -24.71 96.31 250.89 64.79 5 2 19 2411.7 -27.89 88.54
 69.01 22 57 29 3998.72 -24.72 170.09 250.89 64.80 24 4 7 3398.7 -27.90 162.31
 110.99 4 12 8 3011.67 -24.71 96.31 250.89 64.79 5 2 19 2411.7 -27.89 88.54
 69.01 22 57 29 3998.72 -24.72 170.09 250.89 64.80 24 4 7 3398.7 -27.90 162.31
 110.99 4 12 8 3011.67 -24.71 96.31 250.89 64.79 5 2 19 2411.7 -27.89 88.54

DIFFERENTIAL CORRECTIONS
 TDE 2.2995 TRA 2.2453 TC3-2.7861 BAU .6529 SGT 5416.4 SGR 358.1 SG3 996.9 ST 3342.9 SR 341.1 SS 2308.4
 RDE .2488 RRA -.0316 RC3 .1160 FAU .09187 RRT .3347 RRF .3132 RTF .9908 CRT .9250 CRS -.9001 CST -.9981
 FDE 4.5719 FRA 5.3531 FC3-4.5413 BSP 16937 SGB 5428.2 R23 -.0210 R13 .9907 LSA 4072.8 MSA 178.6 SSA 11.9
 BOE 2.3129 BRA 2.2456 BC3 2.7885 FSP -3563 SGI 5417.7 SG2 337.4 TMA 1.27 EL1 3357.8 EL2 129.0 ALF 5.40

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 10 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC
 RL 147.31 LAL -.00 LOL 78.00 VL 27.738 GAL 5.51 AZL 86.56 MCA 242.07 SMA 128.54 ECC .17417 INC 3.4435 V1 30.244
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.471 GAP 4.88 AZP 91.61 TAL 152.06 TAP 34.13 RCA 106.15 APO 150.93 V2 34.786
 RC 112.844 GL 22.89 GP -.97 ZAL 47.72 ZAP 141.67 ETS 359.48 ZAE 131.78 ETE 179.89 ZAC 93.14 ETC 166.51 CLP-141.68

PLANETOCENTRIC CONIC
 C3 18.181 VHL 4.264 OLA 34.51 RAL 23.54 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.112 DPA -4.57 RAP .26 ECC 1.2992
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.39 23 3 49 4000.72 -24.33 170.04 252.45 64.73 24 10 30 3400.7 -27.52 162.30
 110.61 4 14 2 3027.08 -24.32 97.32 252.44 64.72 5 4 29 2427.1 -27.51 89.58
 69.39 23 3 49 4000.72 -24.33 170.04 252.45 64.73 24 10 30 3400.7 -27.52 162.30
 110.61 4 14 2 3027.08 -24.32 97.32 252.44 64.72 5 4 29 2427.1 -27.51 89.58
 69.39 23 3 49 4000.72 -24.33 170.04 252.45 64.73 24 10 30 3400.7 -27.52 162.30
 110.61 4 14 2 3027.08 -24.32 97.32 252.44 64.72 5 4 29 2427.1 -27.51 89.58

DIFFERENTIAL CORRECTIONS
 TDE 2.3848 TRA 2.4171 TC3-2.7815 BAU .6767 SGT 5606.5 SGR 367.3 SG3 913.8 ST 3416.5 SR 348.8 SS 2191.7
 RDE .2593 RRA -.0353 RC3 .1184 FAU .08291 RRT .3156 RRF .2960 RTF .9906 CRT .9194 CRS -.8938 CST -.9981
 FDE 4.2014 FRA 5.0811 FC3-3.9482 BSP 17653 SGB 5618.5 R23 -.0189 R13 .9905 LSA 4070.0 MSA 181.5 SSA 12.2
 BOE 2.3989 BRA 2.4173 BC3 2.7840 FSP -3280 SGI 5607.7 SG2 348.4 TMA 1.19 EL1 3431.6 EL2 136.6 ALF 5.37

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 10 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 545.484

RL 147.31 LAL -0.00 LOL 78.00 VL 27.723 GAL 5.74 AZL 86.56 MCA 245.23 SMA 128.44 ECC .17707 INC 3.4369 V1 30.244
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.462 GAP 5.28 AZP 91.44 TAL 151.38 TAP 36.60 RCA 105.70 APO 151.18 V2 34.789
 RC 115.239 GL 22.34 GP -0.90 ZAL 46.84 ZAP 144.28 ETS 359.49 ZAE 130.34 ETE 179.71 ZAC 93.66 ETC 166.54 CLP-144.29

PLANETOCENTRIC CONIC

C3 18.930 VHL 4.351 DLA 34.29 RAL 24.60 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 4.309 DPA -4.27 RAP .74 ECC 1.3115
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.79 23 10 29 4002.90 -23.91 170.00 254.08 64.65 24 17 12 3402.9 -27.12 162.29
 110.21 4 15 54 3043.87 -23.90 98.42 254.07 64.64 5 6 38 2443.9 -27.11 90.71
 69.79 23 10 29 4002.90 -23.91 170.00 254.08 64.65 24 17 12 3402.9 -27.12 162.29
 110.21 4 15 54 3043.87 -23.90 98.42 254.07 64.64 5 6 38 2443.9 -27.11 90.71
 69.79 23 10 29 4002.90 -23.91 170.00 254.08 64.65 24 17 12 3402.9 -27.12 162.29
 110.21 4 15 54 3043.87 -23.90 98.42 254.07 64.64 5 6 38 2443.9 -27.11 90.71

DIFFERENTIAL CORRECTIONS

TDE 2.4640 TRA 2.5933 TC3-2.7572 BAU .6985
 RDE .2709 RRA -.0379 RC3 .1186 FAU .07474
 FDE 3.8661 FRA 4.8331 FC3-3.4179 BSP 18307
 BDE 2.4789 BRA 2.5936 BC3 2.7598 FSP -3021

MID-COURSE EXECUTION ACCURACY

SGT 5776.9 SGR 376.2 SG3 838.2
 RRT .3036 RRF .2858 RTF .9903
 SGB 5789.1 R23 -.0168 R13 .9903
 SGI 5778.0 SG2 358.4 TMA 1.14

ORBIT DETERMINATION ACCURACY

ST 3474.4 SR 357.2 SS 2081.8
 CRT .9144 CRS -.8881 CST -.9981
 LSA 4061.9 MSA 184.7 SSA 12.4
 EL1 3489.8 EL2 144.0 ALF 5.38

LAUNCH DATE DEC 10 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 551.479

RL 147.31 LAL -0.00 LOL 78.00 VL 27.708 GAL 5.98 AZL 86.57 MCA 248.39 SMA 128.33 ECC .18024 INC 3.4307 V1 30.244
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.454 GAP 5.69 AZP 91.26 TAL 150.66 TAP 39.05 RCA 105.20 APO 151.46 V2 34.792
 RC 117.630 GL 21.77 GP -.84 ZAL 45.93 ZAP 146.71 ETS 359.50 ZAE 129.05 ETE 179.55 ZAC 94.35 ETC 166.58 CLP-146.72

PLANETOCENTRIC CONIC

C3 19.771 VHL 4.446 DLA 34.06 RAL 25.70 RAD 6567.8 VEL 11.881 PTH 2.11 VHP 4.516 DPA -3.92 RAP 1.38 ECC 1.3254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.23 23 17 30 4005.18 -23.46 169.94 255.79 64.57 24 24 15 3405.2 -26.68 162.27
 109.77 4 17 40 3062.14 -23.44 99.61 255.78 64.56 5 8 42 2462.1 -26.67 91.95
 70.23 23 17 30 4005.18 -23.46 169.94 255.79 64.57 24 24 15 3405.2 -26.68 162.27
 109.77 4 17 40 3062.14 -23.44 99.61 255.78 64.56 5 8 42 2462.1 -26.67 91.95
 110.00 4 41 11 2990.43 -25.44 95.01 256.78 66.35 5 31 1 2390.4 -28.41 87.10
 110.00 3 57 5 3124.89 -21.49 103.46 254.74 62.76 4 49 10 2524.9 -24.97 96.04

DIFFERENTIAL CORRECTIONS

TDE 2.5382 TRA 2.7759 TC3-2.7137 BAU .7180
 RDE .2836 RRA -.0394 RC3 .1170 FAU .06719
 FDE 3.5634 FRA 4.6090 FC3-2.9422 BSP 18899
 BDE 2.5540 BRA 2.7762 BC3 2.7162 FSP -2783

MID-COURSE EXECUTION ACCURACY

SGT 5929.8 SGR 384.9 SG3 769.5
 RRT .2977 RRF .2818 RTF .9900
 SGB 5942.2 R23 -.0147 R13 .9900
 SGI 5930.9 SG2 367.4 TMA 1.11

ORBIT DETERMINATION ACCURACY

ST 3518.5 SR 365.9 SS 1978.6
 CRT .9096 CRS -.8828 CST -.9981
 LSA 4048.9 MSA 188.1 SSA 12.6
 EL1 3534.3 EL2 151.3 ALF 5.41

LAUNCH DATE DEC 10 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 557.446

RL 147.31 LAL -0.00 LOL 78.00 VL 27.691 GAL 6.25 AZL 86.58 MCA 251.55 SMA 128.22 ECC .18368 INC 3.4247 V1 30.244
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.445 GAP 6.10 AZP 91.08 TAL 149.92 TAP 41.48 RCA 104.67 APO 151.77 V2 34.796
 RC 120.015 GL 21.18 GP -.78 ZAL 44.99 ZAP 148.99 ETS 359.53 ZAE 127.89 ETE 179.43 ZAC 95.19 ETC 166.62 CLP-149.00

PLANETOCENTRIC CONIC

C3 20.712 VHL 4.551 DLA 33.81 RAL 26.83 RAD 6567.8 VEL 11.920 PTH 2.12 VHP 4.733 DPA -3.50 RAP 2.16 ECC 1.3409
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.70 23 24 51 4007.51 -22.97 169.87 257.57 64.48 24 31 39 3407.5 -26.21 162.24
 109.30 4 19 17 3082.00 -22.96 100.91 257.57 64.47 5 10 39 2482.0 -26.20 93.28
 70.70 23 24 51 4007.51 -22.97 169.87 257.57 64.48 24 31 39 3407.5 -26.21 162.24
 109.30 4 19 17 3082.00 -22.96 100.91 257.57 64.47 5 10 39 2482.0 -26.20 93.28
 110.00 5 1 50 2952.02 -26.46 92.50 259.28 67.53 5 51 2 2352.0 -29.27 84.44
 110.00 3 45 25 3185.49 -19.56 107.10 255.70 61.39 4 38 30 2585.5 -23.23 99.88

DIFFERENTIAL CORRECTIONS

TDE 2.6080 TRA 2.9660 TC3-2.6534 BAU .7354
 RDE .2973 RRA -.0398 RC3 .1137 FAU .06029
 FDE 3.2909 FRA 4.4072 FC3-2.5201 BSP 19436
 BDE 2.6249 BRA 2.9663 BC3 2.6558 FSP -2565

MID-COURSE EXECUTION ACCURACY

SGT 6067.1 SGR 393.0 SG3 707.3
 RRT .2970 RRF .2831 RTF .9896
 SGB 6079.8 R23 -.0125 R13 .9896
 SGI 6068.2 SG2 375.2 TMA 1.11

ORBIT DETERMINATION ACCURACY

ST 3550.1 SR 374.8 SS 1882.2
 CRT .9053 CRS -.8780 CST -.9981
 LSA 4031.1 MSA 191.7 SSA 12.7
 EL1 3566.3 EL2 158.5 ALF 5.47

LAUNCH DATE DEC 10 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 563.383

RL 147.31 LAL -0.00 LOL 78.00 VL 27.674 GAL 6.53 AZL 86.58 MCA 254.72 SMA 128.10 ECC .18742 INC 3.4190 V1 30.244
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.437 GAP 6.53 AZP 90.90 TAL 149.16 TAP 43.88 RCA 104.09 APO 152.11 V2 34.800
 RC 122.394 GL 20.58 GP -.73 ZAL 44.04 ZAP 151.13 ETS 359.56 ZAE 126.86 ETE 179.34 ZAC 96.17 ETC 166.66 CLP-151.14

PLANETOCENTRIC CONIC

C3 21.765 VHL 4.665 DLA 33.55 RAL 27.98 RAD 6567.9 VEL 11.964 PTH 2.13 VHP 4.961 DPA -3.04 RAP 3.08 ECC 1.3582
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.21 23 32 33 4009.85 -22.46 169.78 259.43 64.40 24 39 23 3409.9 -25.71 162.20
 108.79 4 20 43 3103.51 -22.44 102.31 259.42 64.39 5 12 27 2503.5 -25.70 94.72
 71.21 23 32 33 4009.85 -22.46 169.78 259.43 64.40 24 39 23 3409.9 -25.71 162.20
 108.79 4 20 43 3103.51 -22.44 102.31 259.42 64.39 5 12 27 2503.5 -25.70 94.72
 110.00 5 18 4 2928.00 -27.08 90.90 261.66 68.29 6 6 52 2328.0 -29.77 82.75
 110.00 3 38 19 3233.36 -17.98 109.91 256.93 60.42 4 32 12 2633.4 -21.78 102.84

DIFFERENTIAL CORRECTIONS

TDE 2.6771 TRA 3.1673 TC3-2.5732 BAU .7494
 RDE .3121 RRA -.0389 RC3 .1093 FAU .05377
 FDE 3.0494 FRA 4.2291 FC3-2.1386 BSP 19853
 BDE 2.6953 BRA 3.1675 BC3 2.5756 FSP -2356

MID-COURSE EXECUTION ACCURACY

SGT 6193.3 SGR 400.7 SG3 651.4
 RRT .3013 RRF .2895 RTF .9892
 SGB 6206.3 R23 -.0102 R13 .9892
 SGI 6194.5 SG2 382.0 TMA 1.12

ORBIT DETERMINATION ACCURACY

ST 3574.3 SR 383.7 SS 1794.2
 CRT .9012 CRS -.8735 CST -.9982
 LSA 4012.9 MSA 195.3 SSA 12.9
 EL1 3591.0 EL2 165.5 ALF 5.54

LAUNCH DATE DEC 10 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 569.285

RL 147.31 LAL -0.00 LOL 78.00 VL 27.656 GAL 6.84 AZL 86.59 MCA 257.88 SMA 127.98 ECC .19148 INC 3.4134 V1 30.244
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.429 GAP 6.97 AZP 90.72 TAL 148.38 TAP 46.26 RCA 103.48 APO 152.49 V2 34.805
 RC 124.766 GL 19.96 GP -.69 ZAL 43.06 ZAP 153.15 ETS 359.59 ZAE 125.93 ETE 179.26 ZAC 97.27 ETC 166.70 CLP-153.16

PLANETOCENTRIC CONIC

C3 22.943 VHL 4.790 DLA 33.27 RAL 29.14 RAD 6567.9 VEL 12.013 PTH 2.14 VHP 5.199 DPA -2.52 RAP 4.10 ECC 1.3776
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.76 23 40 35 4012.18 -21.91 169.68 261.35 64.31 24 47 27 3412.2 -25.18 162.13
 108.24 4 21 57 3126.75 -21.90 103.82 261.34 64.31 5 14 4 2526.7 -25.17 96.28
 71.76 23 40 35 4012.18 -21.91 169.68 261.35 64.31 24 47 27 3412.2 -25.18 162.13
 108.24 4 21 57 3126.75 -21.90 103.82 261.34 64.31 5 14 4 2526.7 -25.17 96.28
 110.00 5 32 33 2910.20 -27.52 89.71 264.02 68.87 6 21 4 2310.2 -30.13 81.49
 110.00 3 33 6 3276.72 -16.50 112.41 258.30 59.63 4 27 42 2676.7 -20.41 105.46

DIFFERENTIAL CORRECTIONS

TDE 2.7401 TRA 3.3750 TC3-2.4860 BAU .7632
 RDE .3276 RRA -.0369 RC3 .1036 FAU .04806
 FDE 2.8270 FRA 4.0646 FC3-1.8133 BSP 20305
 BOE 2.7596 BRA 3.3752 BC3 2.4882 FSP -2177

MID-COURSE EXECUTION ACCURACY

SGT 6303.1 SGR 407.7 SG3 600.3
 RRT .3088 RRF .2987 RTF .9888
 SGB 6316.3 R23 -.0082 R13 .9888
 SG1 6304.4 S62 387.7 THA 1.15

ORBIT DETERMINATION ACCURACY

ST 3584.2 SR 392.2 SS 1709.3
 CRT .8972 CRS -.8693 CST -.9982
 LSA 3985.2 MSA 199.1 SSA 12.9
 EL1 3601.5 EL2 172.3 ALF 5.62

LAUNCH DATE DEC 10 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 575.152

RL 147.31 LAL -0.00 LOL 78.00 VL 27.638 GAL 7.17 AZL 86.59 MCA 261.05 SMA 127.86 ECC .19588 INC 3.4080 V1 30.244
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.421 GAP 7.41 AZP 90.53 TAL 147.58 TAP 48.63 RCA 102.81 APO 152.90 V2 34.811
 RC 127.128 GL 19.33 GP -.65 ZAL 42.08 ZAP 155.06 ETS 359.63 ZAE 125.09 ETE 179.21 ZAC 98.48 ETC 166.74 CLP-155.07

PLANETOCENTRIC CONIC

C3 24.261 VHL 4.926 DLA 32.98 RAL 30.31 RAD 6568.0 VEL 12.068 PTH 2.16 VHP 5.448 DPA -1.97 RAP 5.23 ECC 1.3993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.35 23 49 0 4014.29 -21.33 169.54 263.33 64.23 24 55 55 3414.3 -24.62 162.04
 107.65 4 22 53 3151.94 -21.32 105.46 263.32 64.22 5 15 25 2551.9 -24.60 97.96
 72.35 23 49 0 4014.29 -21.33 169.54 263.33 64.23 24 55 55 3414.3 -24.62 162.04
 107.65 4 22 53 3151.94 -21.32 105.46 263.32 64.22 5 15 25 2551.9 -24.60 97.96
 110.00 5 46 4 2896.29 -27.86 88.77 266.41 69.34 6 34 20 2296.3 -30.41 80.50
 110.00 3 28 56 3317.94 -15.07 114.74 259.77 58.95 4 24 14 2717.9 -19.07 107.91

DIFFERENTIAL CORRECTIONS

TDE 2.8005 TRA 3.5932 TC3-2.3878 BAU .7751
 RDE .3439 RRA -.0336 RC3 .0970 FAU .04284
 FDE 2.6264 FRA 3.9164 FC3-1.5289 BSP 20720
 BOE 2.8215 BRA 3.5933 BC3 2.3897 FSP -2014

MID-COURSE EXECUTION ACCURACY

SGT 6400.8 SGR 413.9 SG3 553.9
 RRT .3194 RRF .3110 RTF .9883
 SGB 6414.1 R23 -.0062 R13 .9883
 SG1 6402.1 S62 392.2 THA 1.19

ORBIT DETERMINATION ACCURACY

ST 3584.9 SR 400.3 SS 1630.1
 CRT .8934 CRS -.8652 CST -.9982
 LSA 3953.1 MSA 202.9 SSA 13.0
 EL1 3602.7 EL2 178.9 ALF 5.71

LAUNCH DATE DEC 10 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 580.980

RL 147.31 LAL -0.00 LOL 78.00 VL 27.619 GAL 7.53 AZL 86.60 MCA 264.21 SMA 127.73 ECC .20064 INC 3.4026 V1 30.244
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.413 GAP 7.88 AZP 90.34 TAL 146.76 TAP 50.98 RCA 102.10 APO 153.36 V2 34.818
 RC 129.481 GL 18.68 GP -.62 ZAL 41.08 ZAP 156.87 ETS 359.66 ZAE 124.33 ETE 179.17 ZAC 99.78 ETC 166.77 CLP-156.88

PLANETOCENTRIC CONIC

C3 25.737 VHL 5.073 DLA 32.67 RAL 31.49 RAD 6568.0 VEL 12.129 PTH 2.17 VHP 5.710 DPA -1.38 RAP 6.45 ECC 1.4236
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.98 0 1 43 4016.23 -20.72 169.37 265.37 64.15 1 8 39 3416.2 -24.02 161.91
 107.02 4 23 31 3179.10 -20.70 107.23 265.36 64.14 5 16 30 2579.1 -24.01 99.77
 72.98 0 1 43 4016.23 -20.72 169.37 265.37 64.15 1 8 39 3416.2 -24.02 161.91
 107.02 4 23 31 3179.10 -20.70 107.23 265.36 64.14 5 16 30 2579.1 -24.01 99.77
 110.00 5 58 55 2885.23 -28.12 88.01 268.83 69.71 6 47 0 2285.2 -30.62 79.71
 110.00 3 25 29 3358.10 -13.65 116.98 261.31 58.35 4 21 28 2758.1 -17.73 110.26

DIFFERENTIAL CORRECTIONS

TDE 2.8598 TRA 3.8243 TC3-2.2788 BAU .7847
 RDE .3610 RRA -.0290 RC3 .0899 FAU .03804
 FDE 2.4461 FRA 3.7845 FC3-1.2795 BSP 21084
 BOE 2.8825 BRA 3.8244 BC3 2.2806 FSP -1863

MID-COURSE EXECUTION ACCURACY

SGT 6488.7 SGR 419.6 SG3 511.9
 RRT .3328 RRF .3260 RTF .9879
 SGB 6502.3 R23 -.0043 R13 .9879
 SG1 6490.2 S62 395.5 THA 1.24

ORBIT DETERMINATION ACCURACY

ST 3578.5 SR 407.8 SS 1556.6
 CRT .8897 CRS -.8614 CST -.9982
 LSA 3918.2 MSA 206.6 SSA 12.9
 EL1 3596.9 EL2 185.2 ALF 5.81

LAUNCH DATE DEC 10 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 586.766

RL 147.31 LAL -0.00 LOL 78.00 VL 27.600 GAL 7.91 AZL 86.60 MCA 267.38 SMA 127.60 ECC .20581 INC 3.3973 V1 30.244
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.405 GAP 8.36 AZP 90.16 TAL 145.93 TAP 53.31 RCA 101.34 APO 153.86 V2 34.825
 RC 131.823 GL 18.03 GP -.58 ZAL 40.07 ZAP 158.60 ETS 359.69 ZAE 123.65 ETE 179.14 ZAC 101.17 ETC 166.80 CLP-158.61

PLANETOCENTRIC CONIC

C3 27.393 VHL 5.234 DLA 32.35 RAL 32.67 RAD 6568.1 VEL 12.197 PTH 2.19 VHP 5.985 DPA -.75 RAP 7.75 ECC 1.4508
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.66 0 10 53 4017.84 -20.07 169.16 267.46 64.08 1 17 51 3417.8 -23.39 161.74
 106.34 4 23 46 3208.41 -20.06 109.14 267.45 64.07 5 17 14 2608.4 -23.38 101.72
 73.66 0 10 53 4017.84 -20.07 169.16 267.46 64.08 1 17 51 3417.8 -23.39 161.74
 106.34 4 23 46 3208.41 -20.06 109.14 267.45 64.07 5 17 14 2608.4 -23.38 101.72
 110.00 6 11 17 2876.45 -28.33 87.41 271.29 70.01 6 59 13 2276.4 -30.78 79.08
 110.00 3 22 32 3397.80 -12.22 119.17 262.93 57.82 4 19 10 2797.8 -16.38 112.54

DIFFERENTIAL CORRECTIONS

TDE 2.9219 TRA 4.0718 TC3-2.1563 BAU .7903
 RDE .3787 RRA -.0229 RC3 .0826 FAU .03344
 FDE 2.2873 FRA 3.6696 FC3-1.0569 BSP 21330
 BOE 2.9463 BRA 4.0719 BC3 2.1579 FSP -1718

MID-COURSE EXECUTION ACCURACY

SGT 6570.2 SGR 424.6 SG3 474.1
 RRT .3492 RRF .3439 RTF .9874
 SGB 6583.9 R23 -.0023 R13 .9874
 SG1 6571.9 S62 397.7 THA 1.30

ORBIT DETERMINATION ACCURACY

ST 3569.5 SR 414.7 SS 1490.4
 CRT .8862 CRS -.8579 CST -.9983
 LSA 3884.7 MSA 210.1 SSA 12.9
 EL1 3588.4 EL2 191.1 ALF 5.90

LAUNCH DATE DEC 10 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 592.503

RL 147.31 LAL -.00 LOL 78.00 VL 27.580 GAL 8.33 AZL 86.61 MCA 270.55 SMA 127.47 ECC .21140 INC 3.3920 V1 30.244
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.398 GAP 8.86 AZP 89.97 TAL 145.09 TAP 55.65 RCA 100.52 APO 154.41 V2 34.833
 RC 134.153 GL 17.37 GP -.56 ZAL 39.06 ZAP 160.25 ETS 359.72 ZAE 123.02 ETE 179.13 ZAC 102.63 ETC 166.81 CLP-160.26

PLANETOCENTRIC CONIC

C3 29.252 VHL 5.408 DLA 32.02 RAL 33.84 RAD 6568.2 VEL 12.273 PTH 2.21 VHP 6.275 DPA -.10 RAP 9.12 ECC 1.4814
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.40 0 20 28 4018.97 -19.39 168.90 269.61 64.01 1 27 27 3419.0 -22.73 161.52
 105.60 4 23 34 3240.04 -19.38 111.20 269.60 64.00 5 17 34 2640.0 -22.71 103.83
 74.40 0 20 28 4018.97 -19.39 168.90 269.61 64.01 1 27 27 3419.0 -22.73 161.52
 105.60 4 23 34 3240.04 -19.38 111.20 269.60 64.00 5 17 34 2640.0 -22.71 103.83
 110.00 6 23 15 2869.61 -28.48 86.94 273.80 70.25 7 11 5 2269.6 -30.90 78.58
 110.00 3 19 57 3437.40 -10.77 121.33 264.60 57.36 4 17 15 2837.4 -15.00 114.78

DIFFERENTIAL CORRECTIONS

TOE 2.9785 TRA 4.3295 TC3-2.0341 BAU .7960
 RDE .3970 RRA -.0155 RC3 .0749 FAU .02945
 FDE 2.1393 FRA 3.5629 FC3 -.8716 BSP 21656
 BOE 3.0048 BRA 4.3295 BC3 2.0355 FSP -1595

MID-COURSE EXECUTION ACCURACY

SGT 6637.6 SGR 428.7 SC3 439.2
 RRT .3667 RRF .3626 RTF .9871
 SGB 6651.5 R23 -.0007 R13 .9871
 SC1 6639.5 SG2 398.8 THA 1.36

ORBIT DETERMINATION ACCURACY

ST 3548.8 SR 420.6 SS 1426.2
 CRT .8826 CRS -.8543 CST -.9983
 LSA 3841.8 MSA 213.6 SSA 12.8
 EL1 3568.2 EL2 196.7 ALF 5.99

LAUNCH DATE DEC 10 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 598.186

RL 147.31 LAL -.00 LOL 78.00 VL 27.560 GAL 8.77 AZL 86.61 MCA 273.72 SMA 127.33 ECC .21747 INC 3.3867 V1 30.244
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.391 GAP 9.39 AZP 89.78 TAL 144.25 TAP 57.97 RCA 99.64 APO 155.02 V2 34.841
 RC 136.471 GL 16.70 GP -.53 ZAL 38.05 ZAP 161.84 ETS 359.74 ZAE 122.45 ETE 179.12 ZAC 104.16 ETC 166.81 CLP-161.85

PLANETOCENTRIC CONIC

C3 31.343 VHL 5.598 DLA 31.67 RAL 35.01 RAD 6568.2 VEL 12.358 PTH 2.23 VHP 6.580 DPA .58 RAP 10.55 ECC 1.5158
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.19 0 30 31 4019.44 -18.68 168.57 271.80 63.95 1 37 31 3419.4 -22.03 161.23
 104.81 4 22 50 3274.22 -18.67 113.43 271.79 63.94 5 17 25 2674.2 -22.02 106.10
 75.19 0 30 31 4019.44 -18.68 168.57 271.80 63.95 1 37 31 3419.4 -22.03 161.23
 104.81 4 22 50 3274.22 -18.67 113.43 271.79 63.94 5 17 25 2674.2 -22.02 106.10
 110.00 6 34 54 2864.50 -28.60 86.59 276.34 70.43 7 22 39 2264.5 -31.00 78.21
 110.00 3 17 38 3477.16 -9.30 123.47 266.33 56.96 4 15 35 2877.2 -13.59 117.00

DIFFERENTIAL CORRECTIONS

TOE 3.0362 TRA 4.6037 TC3-1.9050 BAU .7988
 RDE .4158 RRA -.0066 RC3 .0673 FAU .02573
 FDE 2.0064 FRA 3.4687 FC3 -.7106 BSP 21932
 BOE 3.0646 BRA 4.6038 BC3 1.9062 FSP -1481

MID-COURSE EXECUTION ACCURACY

SGT 6697.2 SGR 432.2 SC3 407.5
 RRT .3860 RRF .3829 RTF .9867
 SGB 6711.1 R23 .0007 R13 .9867
 SC1 6699.3 SG2 398.6 THA 1.43

ORBIT DETERMINATION ACCURACY

ST 3523.9 SR 425.6 SS 1367.2
 CRT .8790 CRS -.8509 CST -.9984
 LSA 3797.5 MSA 216.8 SSA 12.7
 EL1 3543.7 EL2 201.8 ALF 6.08

LAUNCH DATE DEC 10 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 603.810

RL 147.31 LAL -.00 LOL 78.00 VL 27.540 GAL 9.25 AZL 86.62 MCA 276.89 SMA 127.20 ECC .22406 INC 3.3814 V1 30.244
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.385 GAP 9.94 AZP 89.59 TAL 143.40 TAP 60.30 RCA 98.70 APO 155.70 V2 34.850
 RC 138.775 GL 16.03 GP -.51 ZAL 37.05 ZAP 163.38 ETS 359.74 ZAE 121.92 ETE 179.13 ZAC 105.74 ETC 166.80 CLP-163.38

PLANETOCENTRIC CONIC

C3 33.701 VHL 5.805 DLA 31.31 RAL 36.17 RAD 6568.3 VEL 12.453 PTH 2.25 VHP 6.904 DPA 1.28 RAP 12.03 ECC 1.5546
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.05 0 41 6 4018.98 -17.94 168.15 274.03 63.90 1 48 5 3419.0 -21.30 160.86
 103.95 4 21 30 3311.22 -17.93 115.85 274.02 63.89 5 16 41 2711.2 -21.29 108.56
 76.05 0 41 6 4018.98 -17.94 168.15 274.03 63.90 1 48 5 3419.0 -21.30 160.86
 103.95 4 21 30 3311.22 -17.93 115.85 274.02 63.89 5 16 41 2711.2 -21.29 108.56
 110.00 6 46 15 2860.97 -28.68 86.35 278.93 70.55 7 33 56 2261.0 -31.06 77.96
 110.00 3 15 31 3517.23 -7.81 125.61 268.11 56.61 4 14 8 2917.2 -12.15 119.20

DIFFERENTIAL CORRECTIONS

TOE 3.0947 TRA 4.8958 TC3-1.7722 BAU .7989
 RDE .4351 RRA .0039 RC3 .0599 FAU .02229
 FDE 1.8867 FRA 3.3856 FC3 -.5725 BSP 22179
 BOE 3.1252 BRA 4.8958 BC3 1.7732 FSP -1376

MID-COURSE EXECUTION ACCURACY

SGT 6749.0 SGR 435.0 SC3 378.6
 RRT .4068 RRF .4045 RTF .9864
 SGB 6763.1 R23 .0021 R13 .9864
 SC1 6751.4 SG2 397.3 THA 1.51

ORBIT DETERMINATION ACCURACY

ST 3494.5 SR 429.4 SS 1312.8
 CRT .8755 CRS -.8477 CST -.9984
 LSA 3751.2 MSA 219.6 SSA 12.6
 EL1 3514.8 EL2 206.3 ALF 6.16

LAUNCH DATE DEC 10 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 609.365

RL 147.31 LAL -.00 LOL 78.00 VL 27.520 GAL 10.51 AZL 86.62 MCA 280.07 SMA 127.06 ECC .23122 INC 3.3760 V1 30.244
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.378 GAP 10.51 AZP 89.41 TAL 142.56 TAP 62.63 RCA 97.68 APO 156.44 V2 34.860
 RC 141.067 GL 15.36 GP -.49 ZAL 36.06 ZAP 164.86 ETS 359.75 ZAE 121.43 ETE 179.14 ZAC 107.37 ETC 166.77 CLP-164.87

PLANETOCENTRIC CONIC

C3 36.367 VHL 6.031 DLA 30.94 RAL 37.31 RAD 6568.4 VEL 12.559 PTH 2.28 VHP 7.246 DPA 1.99 RAP 13.56 ECC 1.5985
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.99 0 52 18 4017.26 -17.17 167.62 276.30 63.86 1 59 15 3417.3 -20.54 160.37
 103.01 4 19 24 3351.39 -17.15 118.48 276.30 63.85 5 15 15 2751.4 -20.53 111.23
 76.99 0 52 18 4017.26 -17.17 167.62 276.30 63.86 1 59 15 3417.3 -20.54 160.37
 103.01 4 19 24 3351.39 -17.15 118.48 276.30 63.85 5 15 15 2751.4 -20.53 111.23
 110.00 6 57 20 2858.91 -28.73 86.21 281.56 70.62 7 44 59 2258.9 -31.09 77.81
 110.00 3 13 32 3557.74 -6.29 127.76 269.93 56.33 4 12 50 2957.7 -10.67 121.41

DIFFERENTIAL CORRECTIONS

TOE 3.1542 TRA 5.2069 TC3-1.6367 BAU .7962
 RDE .4548 RRA .0162 RC3 .0528 FAU .01910
 FDE 1.7784 FRA 3.3126 FC3 -.4546 BSP 22406
 BOE 3.1868 BRA 5.2069 BC3 1.6376 FSP -1280

MID-COURSE EXECUTION ACCURACY

SGT 6792.9 SGR 437.2 SC3 352.2
 RRT .4286 RRF .4270 RTF .9862
 SGB 6806.9 R23 .0032 R13 .9862
 SC1 6795.5 SG2 394.8 THA 1.59

ORBIT DETERMINATION ACCURACY

ST 3461.0 SR 432.2 SS 1262.6
 CRT .8720 CRS -.8445 CST -.9985
 LSA 3702.7 MSA 222.1 SSA 12.4
 EL1 3481.5 EL2 210.3 ALF 6.24

LAUNCH DATE DEC 11 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 19 1969

HELIOCENTRIC CONIC

DISTANCE 133.578

RL 147.29 LAL -0.00 LOL 79.02 VL 17.024 GAL 23.91 AZL 86.43 MCA 40.76 SMA 87.76 ECC .74085 INC 3.5707 V1 30.248
 RP 107.49 LAP 2.33 LOP 119.73 VP 30.937 GAP -46.42 AZP 87.29 TAL 170.74 TAP 211.50 RCA 22.74 APO 152.78 V2 35.254
 RC 77.721 GL 3.40 GP .19 ZAL 64.29 ZAP 31.91 ETS 179.44 ZAE 136.52 ETE 187.98 ZAC 67.01 ETC 163.74 CLP 31.91

PLANETOCENTRIC CONIC

C3 267.845 VHL 16.366 DLA 8.95 RAL 12.27 RAD 6571.6 VEL 19.727 PTH 3.12 VMP 26.349 DPA -13.77 RAP 334.82 ECC 5.4081
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 15 3055.93 -27.62 100.48 279.07 83.51 6 34 11 2455.9 -28.23 91.87
 90.00 19 56 54 5137.33 -25.21 228.89 270.17 76.66 21 22 32 4537.3 23.13 220.84
 100.00 7 8 57 2779.50 -29.26 80.36 279.28 83.61 7 55 17 2179.5 -29.84 71.61
 100.00 21 13 53 4888.99 26.82 210.20 269.74 76.27 22 35 22 4289.0 24.66 202.06
 110.00 8 27 9 2534.82 -33.69 62.35 279.85 83.85 9 9 23 1934.8 -34.18 53.14
 110.00 22 12 11 4706.44 31.13 195.09 268.48 75.12 23 30 37 4106.4 28.78 186.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8129 TRA-1.9731 TC3 -.1164 BAU .4194 SGT 845.6 SGR 451.4 SG3 26.7 ST 353.7 SR 408.7 SS 341.7
 RDE-1.1553 RRA .5519 RC3 -.0132 FAU .01189 RRT -.0136 RRF .0141 RTF -.6288 CRT .7111 CRS .7841 CST .9923
 FDE .3709 FRA .7074 FC3 -.0384 BSP 1587 SGB 958.5 R23 -.0021 R13 .6289 LSA 598.8 MSA 224.0 SSA 14.0
 BOE 1.4127 BRA 2.0488 BC3 .1171 FSP -50 SGI 845.7 SG2 451.3 TMA 179.42 EL1 501.0 EL2 202.9 ALF 50.76

LAUNCH DATE DEC 11 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 139.281

RL 147.29 LAL -0.00 LOL 79.02 VL 17.765 GAL 22.84 AZL 86.45 MCA 44.01 SMA 89.28 ECC .71359 INC 3.5513 V1 30.248
 RP 107.48 LAP 2.47 LOP 122.97 VP 31.353 GAP -44.31 AZP 87.44 TAL 169.89 TAP 213.90 RCA 25.57 APO 152.99 V2 35.256
 RC 75.571 GL 3.72 GP .20 ZAL 63.04 ZAP 30.38 ETS 179.57 ZAE 136.69 ETE 188.45 ZAC 68.67 ETC 164.02 CLP 30.38

PLANETOCENTRIC CONIC

C3 244.717 VHL 15.643 DLA 9.74 RAL 13.33 RAD 6571.4 VEL 19.132 PTH 3.09 VMP 25.349 DPA -13.16 RAP 336.47 ECC 5.0274
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 41 9 3069.60 -27.51 101.47 279.59 83.02 6 32 19 2469.6 -28.19 92.87
 90.00 20 7 26 5099.65 24.59 226.30 270.06 75.50 21 32 25 4499.7 22.36 218.34
 100.00 7 7 18 2791.78 -29.17 81.26 279.81 83.14 7 53 50 2191.8 -29.81 72.52
 100.00 21 23 58 4852.71 26.20 207.68 269.60 75.08 22 44 51 4252.7 23.90 199.64
 110.00 8 26 27 2544.08 -33.62 63.07 280.43 83.44 9 8 51 1944.1 -34.16 53.87
 110.00 22 21 18 4673.17 30.53 192.69 268.23 73.81 23 39 12 4073.2 28.01 184.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7708 TRA-1.9418 TC3 -.1168 BAU .3852 SGT 856.7 SGR 456.6 SG3 28.8 ST 355.9 SR 413.8 SS 353.4
 RDE-1.1182 RRA .5285 RC3 -.0150 FAU .01222 RRT -.0229 RRF .0158 RTF -.6492 CRT .6986 CRS .7833 CST .9904
 FDE .3806 FRA .7283 FC3 -.0432 BSP 2775 SGB 970.8 R23 .0049 R13 .6492 LSA 608.0 MSA 230.2 SSA 14.0
 BOE 1.3582 BRA 2.0124 BC3 .1177 FSP -66 SGI 856.8 SG2 456.5 TMA 179.02 EL1 504.2 EL2 209.0 ALF 51.10

LAUNCH DATE DEC 11 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 145.098

RL 147.29 LAL -0.00 LOL 79.02 VL 18.459 GAL 21.83 AZL 86.47 MCA 47.26 SMA 90.82 ECC .68664 INC 3.5341 V1 30.248
 RP 107.48 LAP 2.59 LOP 126.22 VP 31.753 GAP -42.31 AZP 87.60 TAL 169.04 TAP 216.30 RCA 28.46 APO 153.18 V2 35.258
 RC 73.439 GL 4.05 GP .20 ZAL 61.83 ZAP 28.87 ETS 179.70 ZAE 136.96 ETE 188.96 ZAC 70.34 ETC 164.29 CLP 28.87

PLANETOCENTRIC CONIC

C3 223.738 VHL 14.958 DLA 10.52 RAL 14.34 RAD 6571.3 VEL 18.576 PTH 3.05 VMP 24.385 DPA -12.54 RAP 338.13 ECC 4.6822
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 53 3082.52 -27.40 102.40 280.00 82.57 6 30 16 2482.5 -28.15 93.81
 90.00 20 17 45 5061.50 23.92 223.71 269.90 74.37 21 42 7 4461.5 21.54 215.84
 100.00 7 5 28 2803.29 -29.07 82.10 280.25 82.71 7 52 11 2203.3 -29.77 73.37
 100.00 21 33 52 4815.96 25.54 205.15 269.40 73.91 22 54 8 4216.0 23.08 197.21
 110.00 8 25 36 2552.55 -33.55 63.72 280.90 83.06 9 8 8 1952.6 -34.15 54.53
 110.00 22 30 13 4639.47 29.86 190.29 267.92 72.54 23 47 33 4039.5 27.18 182.12

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7862 TRA-1.9677 TC3 -.1262 BAU .3807 SGT 906.0 SGR 461.1 SG3 31.2 ST 379.1 SR 418.0 SS 370.8
 RDE-1.0803 RRA .5058 RC3 -.0168 FAU .01227 RRT -.0179 RRF .0134 RTF -.6672 CRT .7007 CRS .7847 CST .9906
 FDE .3971 FRA .7560 FC3 -.0475 BSP 2598 SGB 1016.6 R23 .0027 R13 .6672 LSA 632.4 MSA 236.1 SSA 14.3
 BOE 1.3361 BRA 2.0317 BC3 .1273 FSP -69 SGI 906.1 SG2 461.0 TMA 179.30 EL1 520.9 EL2 217.0 ALF 48.97

LAUNCH DATE DEC 11 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 151.015

RL 147.29 LAL -0.00 LOL 79.02 VL 19.109 GAL 20.87 AZL 86.48 MCA 50.50 SMA 92.36 ECC .66009 INC 3.5186 V1 30.248
 RP 107.48 LAP 2.71 LOP 129.47 VP 32.136 GAP -40.41 AZP 87.76 TAL 168.21 TAP 218.71 RCA 31.40 APO 153.33 V2 35.259
 RC 71.328 GL 4.39 GP .21 ZAL 60.68 ZAP 27.39 ETS 179.84 ZAE 137.32 ETE 189.49 ZAC 72.04 ETC 164.54 CLP 27.39

PLANETOCENTRIC CONIC

C3 204.649 VHL 14.306 DLA 11.29 RAL 15.30 RAD 6571.1 VEL 18.055 PTH 3.01 VMP 23.454 DPA -11.90 RAP 339.81 ECC 4.3680
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 36 25 3094.68 -27.29 103.27 280.30 82.15 6 27 59 2494.7 -28.10 94.70
 90.00 20 27 53 5022.83 23.19 221.11 269.68 73.27 21 51 36 4422.8 20.67 213.34
 100.00 7 3 26 2814.01 -28.97 82.89 280.56 82.31 7 50 20 2214.0 -29.74 74.17
 100.00 21 43 33 4778.73 24.81 202.62 269.14 72.77 23 3 11 4178.7 22.21 194.79
 110.00 8 24 33 2560.19 -33.49 64.31 281.26 82.71 9 7 13 1960.2 -34.13 55.12
 110.00 22 38 55 4605.31 29.14 187.89 267.56 71.29 23 55 40 4005.3 26.31 179.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7932 TRA-1.9844 TC3 -.1343 BAU .3711 SGT 951.6 SGR 464.9 SG3 33.7 ST 400.2 SR 421.7 SS 387.7
 RDE-1.0425 RRA .4829 RC3 -.0188 FAU .01238 RRT -.0148 RRF .0113 RTF -.6848 CRT .7008 CRS .7858 CST .9905
 FDE .4131 FRA .7832 FC3 -.0524 BSP 2634 SGB 1059.1 R23 .0019 R13 .6848 LSA 655.5 MSA 241.5 SSA 14.5
 BOE 1.3100 BRA 2.0423 BC3 .1357 FSP -75 SGI 951.6 SG2 464.8 TMA 179.46 EL1 536.3 EL2 224.5 ALF 47.14

LAUNCH DATE DEC 11 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 157.026

RL 147.29 LAL -0.00 LOL 79.02 VL 19.718 GAL 19.96 AZL 86.50 MCA 53.75 SMA 93.91 ECC .63403 INC 3.5044 V1 30.248
 RP 107.48 LAP 2.83 LOP 132.72 VP 32.502 GAP -38.60 AZP 87.93 TAL 167.39 TAP 221.14 RCA 34.37 APO 153.45 V2 35.259
 RC 69.241 GL 4.75 GP .22 ZAL 59.59 ZAP 25.92 ETS 179.99 ZAE 137.77 ETE 190.06 ZAC 73.76 ETC 164.78 CLP 25.92

PLANETOCENTRIC CONIC

C3 187.264 VHL 13.684 DLA 12.04 RAL 16.21 RAD 6571.0 VEL 17.567 PTH 2.97 VHP 22.554 DPA -11.24 RAP 341.50 ECC 4.0819
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 43 3106.10 -27.18 104.09 280.50 81.75 6 25 29 2506.1 -28.05 95.53
 90.00 20 37 49 4983.60 22.39 218.51 269.41 72.20 22 0 53 4383.6 19.75 210.84
 100.00 7 1 12 2823.96 -28.88 83.61 280.77 81.94 7 48 16 2224.0 -29.70 74.90
 100.00 21 53 1 4740.97 24.02 200.09 268.83 71.66 23 12 2 4141.0 21.29 192.36
 110.00 8 23 19 2567.02 -33.43 64.83 281.50 82.41 9 6 6 1967.0 -34.12 55.66
 110.00 22 47 24 4570.68 28.36 185.50 267.15 70.06 24 3 35 3970.7 25.38 177.59

DIFFERENTIAL CORRECTIONS

TOE -.7962 TRA-1.9962 TC3 -.1418 BAU .3588
 RDE -1.0048 RRA .4598 RC3 -.0209 FAU .01254
 FDE .4291 FRA .8104 FC3 -.0580 BSP 2779
 BOE 1.2820 BRA 2.0485 BC3 .1433 FSP -82

MID-COURSE EXECUTION ACCURACY

SGT 996.0 SGR 468.0 SG3 36.4
 RRT -.0123 RRF .0091 RTF -.7020
 SGB 1100.5 R23 .0019 R13 .7020
 SG1 996.0 SG2 468.0 THA 179.58

ORBIT DETERMINATION ACCURACY

ST 420.7 SR 424.8 SS 404.7
 CRT .7001 CRS .7869 CST .9902
 LSA 678.4 MSA 246.6 SSA 14.7
 EL1 551.3 EL2 231.5 ALF 45.40

LAUNCH DATE DEC 11 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 163.126

RL 147.29 LAL -0.00 LOL 79.02 VL 20.290 GAL 19.08 AZL 86.51 MCA 57.00 SMA 95.45 ECC .60856 INC 3.4914 V1 30.248
 RP 107.48 LAP 2.93 LOP 135.97 VP 32.851 GAP -36.88 AZP 88.10 TAL 166.59 TAP 223.59 RCA 37.36 APO 153.54 V2 35.258
 RC 67.184 GL 5.12 GP .22 ZAL 58.55 ZAP 24.47 ETS 180.14 ZAE 138.33 ETE 190.66 ZAC 75.50 ETC 165.01 CLP 24.47

PLANETOCENTRIC CONIC

C3 171.419 VHL 13.093 DLA 12.79 RAL 17.07 RAD 6570.9 VEL 17.110 PTH 2.93 VHP 21.683 DPA -10.56 RAP 343.19 ECC 3.8211
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 48 3116.84 -27.08 104.86 280.58 81.38 6 22 45 2516.8 -27.99 96.31
 90.00 20 47 35 4943.77 21.54 215.90 269.08 71.16 22 9 58 4343.8 18.77 208.32
 100.00 6 58 45 2833.19 -28.79 84.28 280.87 81.60 7 45 59 2233.2 -29.65 75.59
 100.00 22 2 19 4702.65 23.18 197.56 268.46 70.58 23 20 41 4102.7 20.32 189.93
 110.00 8 21 53 2573.06 -33.37 65.29 281.63 82.14 9 4 46 1973.1 -34.10 56.13
 110.00 22 55 40 4535.54 27.52 183.11 266.69 68.88 24 11 16 3935.5 24.40 175.33

DIFFERENTIAL CORRECTIONS

TOE -.7977 TRA-2.0054 TC3 -.1487 BAU .3450
 RDE -.9673 RRA .4367 RC3 -.0233 FAU .01273
 FDE .4454 FRA .8379 FC3 -.0643 BSP 2970
 BOE 1.2538 BRA 2.0524 BC3 .1503 FSP -90

MID-COURSE EXECUTION ACCURACY

SGT 1040.8 SGR 470.4 SG3 39.4
 RRT -.0099 RRF .0067 RTF -.7186
 SGB 1142.2 R23 .0022 R13 .7186
 SG1 1040.9 SG2 470.4 THA 179.68

ORBIT DETERMINATION ACCURACY

ST 441.5 SR 427.4 SS 422.0
 CRT .6992 CRS .7881 CST .9899
 LSA 701.6 MSA 251.3 SSA 14.8
 EL1 566.4 EL2 238.1 ALF 43.67

LAUNCH DATE DEC 11 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 169.307

RL 147.29 LAL -0.00 LOL 79.02 VL 20.825 GAL 18.25 AZL 86.52 MCA 60.25 SMA 96.99 ECC .58372 INC 3.4793 V1 30.248
 RP 107.48 LAP 3.02 LOP 139.22 VP 33.183 GAP -35.24 AZP 88.27 TAL 165.80 TAP 226.05 RCA 40.37 APO 153.60 V2 35.257
 RC 65.159 GL 5.50 GP .23 ZAL 57.57 ZAP 23.03 ETS 180.30 ZAE 138.99 ETE 191.30 ZAC 77.25 ETC 165.22 CLP 23.03

PLANETOCENTRIC CONIC

C3 156.969 VHL 12.529 DLA 13.52 RAL 17.87 RAD 6570.7 VEL 16.682 PTH 2.89 VHP 20.841 DPA -9.86 RAP 344.89 ECC 3.5833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 27 39 3126.93 -26.97 105.58 280.55 81.03 6 19 46 2526.9 -27.94 97.04
 90.00 20 57 10 4903.31 20.63 213.29 268.70 70.16 22 18 54 4303.3 17.74 205.80
 100.00 6 56 5 2841.73 -28.71 84.90 280.85 81.28 7 43 27 2241.7 -29.61 76.22
 100.00 22 11 25 4663.74 22.27 195.02 268.05 69.53 23 29 9 4063.7 19.29 187.50
 110.00 8 20 15 2578.36 -33.32 65.70 281.65 81.90 9 3 14 1978.4 -34.08 56.54
 110.00 23 3 44 4499.88 26.62 180.72 266.18 67.72 24 18 44 3899.9 23.37 173.08

DIFFERENTIAL CORRECTIONS

TOE -.8017 TRA-2.0159 TC3 -.1561 BAU .3320
 RDE -.9299 RRA .4137 RC3 -.0258 FAU .01293
 FDE .4626 FRA .8664 FC3 -.0713 BSP 3114
 BOE 1.2277 BRA 2.0579 BC3 .1582 FSP -98

MID-COURSE EXECUTION ACCURACY

SGT 1089.2 SGR 472.1 SG3 42.6
 RRT -.0064 RRF .0038 RTF -.7342
 SGB 1187.1 R23 .0020 R13 .7342
 SG1 1089.2 SG2 472.1 THA 179.80

ORBIT DETERMINATION ACCURACY

ST 464.2 SR 429.2 SS 440.1
 CRT .6992 CRS .7895 CST .9897
 LSA 726.6 MSA 255.5 SSA 15.0
 EL1 583.1 EL2 244.3 ALF 41.81

LAUNCH DATE DEC 11 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 175.565

RL 147.29 LAL -0.00 LOL 79.02 VL 21.327 GAL 17.45 AZL 86.53 MCA 63.49 SMA 98.51 ECC .55958 INC 3.4680 V1 30.248
 RP 107.48 LAP 3.10 LOP 142.47 VP 33.498 GAP -33.67 AZP 88.45 TAL 165.04 TAP 228.54 RCA 43.39 APO 153.63 V2 35.254
 RC 63.173 GL 5.89 GP .24 ZAL 56.64 ZAP 21.61 ETS 180.47 ZAE 139.76 ETE 192.00 ZAC 79.02 ETC 165.42 CLP 21.61

PLANETOCENTRIC CONIC

C3 143.782 VHL 11.991 DLA 14.25 RAL 18.63 RAD 6570.6 VEL 16.282 PTH 2.85 VHP 20.026 DPA -9.16 RAP 346.60 ECC 3.3663
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 15 3136.44 -26.87 106.25 280.41 80.71 6 16 31 2536.4 -27.88 97.73
 90.00 21 6 36 4862.18 19.66 210.66 268.27 69.20 22 27 39 4262.2 16.65 203.27
 100.00 6 53 10 2849.64 -28.62 85.48 280.73 80.99 7 40 40 2249.6 -29.57 76.80
 100.00 22 20 22 4624.21 21.31 192.48 267.58 68.53 23 37 26 4024.2 18.21 185.06
 110.00 8 18 25 2582.94 -33.28 66.05 281.56 81.70 9 1 27 1982.9 -34.07 56.90
 110.00 23 11 37 4463.68 25.67 178.35 265.62 66.61 24 26 1 3863.7 22.28 170.83

DIFFERENTIAL CORRECTIONS

TOE -.8038 TRA-2.0231 TC3 -.1626 BAU .3174
 RDE -.8928 RRA .3908 RC3 -.0285 FAU .01318
 FDE .4804 FRA .8953 FC3 -.0793 BSP 3313
 BOE 1.2013 BRA 2.0605 BC3 .1651 FSP -108

MID-COURSE EXECUTION ACCURACY

SGT 1137.7 SGR 473.0 SG3 46.0
 RRT -.0031 RRF .0005 RTF -.7494
 SGB 1232.1 R23 .0023 R13 .7494
 SG1 1137.7 SG2 473.0 THA 179.91

ORBIT DETERMINATION ACCURACY

ST 487.0 SR 430.5 SS 458.6
 CRT .6991 CRS .7910 CST .9894
 LSA 752.0 MSA 259.1 SSA 15.2
 EL1 600.1 EL2 249.8 ALF 39.99

LAUNCH DATE DEC 11 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 181.892

RL 147.29 LAL -.00 LOL 79.02 VL 21.797 GAL 16.69 AZL 86.54 MCA 66.74 SMA 100.02 ECC .53617 INC 3.4573 V1 30.248
 RP 107.50 LAP 3.18 LOP 145.72 VP 33.796 GAP -32.17 AZP 88.63 TAL 164.31 TAP 231.05 RCA 46.39 APO 153.64 V2 35.251
 RC 61.231 GL 6.30 GP .25 ZAL 55.77 ZAP 20.20 ETS 180.65 ZAE 140.65 ETE 192.75 ZAC 80.79 ETC 165.60 CLP 20.20

PLANETOCENTRIC CONIC

C3 131.744 VML 11.478 DLA 14.97 RAL 19.33 RAD 6570.4 VEL 15.908 PTH 2.81 VMP 19.237 DPA -8.44 RAP 348.31 ECC 3.1682
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 20 34 3145.42 -26.77 106.89 280.16 80.40 6 12 59 2545.4 -27.82 98.38
 90.00 21 15 54 4820.35 18.62 208.03 267.79 68.28 22 36 14 4220.4 15.51 200.73
 100.00 6 50 1 2856.96 -28.54 86.01 280.50 80.72 7 37 38 2257.0 -29.53 77.34
 100.00 22 29 8 4584.05 20.29 189.94 267.07 67.56 23 45 32 3984.0 17.07 182.62
 110.00 8 16 20 2586.84 -33.24 66.35 281.35 81.53 8 59 27 1986.8 -34.05 57.20
 110.00 23 19 18 4426.93 24.65 175.97 265.02 65.53 24 33 5 3826.9 21.14 168.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8061 TRA-2.0289 TC3 -.1688 BAW .3024
 RDE -.8559 RRA .3682 RC3 -.0314 FAU .01345
 FDE .4991 FRA .9250 FC3 -.0884 BSP 3521
 BOE 1.1758 BRA 2.0620 BC3 .1717 FSP -119

SGT 1187.9 SGR 473.2 SG3 49.8
 RRT .0008 RRF -.0032 RTF -.7640
 SGB 1278.7 R23 -.0025 R13 -.7640
 SG1 1187.9 SG2 473.2 TMA .02

ST 510.8 SR 431.1 SS 477.9
 CRT .6993 CRS .7927 CST .9891
 LSA 778.5 MSA 262.2 SSA 15.3
 EL1 618.0 EL2 254.2 ALF 38.15

LAUNCH DATE DEC 11 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 188.285

RL 147.29 LAL -.00 LOL 79.02 VL 22.238 GAL 15.95 AZL 86.55 MCA 69.99 SMA 101.50 ECC .51353 INC 3.4472 V1 30.248
 RP 107.51 LAP 3.24 LOP 148.98 VP 34.078 GAP -30.73 AZP 88.82 TAL 163.59 TAP 233.58 RCA 49.38 APO 153.62 V2 35.248
 RC 59.338 GL 6.72 GP .26 ZAL 54.95 ZAP 18.81 ETS 180.85 ZAE 141.66 ETE 193.56 ZAC 82.58 ETC 165.77 CLP 18.80

PLANETOCENTRIC CONIC

C3 120.754 VML 10.989 DLA 15.68 RAL 19.98 RAD 6570.3 VEL 15.559 PTH 2.77 VMP 18.473 DPA -7.70 RAP 350.02 ECC 2.9873
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 16 36 3153.95 -26.67 107.50 279.81 80.12 6 9 10 2553.9 -27.76 99.00
 90.00 21 25 4 4777.81 17.53 205.38 267.26 67.40 22 44 42 4177.8 14.32 198.18
 100.00 6 46 35 2863.76 -28.47 86.50 280.16 80.47 7 34 19 2263.8 -29.49 77.84
 100.00 22 37 46 4543.23 19.21 187.39 266.51 66.65 23 53 29 3943.2 15.88 180.17
 110.00 8 14 2 2590.13 -33.21 66.60 281.04 81.39 8 57 12 1990.1 -34.04 57.46
 110.00 23 26 48 4389.63 23.58 173.61 264.38 64.50 24 39 58 3789.6 19.95 166.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8112 TRA-2.0357 TC3 -.1753 BAW .2885
 RDE -.8195 RRA .3458 RC3 -.0345 FAU .01375
 FDE .5190 FRA .9559 FC3 -.0986 BSP 3671
 BOE 1.1531 BRA 2.0649 BC3 .1787 FSP -130

SGT 1242.1 SGR 472.6 SG3 53.8
 RRT .0060 RRF -.0077 RTF -.7775
 SGB 1329.0 R23 -.0023 R13 -.7775
 SG1 1242.1 SG2 472.6 TMA .15

ST 537.1 SR 431.0 SS 498.1
 CRT .7007 CRS .7948 CST .9890
 LSA 807.5 MSA 264.6 SSA 15.5
 EL1 638.1 EL2 258.8 ALF 36.22

LAUNCH DATE DEC 11 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 194.736

RL 147.29 LAL -.00 LOL 79.02 VL 22.651 GAL 15.25 AZL 86.56 MCA 73.23 SMA 102.96 ECC .49168 INC 3.4374 V1 30.248
 RP 107.52 LAP 3.29 LOP 152.23 VP 34.345 GAP -29.35 AZP 89.01 TAL 162.91 TAP 236.14 RCA 52.34 APO 153.59 V2 35.243
 RC 57.501 GL 7.15 GP .27 ZAL 54.20 ZAP 17.42 ETS 181.06 ZAE 142.80 ETE 194.45 ZAC 84.38 ETC 165.93 CLP 17.41

PLANETOCENTRIC CONIC

C3 110.718 VML 10.522 DLA 16.38 RAL 20.58 RAD 6570.1 VEL 15.235 PTH 2.73 VMP 17.733 DPA -6.96 RAP 351.74 ECC 2.8221
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 12 20 3162.11 -26.57 108.07 279.35 79.84 6 5 2 2562.1 -27.71 99.59
 90.00 21 34 7 4734.51 16.38 202.73 266.69 66.57 22 53 1 4134.5 13.07 195.61
 100.00 6 42 53 2870.11 -28.40 86.96 279.71 80.24 7 30 43 2270.1 -29.45 78.31
 100.00 22 46 15 4501.75 18.07 184.83 265.91 65.77 24 1 17 3901.7 14.65 177.71
 110.00 8 11 30 2592.84 -33.18 66.81 280.62 81.27 8 54 43 1992.8 -34.03 57.67
 110.00 23 34 7 4351.78 22.45 171.25 263.70 63.52 24 46 39 3751.8 18.71 164.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8145 TRA-2.0387 TC3 -.1806 BAW .2731
 RDE -.7835 RRA .3237 RC3 -.0378 FAU .01409
 FDE .5398 FRA .9875 FC3 -.1102 BSP 3683
 BOE 1.1302 BRA 2.0643 BC3 .1845 FSP -142

SGT 1296.1 SGR 471.5 SG3 58.2
 RRT .0112 RRF -.0126 RTF -.7907
 SGB 1379.1 R23 -.0024 R13 -.7907
 SG1 1296.1 SG2 471.2 TMA .27

ST 563.3 SR 430.2 SS 518.9
 CRT .7020 CRS .7970 CST .9887
 LSA 837.0 MSA 266.4 SSA 15.6
 EL1 658.6 EL2 262.1 ALF 34.38

LAUNCH DATE DEC 11 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 201.241

RL 147.29 LAL -.00 LOL 79.02 VL 23.038 GAL 14.57 AZL 86.57 MCA 76.48 SMA 104.39 ECC .47064 INC 3.4280 V1 30.248
 RP 107.54 LAP 3.33 LOP 155.48 VP 34.596 GAP -28.03 AZP 89.20 TAL 162.25 TAP 238.73 RCA 55.26 APO 153.52 V2 35.238
 RC 55.726 GL 7.60 GP .29 ZAL 53.50 ZAP 16.03 ETS 181.30 ZAE 144.06 ETE 195.43 ZAC 86.18 ETC 166.07 CLP 16.03

PLANETOCENTRIC CONIC

C3 101.552 VML 10.077 DLA 17.08 RAL 21.13 RAD 6570.0 VEL 14.930 PTH 2.69 VMP 17.016 DPA -6.20 RAP 353.45 ECC 2.6713
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 7 45 3170.00 -26.48 108.63 278.79 79.58 6 0 35 2570.0 -27.65 100.16
 90.00 21 43 4 4690.46 15.17 200.06 266.09 65.80 23 1 14 4090.5 11.77 193.03
 100.00 6 38 53 2876.09 -28.33 87.39 279.17 80.03 7 26 49 2276.1 -29.41 78.75
 100.00 22 54 37 4459.60 16.87 182.28 265.27 64.95 24 8 56 3859.6 13.36 175.25
 110.00 8 8 42 2595.05 -33.16 66.97 280.10 81.17 8 51 57 1995.0 -34.02 57.84
 110.00 23 41 16 4313.41 21.27 168.90 262.98 62.58 24 53 10 3713.4 17.42 161.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8179 TRA-2.0400 TC3 -.1851 BAW .2574
 RDE -.7480 RRA .3021 RC3 -.0412 FAU .01447
 FDE .5619 FRA 1.0202 FC3 -.1234 BSP 4099
 BOE 1.1084 BRA 2.0622 BC3 .1896 FSP -156

SGT 1351.9 SGR 469.1 SG3 63.0
 RRT .0169 RRF -.0181 RTF -.8032
 SGB 1430.9 R23 -.0026 R13 -.8032
 SG1 1351.9 SG2 469.0 TMA .38

ST 590.7 SR 428.7 SS 540.7
 CRT .7037 CRS .7994 CST .9886
 LSA 867.9 MSA 267.5 SSA 15.7
 EL1 680.2 EL2 264.5 ALF 32.57

LAUNCH DATE DEC 11 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 207.794

RL 147.29 LAL -0.00 LOL 79.02 VL 23.401 GAL 13.92 AZL 86.58 MCA 79.72 SMA 105.79 ECC .45041 INC 3.4188 V1 30.248
 RP 107.56 LAP 3.36 LOP 158.72 VP 34.833 GAP -26.75 AZP 89.39 TAL 161.63 TAP 241.35 RCA 58.14 APO 153.45 V2 35.232
 RC 54.021 GL 8.07 GP .30 ZAL 52.85 ZAP 14.66 ETS 181.56 ZAE 145.46 ETE 196.51 ZAC 87.98 ETC 166.19 CLP 14.65

PLANETOCENTRIC CONIC

C3 93.183 VML 9.653 CLA 17.76 RAL 21.62 RAD 6569.8 VEL 14.647 PTH 2.65 VHP 16.322 DPA -5.44 RAP 355.16 ECC 2.5336
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 2 49 3177.71 -26.38 109.18 278.13 79.32 5 55 46 2577.7 -27.59 100.72
 90.00 21 51 56 4645.64 13.90 197.38 265.44 65.08 23 9 21 4045.6 10.42 190.43
 100.00 6 34 34 2881.79 -28.26 87.80 278.52 79.82 7 22 36 2281.8 -29.37 79.17
 100.00 23 2 51 4416.79 15.62 179.71 264.60 64.19 24 16 28 3816.8 12.02 172.77
 110.00 8 5 39 2596.82 -33.14 67.11 279.48 81.09 8 48 56 1996.8 -34.01 57.98
 110.00 23 48 15 4274.53 20.03 166.56 262.23 61.70 24 59 30 3674.5 16.09 159.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8219 TRA-2.0395 TC3 -.1886 BAU .2415 SGT 1409.4 SCR 466.1 SG3 68.2 ST 619.3 SR 426.5 SS 563.5
 RDE -.7131 RRA .2809 RC3 -.0448 FAU .01490 RRT .0235 RRF -.0243 RTF -.8151 CRT .7060 CRS .8021 CST .9884
 FDE .5855 FRA 1.0542 FC3 -.1384 BSP 4317 SGB 1484.5 R23 -.0027 R13 -.8151 LSA 900.6 MSA 267.8 SSA 15.8
 BOE 1.0881 BRA 2.0588 BC3 .1939 FSP -171 SGI 1409.5 SG2 466.0 THA .50 EL1 703.4 EL2 266.0 ALF 30.80

LAUNCH DATE DEC 11 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 214.389

RL 147.29 LAL -0.00 LOL 79.02 VL 23.740 GAL 13.30 AZL 86.59 MCA 82.96 SMA 107.16 ECC .43101 INC 3.4098 V1 30.248
 RP 107.58 LAP 3.38 LOP 161.97 VP 35.055 GAP -25.53 AZP 89.58 TAL 161.04 TAP 244.00 RCA 60.97 APO 153.35 V2 35.226
 RC 52.393 GL 8.54 GP .32 ZAL 52.27 ZAP 13.28 ETS 181.86 ZAE 147.00 ETE 197.73 ZAC 89.79 ETC 166.30 CLP 13.28

PLANETOCENTRIC CONIC

C3 85.543 VML 9.249 CLA 18.45 RAL 22.06 RAD 6569.7 VEL 14.384 PTH 2.61 VHP 15.649 DPA -4.67 RAP 356.87 ECC 2.4078
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 57 31 3185.35 -26.28 109.71 277.38 79.07 5 50 36 2585.4 -27.53 101.27
 90.00 22 0 43 4600.05 12.57 194.69 264.76 64.42 23 17 24 4000.0 9.03 187.80
 100.00 6 29 57 2887.30 -28.19 88.19 277.78 79.62 7 18 4 2287.3 -29.33 79.58
 100.00 23 10 59 4373.33 14.32 177.15 263.89 63.48 24 23 52 3773.3 10.64 170.29
 110.00 8 2 20 2598.22 -33.12 67.22 278.76 81.03 8 45 39 1998.2 -34.01 58.09
 110.00 23 55 5 4235.17 18.74 164.23 261.45 60.88 25 5 40 3635.2 14.72 157.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8261 TRA-2.0371 TC3 -.1911 BAU .2255 SGT 1468.5 SCR 462.4 SG3 73.9 ST 649.1 SR 423.6 SS 587.4
 RDE -.6789 RRA .2801 RC3 -.0486 FAU .01538 RRT .0309 RRF -.0312 RTF -.8264 CRT .7089 CRS .8052 CST .9883
 FDE .6107 FRA 1.0897 FC3 -.1556 BSP 4542 SGB 1539.6 R23 -.0029 R13 -.8264 LSA 934.9 MSA 267.5 SSA 15.9
 BOE 1.0693 BRA 2.0536 BC3 .1971 FSP -187 SGI 1468.6 SG2 462.1 THA .62 EL1 727.8 EL2 266.5 ALF 29.09

LAUNCH DATE DEC 11 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 221.023

RL 147.29 LAL -0.00 LOL 79.02 VL 24.058 GAL 12.70 AZL 86.60 MCA 86.21 SMA 108.49 ECC .41243 INC 3.4009 V1 30.248
 RP 107.60 LAP 3.39 LOP 165.22 VP 35.264 GAP -24.35 AZP 89.77 TAL 160.48 TAP 246.69 RCA 63.75 APO 153.24 V2 35.219
 RC 50.852 GL 9.04 GP .33 ZAL 51.74 ZAP 11.90 ETS 182.21 ZAE 148.67 ETE 199.11 ZAC 91.59 ETC 166.39 CLP 11.90

PLANETOCENTRIC CONIC

C3 78.569 VML 8.864 CLA 19.13 RAL 22.45 RAD 6569.5 VEL 14.139 PTH 2.58 VHP 14.997 DPA -3.89 RAP 358.57 ECC 2.2930
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 51 50 3193.06 -26.18 110.26 276.53 78.81 5 45 3 2593.1 -27.46 101.82
 90.00 22 9 29 4553.66 11.19 191.98 264.05 63.82 23 25 22 3953.7 7.59 185.16
 100.00 6 24 59 2892.73 -28.12 88.58 276.95 79.43 7 13 11 2292.7 -29.29 79.97
 100.00 23 19 1 4329.23 12.96 174.57 263.15 62.83 24 31 11 3729.2 9.21 167.79
 110.00 7 58 45 2599.35 -33.11 67.30 277.95 80.98 8 42 4 1999.3 -34.00 58.18
 110.00 0 5 40 4195.38 17.41 161.92 260.64 60.11 1 15 36 3595.4 13.30 155.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8306 TRA-2.0326 TC3 -.1922 BAU .2092 SGT 1529.1 SCR 457.8 SG3 80.2 ST 680.0 SR 420.0 SS 612.6
 RDE -.6453 RRA .2399 RC3 -.0524 FAU .01590 RRT .0391 RRF -.0390 RTF -.8371 CRT .7123 CRS .8085 CST .9883
 FDE .6378 FRA 1.1267 FC3 -.1753 BSP 4772 SGB 1596.1 R23 -.0031 R13 -.8371 LSA 971.0 MSA 266.4 SSA 16.0
 BOE 1.0519 BRA 2.0467 BC3 .1992 FSP -206 SGI 1529.2 SG2 457.4 THA .74 EL1 753.7 EL2 266.0 ALF 27.45

LAUNCH DATE DEC 11 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 227.690

RL 147.29 LAL -0.00 LOL 79.02 VL 24.355 GAL 12.13 AZL 86.61 MCA 89.45 SMA 109.78 ECC .39467 INC 3.3921 V1 30.248
 RP 107.62 LAP 3.39 LOP 168.47 VP 35.459 GAP -23.22 AZP 89.97 TAL 159.96 TAP 249.40 RCA 66.45 APO 153.11 V2 35.211
 RC 49.405 GL 9.54 GP .35 ZAL 51.27 ZAP 10.53 ETS 182.63 ZAE 150.48 ETE 200.69 ZAC 93.39 ETC 166.47 CLP 10.52

PLANETOCENTRIC CONIC

C3 72.205 VML 8.497 CLA 19.80 RAL 22.78 RAD 6569.4 VEL 13.912 PTH 2.54 VHP 14.366 DPA -3.11 RAP .26 ECC 2.1883
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 45 3200.97 -26.08 110.81 275.59 78.55 5 39 6 2601.0 -27.39 102.39
 90.00 22 18 12 4506.49 9.76 189.25 263.32 63.29 23 33 19 3906.5 6.10 182.49
 100.00 6 19 39 2898.19 -28.05 88.97 276.03 79.23 7 7 57 2298.2 -29.25 80.38
 100.00 23 26 59 4284.51 11.55 172.00 262.38 62.24 24 38 24 3684.5 7.75 165.28
 110.00 7 54 52 2600.27 -33.10 67.37 277.05 80.94 8 38 13 2000.3 -34.00 58.25
 110.00 0 12 11 4155.19 16.03 159.62 259.81 59.40 1 21 26 3555.2 11.85 153.01

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8356 TRA-2.0261 TC3 -.1917 BAU .1929 SGT 1591.2 SCR 452.4 SG3 86.9 ST 712.2 SR 415.8 SS 639.1
 RDE -.6126 RRA .2203 RC3 -.0564 FAU .01649 RRT .0483 RRF -.0477 RTF -.8472 CRT .7163 CRS .8122 CST .9882
 FDE .6670 FRA 1.1654 FC3 -.1978 BSP 5006 SGB 1634.2 R23 -.0032 R13 -.8472 LSA 1009.1 MSA 264.6 SSA 16.1
 BOE 1.0361 BRA 2.0380 BC3 .1998 FSP -225 SGI 1591.3 SG2 451.9 THA .86 EL1 781.1 EL2 264.5 ALF 25.88

LAUNCH DATE DEC 11 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 234.386
 RL 147.29 LAL -0.00 LOL 79.02 VL 24.632 GAL 11.58 AZL 86.62 MCA 92.68 SMA 111.03 ECC .37772 INC 3.3833 VI 30.248
 RP 107.65 LAP 3.38 LOP 171.71 VP 35.642 GAP -22.13 AZP 90.16 TAL 159.47 TAP 252.16 RCA 69.09 APO 152.97 V2 35.202
 RC 48.064 GL 10.06 GP .37 ZAL 50.86 ZAP 9.15 ETS 183.15 ZAE 152.43 ETE 202.53 ZAC 95.18 ETC 166.53 CLP 9.14

PLANETOCENTRIC CONIC

C3 66.402 VHL 8.149 DLA 20.46 RAL 23.05 RAD 6569.3 VEL 13.702 PTH 2.50 VHP 13.755 DPA -2.33 RAP 1.95 ECC 2.0928
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 14 3209.23 -25.97 111.39 274.57 78.29 5 32 43 2609.2 -27.32 102.98
 90.00 22 26 56 4458.52 8.28 186.50 262.56 62.83 23 41 14 3858.5 4.58 179.79
 100.00 6 13 57 2903.79 -27.98 89.37 275.02 79.03 7 2 21 2303.8 -29.21 80.79
 100.00 23 34 53 4239.19 10.10 169.41 261.59 61.72 24 45 32 3639.2 6.25 162.75
 110.00 7 50 43 2601.08 -33.09 67.43 276.07 80.90 8 34 4 2001.1 -34.00 58.31
 110.00 0 18 33 4114.68 14.61 157.34 258.95 58.75 1 27 8 3514.7 10.37 150.81

DIFFERENTIAL CORRECTIONS

TDE -.8437 TRA-2.0201 TC3 -.1910 BAU .1778 SGT 1657.4 SGR 446.3 SG3 94.4 ST 747.6 SR 410.8 SS 667.6
 RDE -.5807 RRA .2011 RC3 -.0604 FAU .01713 RRT .0595 RRF -.0578 RTF -.8565 CRT .7217 CRS .8163 CST .9884
 FDE .6991 FRA 1.2067 FC3 -.2233 BSP 5183 SGB 1716.5 R23 -.0028 R13 -.8565 LSA 1050.9 MSA 261.9 SSA 16.2
 BDE 1.0242 BRA 2.0301 BC3 .2003 FSP -246 SGI 1657.7 SG2 445.4 TMA .99 EL1 811.8 EL2 261.8 ALF 24.33

LAUNCH DATE DEC 11 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 241.106
 RL 147.29 LAL -0.00 LOL 79.02 VL 24.892 GAL 11.06 AZL 86.63 MCA 95.92 SMA 112.24 ECC .36157 INC 3.3745 VI 30.248
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.814 GAP -21.07 AZP 90.35 TAL 159.03 TAP 254.95 RCA 71.66 APO 152.82 V2 35.194
 RC 46.839 GL 10.60 GP .40 ZAL 50.51 ZAP 7.76 ETS 183.85 ZAE 154.50 ETE 204.70 ZAC 96.97 ETC 166.57 CLP 7.75

PLANETOCENTRIC CONIC

C3 61.110 VHL 7.817 DLA 21.12 RAL 23.28 RAD 6569.1 VEL 13.508 PTH 2.47 VHP 13.163 DPA -1.55 RAP 3.62 ECC 2.0057
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 14 3217.99 -25.84 112.00 273.47 78.00 5 25 52 2618.0 -27.24 103.61
 90.00 22 35 41 4409.74 6.76 183.73 261.78 62.44 23 49 10 3809.7 3.01 177.05
 100.00 6 7 52 2909.66 -27.91 89.79 273.94 78.82 6 56 21 2309.7 -29.16 81.22
 100.00 23 42 44 4193.31 8.61 166.82 260.77 61.26 24 52 38 3593.3 4.71 160.21
 110.00 7 46 15 2601.85 -33.09 67.49 275.02 80.87 8 29 37 2001.9 -33.99 58.37
 110.00 0 24 46 4073.88 13.16 155.07 258.07 58.16 1 32 40 3473.9 8.85 148.62

DIFFERENTIAL CORRECTIONS

TDE -.8497 TRA-2.0095 TC3 -.1869 BAU .1615 SGT 1722.3 SGR 439.3 SG3 102.6 ST 782.5 SR 405.1 SS 697.4
 RDE -.5496 RRA .1827 RC3 -.0644 FAU .01785 RRT .0710 RRF -.0687 RTF -.8655 CRT .7271 CRS .8206 CST .9885
 FDE .7336 FRA 1.2498 FC3 -.2529 BSP 5420 SGB 1777.4 R23 -.0030 R13 -.8655 LSA 1093.5 MSA 258.6 SSA 16.2
 BDE 1.0120 BRA 2.0178 BC3 .1977 FSP -271 SGI 1722.6 SG2 438.2 TMA 1.11 EL1 842.4 EL2 258.3 ALF 22.90

LAUNCH DATE DEC 11 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 247.846
 RL 147.29 LAL -0.00 LOL 79.02 VL 25.134 GAL 10.55 AZL 86.63 MCA 99.16 SMA 113.40 ECC .34621 INC 3.3656 VI 30.248
 RP 107.71 LAP 3.32 LOP 178.19 VP 35.973 GAP -20.06 AZP 90.54 TAL 158.62 TAP 257.77 RCA 74.14 APO 152.66 V2 35.184
 RC 45.742 GL 11.15 GP .42 ZAL 50.22 ZAP 6.36 ETS 184.83 ZAE 156.69 ETE 207.32 ZAC 98.74 ETC 166.59 CLP 6.35

PLANETOCENTRIC CONIC

C3 56.288 VHL 7.503 DLA 21.77 RAL 23.44 RAD 6569.0 VEL 13.328 PTH 2.44 VHP 12.590 DPA -.77 RAP 5.28 ECC 1.9264
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 45 3227.44 -25.71 112.66 272.29 77.70 5 18 33 2627.4 -27.15 104.29
 90.00 22 44 29 4360.13 5.18 180.94 260.98 62.12 23 57 9 3760.1 1.41 174.28
 100.00 6 1 22 2915.93 -27.82 90.24 272.78 78.60 6 49 58 2315.9 -29.11 81.68
 100.00 23 50 34 4146.88 7.08 164.23 259.94 60.88 24 59 41 3546.9 3.15 157.65
 110.00 7 41 29 2602.68 -33.08 67.56 273.89 80.83 8 24 52 2002.7 -33.99 58.43
 110.00 0 30 52 4032.89 11.67 152.82 257.18 57.64 1 38 5 3432.9 7.32 146.43

DIFFERENTIAL CORRECTIONS

TDE -.8564 TRA-1.9971 TC3 -.1806 BAU .1453 SGT 1788.4 SGR 431.6 SG3 111.6 ST 818.9 SR 398.8 SS 729.0
 RDE -.5195 RRA .1648 RC3 -.0684 FAU .01865 RRT .0838 RRF -.0809 RTF -.8740 CRT .7332 CRS .8254 CST .9886
 FDE .7712 FRA 1.2956 FC3 -.2869 BSP 5657 SGB 1839.8 R23 -.0031 R13 -.8740 LSA 1138.4 MSA 254.6 SSA 16.3
 BDE 1.0017 BRA 2.0039 BC3 .1931 FSP -297 SGI 1788.8 SG2 430.0 TMA 1.23 EL1 874.8 EL2 253.9 ALF 21.56

LAUNCH DATE DEC 11 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 254.603
 RL 147.29 LAL -0.00 LOL 79.02 VL 25.361 GAL 10.07 AZL 86.64 MCA 102.39 SMA 114.52 ECC .33163 INC 3.3565 VI 30.248
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.122 GAP -19.08 AZP 90.72 TAL 158.25 TAP 260.64 RCA 76.54 APO 152.50 V2 35.174
 RC 44.782 GL 11.71 GP .45 ZAL 49.98 ZAP 4.96 ETS 186.34 ZAE 158.96 ETE 210.54 ZAC 100.49 ETC 166.60 CLP 4.94

PLANETOCENTRIC CONIC

C3 51.896 VHL 7.204 DLA 22.42 RAL 23.55 RAD 6568.9 VEL 13.163 PTH 2.40 VHP 12.035 DPA .01 RAP 6.93 ECC 1.8541
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 16 44 3237.77 -25.56 113.38 271.04 77.37 5 10 41 2637.8 -27.04 105.03
 90.00 22 53 24 4309.65 3.57 178.10 260.17 61.89 24 5 14 3709.7 -22 171.47
 100.00 5 54 26 2922.72 -27.73 90.72 271.56 78.37 6 43 9 2322.7 -29.05 82.17
 100.00 0 2 18 4099.93 5.52 161.62 259.10 60.58 1 10 38 3499.9 1.56 155.07
 110.00 7 36 25 2603.66 -33.07 67.63 272.70 80.79 8 19 49 2003.7 -33.98 58.51
 110.00 0 36 49 3991.76 10.17 150.59 256.27 57.19 1 43 20 3391.8 5.77 144.26

DIFFERENTIAL CORRECTIONS

TDE -.8636 TRA-1.9824 TC3 -.1717 BAU .1292 SGT 1855.3 SGR 423.2 SG3 121.4 ST 856.5 SR 391.9 SS 762.7
 RDE -.4904 RRA .1476 RC3 -.0722 FAU .01954 RRT .0981 RRF -.0945 RTF -.8821 CRT .7401 CRS .8305 CST .9888
 FDE .8123 FRA 1.3442 FC3 -.3260 BSP 5894 SGB 1902.9 R23 -.0033 R13 -.8821 LSA 1185.8 MSA 249.9 SSA 16.3
 BDE .9931 BRA 1.9879 BC3 .1863 FSP -326 SGI 1855.8 SG2 421.0 TMA 1.35 EL1 908.6 EL2 248.5 ALF 20.29

LAUNCH DATE DEC 11 1968

FLIGHT TIME 110.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 261.371

RL 147.29 LAL -.00 LOL 79.02 VL 25.572 GAL 9.61 AZL 86.65 MCA 105.62 SMA 115.59 ECC .31780 INC 3.3472 V1 30.248
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.260 GAP -18.13 AZP 90.90 TAL 157.92 TAP 263.54 RCA 78.86 APO 152.33 V2 35.164
 RC 43.971 GL 12.28 GP .48 ZAL 49.80 ZAP 3.54 ETS 189.06 ZAE 161.28 ETE 214.58 ZAC 102.23 ETC 166.59 CLP 3.51

PLANETOCENTRIC CONIC

C3 47.897 VML 6.921 DLA 23.06 RAL 23.61 RAD 6568.8 VEL 13.010 PTH 2.37 VMP 11.498 DPA .79 RAP 8.56 ECC 1.7883
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 8 7 3249.19 -25.38 114.17 269.72 77.01 5 2 17 2649.2 -26.92 105.84
 90.00 23 2 27 4258.25 1.92 175.23 259.35 61.74 24 13 26 3658.2 -1.87 168.60
 100.00 5 47 4 2930.18 -27.63 91.26 270.27 78.10 6 35 54 2330.2 -28.99 82.72
 100.00 0 10 8 4052.49 3.93 159.00 258.24 60.34 1 17 40 3452.5 -.05 152.47
 110.00 7 31 3 2604.84 -33.05 67.72 271.45 80.74 8 14 28 2004.8 -33.98 58.60
 110.00 0 42 38 3950.59 8.64 148.38 255.34 56.80 1 48 28 3350.6 4.21 142.09

DIFFERENTIAL CORRECTIONS

TOE -.8711 TRA-1.9656 TC3 -.1599 BAU .1133
 RDE -.4623 RRA .1311 RC3 -.0759 FAU .02053
 FDE .8574 FRA 1.3961 FC3 -.3711 BSP 6134
 BOE .9862 BRA 1.9699 BC3 .1770 FSP -359

MID-COURSE EXECUTION ACCURACY

SGT 1922.7 SGR 414.0 SG3 132.3
 RRT .1140 RRF -.1097 RTF -.8896
 SGB 1966.8 R23 -.0035 R13 -.8897
 SG1 1923.3 SG2 411.2 THA 1.47

ORBIT DETERMINATION ACCURACY

ST 895.4 SR 384.3 SS 798.5
 CRT .7476 CRS .8360 CST .9890
 LSA 1235.7 MSA 244.6 SSA 16.4
 EL1 943.8 EL2 242.2 ALF 19.10

LAUNCH DATE DEC 11 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 268.148

RL 147.29 LAL -.00 LOL 79.02 VL 25.768 GAL 9.17 AZL 86.66 MCA 108.85 SMA 116.62 ECC .30471 INC 3.3376 V1 30.248
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.388 GAP -17.22 AZP 91.08 TAL 157.63 TAP 266.48 RCA 81.08 APO 152.15 V2 35.153
 RC 43.319 GL 12.86 GP .52 ZAL 49.68 ZAP 2.13 ETS 195.45 ZAE 163.60 ETE 219.79 ZAC 103.94 ETC 166.56 CLP 2.06

PLANETOCENTRIC CONIC

C3 44.259 VML 6.653 DLA 23.68 RAL 23.61 RAD 6568.7 VEL 12.869 PTH 2.34 VMP 10.979 DPA 1.56 RAP 10.16 ECC 1.7284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 58 53 3261.96 -25.18 115.05 268.34 76.61 4 53 15 2662.0 -26.78 106.75
 90.00 23 11 43 4205.83 .23 172.31 258.53 61.68 24 21 49 3605.8 -3.56 165.67
 100.00 5 39 14 2938.45 -27.51 91.84 268.93 77.82 6 28 12 2338.5 -28.91 83.32
 100.00 0 18 0 4004.57 2.31 156.36 257.37 60.19 1 24 44 3404.6 -1.67 149.84
 110.00 7 25 23 2606.32 -33.04 67.83 270.14 80.67 8 8 50 2006.3 -33.97 58.72
 110.00 0 48 19 3909.47 7.10 146.19 254.41 56.47 1 53 29 3309.5 2.64 139.94

DIFFERENTIAL CORRECTIONS

TDE -.8768 TRA-1.9445 TC3 -.1429 BAU .0967
 RDE -.4351 RRA .1152 RC3 -.0792 FAU .02167
 FDE .9063 FRA 1.4511 FC3 -.4238 BSP 6432
 BOE .9788 BRA 1.9479 BC3 .1634 FSP -396

MID-COURSE EXECUTION ACCURACY

SGT 1987.6 SGR 404.1 SG3 144.3
 RRT .1306 RRF -.1263 RTF -.8970
 SGB 2028.3 R23 -.0042 R13 -.8970
 SG1 1988.4 SG2 400.5 THA 1.59

ORBIT DETERMINATION ACCURACY

ST 933.4 SR 376.2 SS 836.2
 CRT .7552 CRS .8418 CST .9892
 LSA 1286.3 MSA 239.0 SSA 16.3
 EL1 978.5 EL2 235.2 ALF 18.00

LAUNCH DATE DEC 11 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 274.930

RL 147.29 LAL -.00 LOL 79.02 VL 25.951 GAL 8.75 AZL 86.67 MCA 112.08 SMA 117.59 ECC .29235 INC 3.3276 V1 30.248
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.507 GAP -16.34 AZP 91.25 TAL 157.39 TAP 269.46 RCA 83.22 APO 151.97 V2 35.141
 RC 42.834 GL 13.45 GP .56 ZAL 49.61 ZAP .81 ETS 224.93 ZAE 165.83 ETE 226.68 ZAC 105.63 ETC 166.50 CLP .59

PLANETOCENTRIC CONIC

C3 40.952 VML 6.399 DLA 24.30 RAL 23.56 RAD 6568.6 VEL 12.740 PTH 2.32 VMP 10.476 DPA 2.32 RAP 11.75 ECC 1.6740
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 48 57 3276.37 -24.95 116.05 266.90 76.16 4 43 34 2676.4 -26.61 107.77
 90.00 23 21 15 4152.27 -1.50 169.32 257.71 61.72 24 30 27 3552.3 -5.27 162.67
 100.00 5 30 54 2947.68 -27.37 92.49 267.53 77.50 6 20 2 2347.7 -28.82 83.99
 100.00 0 25 55 3956.19 .67 153.70 256.50 60.11 1 31 51 3356.2 -3.31 147.18
 110.00 7 19 26 2608.14 -33.02 67.97 268.80 80.60 8 2 54 2008.1 -33.96 58.86
 110.00 0 53 53 3868.49 5.55 144.03 253.47 56.22 1 58 21 3268.5 1.08 137.80

DIFFERENTIAL CORRECTIONS

TDE -.8865 TRA-1.9248 TC3 -.1261 BAU .0824
 RDE -.4092 RRA .0999 RC3 -.0822 FAU .02290
 FDE .9610 FRA 1.5110 FC3 -.4841 BSP 6655
 BOE .9764 BRA 1.9274 BC3 .1505 FSP -436

MID-COURSE EXECUTION ACCURACY

SGT 2057.1 SGR 393.6 SG3 157.6
 RRT .1509 RRF -.1454 RTF -.9034
 SGB 2094.4 R23 -.0040 R13 -.9034
 SG1 2058.0 SG2 388.9 THA 1.72

ORBIT DETERMINATION ACCURACY

ST 975.6 SR 367.6 SS 877.1
 CRT .7644 CRS .8481 CST .9895
 LSA 1342.3 MSA 232.5 SSA 16.3
 EL1 1017.5 EL2 227.2 ALF 16.94

LAUNCH DATE DEC 11 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 281.715

RL 147.29 LAL -.00 LOL 79.02 VL 26.121 GAL 8.35 AZL 86.68 MCA 115.30 SMA 118.52 ECC .28068 INC 3.3172 V1 30.248
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.617 GAP -15.49 AZP 91.42 TAL 157.18 TAP 272.48 RCA 85.26 APO 151.79 V2 35.129
 RC 42.524 GL 14.05 GP .61 ZAL 49.60 ZAP 1.09 ETS 327.96 ZAE 167.87 ETE 235.95 ZAC 107.28 ETC 166.43 CLP -.91

PLANETOCENTRIC CONIC

C3 37.946 VML 6.160 DLA 24.91 RAL 23.46 RAD 6568.5 VEL 12.622 PTH 2.29 VMP 9.990 DPA 3.07 RAP 13.30 ECC 1.6245
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 38 14 3292.79 -24.68 117.17 265.41 75.66 4 33 7 2692.8 -26.41 108.93
 90.00 23 31 10 4097.34 -3.27 166.25 256.90 61.86 24 39 27 3497.3 -7.01 159.57
 100.00 5 22 4 2958.01 -27.22 93.22 266.09 77.14 6 11 22 2358.0 -28.72 84.74
 100.00 0 33 57 3907.35 -.99 151.02 255.63 60.12 1 39 4 3307.4 -4.95 144.49
 110.00 7 13 11 2610.36 -32.99 68.14 267.41 80.50 7 56 42 2010.4 -33.95 59.03
 110.00 0 59 19 3827.76 4.01 141.89 252.52 56.02 2 3 7 3227.8 -.48 135.68

DIFFERENTIAL CORRECTIONS

TDE -.8939 TRA-1.9007 TC3 -.1024 BAU .0674
 RDE -.3843 RRA .0853 RC3 -.0846 FAU .02426
 FDE 1.0217 FRA 1.5758 FC3 -.5535 BSP 6905
 BOE .9730 BRA 1.9026 BC3 .1328 FSP -480

MID-COURSE EXECUTION ACCURACY

SGT 2122.9 SGR 382.5 SG3 172.4
 RRT .1722 RRF -.1667 RTF -.9101
 SGB 2157.1 R23 -.0050 R13 -.9101
 SG1 2124.0 SG2 376.6 THA 1.84

ORBIT DETERMINATION ACCURACY

ST 1016.5 SR 358.4 SS 921.0
 CRT .7736 CRS .8548 CST .9898
 LSA 1399.6 MSA 225.9 SSA 16.2
 EL1 1055.4 EL2 218.7 ALF 15.96

LAUNCH DATE DEC 11 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 288.500

RL 147.29 LAL -0.00 LOL 79.02 VL 26.279 GAL 7.98 AZL 86.69 MCA 118.53 SMA 119.41 ECC .26970 INC 3.3062 V1 30.248
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.719 GAP -14.66 AZP 91.58 TAL 157.02 TAP 275.54 RCA 87.20 APO 151.61 V2 35.117
 RC 42.392 GL 14.65 GP .66 ZAL 49.63 ZAP 2.53 ETS 346.58 ZAE 169.53 ETE 248.35 ZAC 108.90 ETC 166.34 CLP -2.44

PLANETOCENTRIC CONIC

C3 35.217 VHL 5.934 DLA 25.50 RAL 23.31 RAD 6568.4 VEL 12.513 PTH 2.27 VHP 9.521 DPA 3.82 RAP 14.82 ECC 1.5796
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 26 36 3311.71 -24.36 118.46 263.86 75.09 4 21 48 2711.7 -26.17 110.26
 90.00 23 41 36 4040.70 -5.08 163.07 256.10 62.11 24 48 57 3440.7 -8.78 156.34
 100.00 5 12 42 2969.62 -27.04 94.04 264.61 76.75 6 2 12 2369.6 -28.60 85.58
 100.00 0 42 7 3858.03 -2.66 148.32 254.76 60.21 1 46 25 3258.0 -6.60 141.75
 110.00 7 6 41 2613.02 -32.96 68.34 265.99 80.38 7 50 14 2013.0 -33.94 59.24
 110.00 1 4 37 3787.39 2.47 139.77 251.57 55.90 2 7 45 3187.4 -2.02 133.57

DIFFERENTIAL CORRECTIONS

TDE -.9032 TRA-1.8757 TC3 -.0767 BAU .0544
 RDE -.3606 RRA .0713 RC3 -.0865 FAU .02579
 FDE 1.0889 FRA 1.6461 FC3 -.6339 BSP 7138
 BOE .9725 BRA 1.8771 BC3 .1156 FSP -529

MID-COURSE EXECUTION ACCURACY

SGT 2189.7 SGR 370.9 SG3 188.7
 RRT .1970 RRF -.1907 RTF -.9160
 SGB 2220.9 R23 -.0053 R13 -.9160
 SG1 2190.9 SG2 363.4 THA 1.96

ORBIT DETERMINATION ACCURACY

ST 1059.6 SR 348.9 SS 968.0
 CRT .7840 CRS .8618 CST .9902
 LSA 1460.6 MSA 218.7 SSA 16.2
 EL1 1095.7 EL2 209.5 ALF 15.04

LAUNCH DATE DEC 11 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 295.281

RL 147.29 LAL -0.00 LOL 79.02 VL 26.426 GAL 7.62 AZL 86.71 MCA 121.75 SMA 120.24 ECC .25938 INC 3.2945 V1 30.248
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.812 GAP -13.86 AZP 91.73 TAL 156.89 TAP 278.64 RCA 89.06 APO 151.43 V2 35.105
 RC 42.442 GL 15.25 GP .72 ZAL 49.72 ZAP 4.08 ETS 351.59 ZAE 170.60 ETE 264.12 ZAC 110.48 ETC 166.23 CLP -4.01

PLANETOCENTRIC CONIC

C3 32.741 VHL 5.722 DLA 26.08 RAL 23.11 RAD 6568.3 VEL 12.414 PTH 2.24 VHP 9.067 DPA 4.55 RAP 16.30 ECC 1.5388
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 52 3333.82 -23.96 119.96 262.26 74.44 4 9 26 2733.8 -25.87 111.81
 90.00 23 52 45 3981.80 -6.95 159.75 255.33 62.48 24 59 7 3381.8 -10.58 152.96
 100.00 5 2 47 2982.68 -26.83 94.96 263.09 76.31 5 52 30 2382.7 -28.45 86.53
 100.00 0 50 27 3808.17 -4.34 145.57 253.90 60.40 1 53 56 3208.2 -8.25 138.97
 110.00 6 59 56 2616.12 -32.93 68.57 264.55 80.25 7 43 32 2016.1 -33.92 59.48
 110.00 1 9 47 3747.50 .94 137.69 250.62 55.83 2 12 15 3147.5 -3.55 131.48

DIFFERENTIAL CORRECTIONS

TDE -.9124 TRA-1.8490 TC3 -.0469 BAU .0435
 RDE -.3380 RRA .0578 RC3 -.0875 FAU .02750
 FDE 1.1634 FRA 1.7226 FC3 -.7271 BSP 7370
 BOE .9730 BRA 1.8499 BC3 .0993 FSP -585

MID-COURSE EXECUTION ACCURACY

SGT 2255.4 SGR 358.8 SG3 207.0
 RRT .2245 RRF -.2178 RTF -.9215
 SGB 2283.8 R23 -.0059 R13 -.9215
 SG1 2256.9 SG2 349.4 THA 2.10

ORBIT DETERMINATION ACCURACY

ST 1103.2 SR 339.0 SS 1018.3
 CRT .7948 CRS .8693 CST .9906
 LSA 1524.5 MSA 211.3 SSA 16.1
 EL1 1136.7 EL2 199.7 ALF 14.17

LAUNCH DATE DEC 11 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 302.056

RL 147.29 LAL -0.00 LOL 79.02 VL 26.562 GAL 7.27 AZL 86.72 MCA 124.96 SMA 121.03 ECC .24970 INC 3.2820 V1 30.248
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.898 GAP -13.09 AZP 91.88 TAL 156.80 TAP 281.77 RCA 90.81 APO 151.26 V2 35.092
 RC 42.671 GL 15.85 GP .79 ZAL 49.84 ZAP 5.68 ETS 353.86 ZAE 170.90 ETE 281.81 ZAC 112.00 ETC 166.10 CLP -5.63

PLANETOCENTRIC CONIC

C3 30.495 VHL 5.522 DLA 26.64 RAL 22.87 RAD 6568.2 VEL 12.323 PTH 2.22 VHP 8.629 DPA 5.27 RAP 17.75 ECC 1.5019
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 59 43 3360.20 -23.47 121.74 260.60 73.68 3 55 44 2760.2 -25.48 113.65
 90.00 0 8 54 3919.67 -8.89 156.21 254.60 63.00 1 14 14 3319.7 -12.44 149.34
 100.00 4 52 16 2997.38 -26.59 95.98 261.54 75.82 5 42 13 2397.4 -28.28 87.59
 100.00 0 59 3 3757.72 -6.03 142.78 253.05 60.67 2 1 41 3157.7 -9.89 136.12
 110.00 6 52 59 2619.65 -32.88 68.84 263.09 80.09 7 36 39 2019.7 -33.90 59.75
 110.00 1 14 49 3708.22 -.56 135.64 249.66 55.82 2 16 37 3108.2 -5.04 129.42

DIFFERENTIAL CORRECTIONS

TDE -.9217 TRA-1.8205 TC3 -.0134 BAU .0362
 RDE -.3167 RRA .0449 RC3 -.0877 FAU .02940
 FDE 1.2468 FRA 1.8065 FC3 -.8345 BSP 7589
 BOE .9745 BRA 1.8210 BC3 .0887 FSP -646

MID-COURSE EXECUTION ACCURACY

SGT 2319.5 SGR 346.5 SG3 227.3
 RRT .2557 RRF -.2484 RTF -.9267
 SGB 2345.3 R23 -.0067 R13 -.9268
 SG1 2321.3 SG2 334.7 THA 2.23

ORBIT DETERMINATION ACCURACY

ST 1147.3 SR 328.9 SS 1072.6
 CRT .8062 CRS .8771 CST .9910
 LSA 1591.6 MSA 203.6 SSA 15.9
 EL1 1178.4 EL2 189.5 ALF 13.37

LAUNCH DATE DEC 11 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 308.824

RL 147.29 LAL -0.00 LOL 79.02 VL 26.688 GAL 6.95 AZL 86.73 MCA 128.18 SMA 121.78 ECC .24063 INC 3.2684 V1 30.248
 RP 108.03 LAP 2.57 LOP 207.25 VP 36.976 GAP -12.35 AZP 92.02 TAL 156.75 TAP 284.93 RCA 92.47 APO 151.08 V2 35.080
 RC 43.078 GL 16.45 GP .87 ZAL 50.02 ZAP 7.34 ETS 355.12 ZAE 170.42 ETE 298.56 ZAC 113.47 ETC 165.94 CLP -7.29

PLANETOCENTRIC CONIC

C3 28.459 VHL 5.335 DLA 27.18 RAL 22.59 RAD 6568.1 VEL 12.241 PTH 2.20 VHP 8.206 DPA 5.97 RAP 19.14 ECC 1.4684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 43 34 3392.88 -22.83 123.92 258.87 72.77 3 40 7 2792.9 -24.97 115.90
 90.00 0 22 48 3852.40 -10.94 152.34 253.92 63.72 1 27 1 3252.4 -14.38 145.36
 100.00 4 41 6 3013.98 -26.31 97.13 259.97 75.28 5 31 20 2414.0 -28.08 88.78
 100.00 1 7 57 3706.53 -7.73 139.93 252.22 61.03 2 9 44 3106.5 -11.53 133.21
 110.00 6 45 52 2623.58 -32.84 69.14 261.62 79.92 7 29 35 2023.6 -33.88 60.06
 110.00 1 19 41 3669.70 -2.03 133.63 248.71 55.87 2 20 51 3069.7 -6.50 127.39

DIFFERENTIAL CORRECTIONS

TDE -.9307 TRA-1.7901 TC3 .0239 BAU .0342
 RDE -.2965 RRA .0325 RC3 -.0868 FAU .03153
 FDE 1.3398 FRA 1.8986 FC3 -.9590 BSP 7796
 BOE .9768 BRA 1.7904 BC3 .0900 FSP -714

MID-COURSE EXECUTION ACCURACY

SGT 2381.3 SGR 333.9 SG3 230.0
 RRT .2908 RRF -.2832 RTF -.9315
 SGB 2404.6 R23 -.0077 R13 -.9316
 SG1 2383.3 SG2 319.2 THA 2.38

ORBIT DETERMINATION ACCURACY

ST 1191.5 SR 318.7 SS 1131.0
 CRT .8183 CRS .8854 CST .9914
 LSA 1661.8 MSA 195.9 SSA 15.7
 EL1 1220.3 EL2 178.8 ALF 12.62

LAUNCH DATE DEC 11 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 315.581

RL 147.29 LAL -0.00 LOL 79.02 VL 26.804 GAL 6.65 AZL 86.75 MCA 131.39 SMA 122.48 ECC .23216 INC 3.2537 V1 30.248
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.048 GAP -11.63 AZP 92.15 TAL 156.74 TAP 288.13 RCA 94.04 APO 150.91 V2 35.067
 RC 43.658 GL 17.03 GP .96 ZAL 50.22 ZAP 9.07 ETS 355.91 ZAE 169.36 ETE 312.26 ZAC 114.88 ETC 165.76 CLP -9.02

PLANETOCENTRIC CONIC

C3 26.615 VML 5.159 DLA 27.70 RAL 22.27 RAD 6568.1 VEL 12.165 PTH 2.18 VMP 7.798 DPA 6.66 RAP 20.47 ECC 1.4380
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 23 58 3436.57 -21.92 126.80 257.02 71.61 3 21 15 2836.6 -24.23 118.89
 90.00 0 39 52 3775.36 -13.22 147.83 253.37 64.73 1 42 47 3175.4 -16.52 140.71
 100.00 4 29 14 3032.77 -25.98 98.43 258.37 74.67 5 19 46 2432.8 -27.83 90.12
 100.00 1 17 17 3654.39 -9.43 137.00 251.41 61.50 2 18 12 3054.4 -13.17 130.20
 110.00 6 38 37 2627.83 -32.79 69.46 260.14 79.74 7 22 25 2027.8 -33.85 60.39
 110.00 1 24 23 3632.10 -3.46 131.67 247.77 55.97 2 24 55 3032.1 -7.91 125.40

DIFFERENTIAL CORRECTIONS

TDE -.9365 TRA-1.7551 TC3 .0691 BAU .0388
 ROE -.2774 RRA .0205 RC3 -.0845 FAU .03399
 FDE 1.4422 FRA 1.9987 FC3-1.1056 B9P 8059
 BOE .9768 BRA 1.7553 BC3 .1091 FSP -794

MID-COURSE EXECUTION ACCURACY

SGT 2435.9 SGR 321.3 SG3 275.3
 RRT .3292 RRF -.3220 RTF -.9363
 SGB 2457.0 R23 -.0095 R13 -.9363
 SGI 2438.2 SG2 303.0 TMA 2.53

ORBIT DETERMINATION ACCURACY

ST 1232.1 SR 308.2 SS 1192.4
 CRT .8305 CRS .8939 CST .9918
 LSA 1731.8 MSA 188.3 SSA 15.4
 EL1 1258.9 EL2 168.1 ALF 11.95

LAUNCH DATE DEC 11 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 322.327

RL 147.29 LAL -0.00 LOL 79.02 VL 26.912 GAL 6.36 AZL 86.76 MCA 134.61 SMA 123.13 ECC .22427 INC 3.2374 V1 30.248
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.113 GAP -10.93 AZP 92.27 TAL 156.76 TAP 291.36 RCA 95.52 APO 150.75 V2 35.053
 RC 44.405 GL 17.60 GP 1.07 ZAL 50.46 ZAP 10.85 ETS 356.41 ZAE 167.99 ETE 322.65 ZAC 116.22 ETC 165.57 CLP -10.80

PLANETOCENTRIC CONIC

C3 24.946 VML 4.995 DLA 28.18 RAL 21.92 RAD 6568.0 VEL 12.096 PTH 2.17 VMP 7.404 DPA 7.34 RAP 21.74 ECC 1.4105
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 54 34 3511.95 -20.22 131.67 254.84 69.74 2 53 6 2912.0 -22.79 123.95
 90.00 1 6 28 3667.96 -16.24 141.40 253.16 66.48 2 7 36 3068.0 -19.29 134.04
 100.00 4 16 32 3054.20 -25.59 99.90 256.74 73.99 5 7 26 2454.2 -27.53 91.64
 100.00 1 27 11 3600.94 -11.15 133.96 250.63 62.09 2 27 12 3000.9 -14.80 127.07
 110.00 6 31 20 2632.29 -32.73 69.80 258.67 79.55 7 15 12 2032.3 -33.83 60.73
 110.00 1 28 53 3595.62 -4.85 129.76 246.83 56.12 2 28 48 2995.6 -9.27 123.45

DIFFERENTIAL CORRECTIONS

TDE -.9445 TRA-1.7214 TC3 .1131 BAU .0464
 ROE -.2598 RRA .0088 RC3 -.0808 FAU .03666
 FDE 1.5589 FRA 2.1116 FC3-1.2721 B9P 8232
 BOE .9796 BRA 1.7214 BC3 .1391 FSP -880

MID-COURSE EXECUTION ACCURACY

SGT 2491.2 SGR 309.0 SG3 303.8
 RRT .3744 RRF -.3672 RTF -.9404
 SGB 2510.3 R23 -.0112 R13 -.9405
 SGI 2493.9 SG2 286.2 TMA 2.69

ORBIT DETERMINATION ACCURACY

ST 1275.1 SR 298.0 SS 1260.0
 CRT .8436 CRS .9029 CST .9923
 LSA 1808.1 MSA 180.6 SSA 15.0
 EL1 1300.0 EL2 157.0 ALF 11.32

LAUNCH DATE DEC 11 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 329.059

RL 147.29 LAL -0.00 LOL 79.02 VL 27.011 GAL 6.09 AZL 86.78 MCA 137.81 SMA 123.75 ECC .21693 INC 3.2192 V1 30.248
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.173 GAP -10.25 AZP 92.39 TAL 156.80 TAP 294.62 RCA 96.90 APO 150.59 V2 35.040
 RC 45.309 GL 18.15 GP 1.20 ZAL 50.73 ZAP 12.72 ETS 356.74 ZAE 166.50 ETE 330.43 ZAC 117.47 ETC 165.34 CLP -12.66

PLANETOCENTRIC CONIC

C3 23.435 VML 4.841 DLA 28.64 RAL 21.54 RAD 6568.0 VEL 12.034 PTH 2.15 VMP 7.025 DPA 8.00 RAP 22.93 ECC 1.3857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.50 0 51 34 3695.95 -18.90 144.61 252.75 68.07 1 53 10 3095.9 -21.71 137.04
 94.50 2 6 29 3453.33 -18.88 126.84 252.74 68.06 3 4 2 2853.3 -21.70 119.27
 100.00 4 2 51 3078.94 -25.11 101.59 255.10 73.23 4 54 10 2478.9 -27.17 93.39
 100.00 1 37 53 3545.57 -12.90 130.78 249.90 62.80 2 36 58 2945.6 -16.44 123.78
 110.00 6 24 5 2636.79 -32.68 70.14 257.21 79.36 7 8 1 2036.8 -33.80 61.08
 110.00 1 33 8 3560.49 -6.18 127.90 245.90 56.31 2 32 29 2960.5 -10.57 121.56

DIFFERENTIAL CORRECTIONS

TDE -.9507 TRA-1.6855 TC3 .1609 BAU .0557
 ROE -.2434 RRA -.0028 RC3 -.0755 FAU .03968
 FDE 1.6890 FRA 2.2368 FC3-1.4658 B9P 8405
 BOE .9814 BRA 1.6855 BC3 .1778 FSP -978

MID-COURSE EXECUTION ACCURACY

SGT 2541.1 SGR 297.2 SG3 335.8
 RRT .4253 RRF -.4184 RTF -.9443
 SGB 2558.4 R23 -.0135 R13 -.9444
 SGI 2544.3 SG2 268.6 TMA 2.88

ORBIT DETERMINATION ACCURACY

ST 1315.7 SR 288.1 SS 1332.2
 CRT .8572 CRS .9122 CST .9927
 LSA 1886.4 MSA 173.1 SSA 14.6
 EL1 1339.0 EL2 145.8 ALF 10.76

LAUNCH DATE DEC 11 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 335.777

RL 147.29 LAL -0.00 LOL 79.02 VL 27.102 GAL 5.84 AZL 86.80 MCA 141.02 SMA 124.32 ECC .21012 INC 3.1986 V1 30.248
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.226 GAP -9.60 AZP 92.49 TAL 156.88 TAP 297.90 RCA 98.20 APO 150.44 V2 35.027
 RC 46.364 GL 18.68 GP 1.36 ZAL 51.02 ZAP 14.67 ETS 356.93 ZAE 165.05 ETE 336.36 ZAC 118.63 ETC 165.10 CLP -14.61

PLANETOCENTRIC CONIC

C3 22.069 VML 4.698 DLA 29.07 RAL 21.15 RAD 6567.9 VEL 11.977 PTH 2.13 VMP 6.660 DPA 8.65 RAP 24.04 ECC 1.3632
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.16 0 30 54 3742.88 -19.54 148.33 251.49 68.04 1 33 17 3142.9 -22.35 140.73
 96.84 2 23 59 3377.18 -19.52 121.51 251.49 68.03 3 20 16 2777.2 -22.34 113.91
 100.00 3 47 48 3108.21 -24.52 103.56 253.43 72.35 4 39 36 2508.2 -26.70 95.44
 100.00 1 49 46 3487.09 -14.69 127.36 249.22 63.67 2 47 53 2887.1 -18.11 120.24
 110.00 6 16 58 2641.07 -32.62 70.46 255.77 79.17 7 0 59 2041.1 -33.77 61.41
 110.00 1 37 6 3526.99 -7.44 126.13 244.88 56.54 2 35 53 2927.0 -11.79 119.74

DIFFERENTIAL CORRECTIONS

TDE -.9527 TRA-1.6450 TC3 .2153 BAU .0666
 ROE -.2283 RRA -.0142 RC3 -.0680 FAU .04317
 FDE 1.8332 FRA 2.3745 FC3-1.6934 B9P 8612
 BOE .9797 BRA 1.6451 BC3 .2258 FSP -1091

MID-COURSE EXECUTION ACCURACY

SGT 2580.7 SGR 288.3 SG3 371.7
 RRT .4817 RRF -.4759 RTF -.9480
 SGB 2596.6 R23 -.0171 R13 -.9481
 SGI 2584.4 SG2 290.6 TMA 3.09

ORBIT DETERMINATION ACCURACY

ST 1350.7 SR 278.5 SS 1408.3
 CRT .8709 CRS .9219 CST .9931
 LSA 1964.1 MSA 166.0 SSA 14.1
 EL1 1372.5 EL2 134.7 ALF 10.28

LAUNCH DATE DEC 11 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 342.478

RL 147.29 LAL -.00 LOL 79.02 VL 27.185 GAL 5.60 AZL 86.82 MCA 144.23 SMA 124.85 ECC .20383 INC 3.1750 V1 30.248
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.275 GAP -8.96 AZP 92.58 TAL 156.98 TAP 301.20 RCA 99.40 APO 150.30 V2 35.013
 RC 47.558 GL 19.17 GP 1.55 ZAL 51.32 ZAP 16.71 ETS 357.02 ZAE 163.71 ETE 341.03 ZAC 119.69 ETC 164.83 CLP -16.64

PLANETOCENTRIC CONIC

C3 20.833 VML 4.564 DLA 29.45 RAL 20.75 RAD 6567.8 VEL 11.925 PTH 2.12 VMP 6.310 DPA 9.28 RAP 25.05 ECC 1.3429
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.57 0 16 40 3769.59 -20.14 150.56 250.26 68.05 1 19 29 3169.6 -22.94 142.92
 98.43 2 35 0 3322.70 -20.12 117.74 250.25 68.04 3 30 23 2722.7 -22.93 110.11
 100.00 3 30 33 3144.90 -23.74 106.01 251.70 71.28 4 22 57 2544.9 -26.08 97.99
 100.00 2 3 48 3422.62 -16.60 123.53 248.63 64.78 3 0 51 2822.6 -19.86 116.25
 110.00 6 10 9 2644.81 -32.57 70.74 254.35 79.01 6 54 14 2044.8 -33.75 61.70
 110.00 1 40 41 3495.48 -8.62 124.45 244.07 56.78 2 38 56 2895.5 -12.93 118.01

DIFFERENTIAL CORRECTIONS

TOE -.9553 TRA-1.6056 TC3 .2655 BAU .0757
 RDE -.2148 RRA -.0259 RC3 -.0585 FAU .04697
 FDE 1.9971 FRA 2.5316 FC3-1.9519 BSP 8722
 BOE .9791 BRA 1.6058 BC3 .2718 FSP -1214

MID-COURSE EXECUTION ACCURACY

SGT 2618.0 SGR 277.3 SG3 412.4
 RRT .5463 RRF -.5415 RTF -.9512
 SGB 2632.6 R23 -.0212 R13 -.9513
 SG1 2622.4 SG2 231.9 THA 3.34

ORBIT DETERMINATION ACCURACY

ST 1385.7 SR 269.8 SS 1491.7
 CRT .8854 CRS .9319 CST .9935
 LSA 1407.6 MSA 159.1 SSA 13.4
 EL1 2046.3 EL2 123.6 ALF 9.86

LAUNCH DATE DEC 11 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 349.163

RL 147.29 LAL -.00 LOL 79.02 VL 27.262 GAL 5.38 AZL 86.85 MCA 147.43 SMA 125.34 ECC .19802 INC 3.1474 V1 30.248
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.318 GAP -8.34 AZP 92.65 TAL 157.10 TAP 304.53 RCA 100.52 APO 150.16 V2 35.000
 RC 48.883 GL 19.61 GP 1.78 ZAL 51.63 ZAP 18.87 ETS 357.01 ZAE 162.56 ETE 344.86 ZAC 120.63 ETC 164.53 CLP -18.79

PLANETOCENTRIC CONIC

C3 19.714 VML 4.440 DLA 29.78 RAL 20.34 RAD 6567.8 VEL 11.878 PTH 2.11 VMP 5.974 DPA 9.92 RAP 25.94 ECC 1.3244
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.38 0 5 50 3785.90 -20.69 152.01 249.06 68.09 1 8 56 3185.9 -23.48 144.33
 99.62 2 42 36 3280.04 -20.68 114.82 249.05 68.08 3 37 16 2680.0 -23.47 107.14
 100.00 3 7 27 3200.64 -22.48 109.67 249.80 69.76 4 0 47 2600.6 -25.03 101.80
 100.00 2 23 40 3340.53 -18.91 118.53 248.27 66.41 3 19 20 2740.5 -21.94 111.04
 110.00 6 3 49 2647.53 -32.54 70.94 252.98 78.90 6 47 56 2047.5 -33.73 61.91
 110.00 1 43 47 3466.41 -9.70 122.89 243.17 57.06 2 41 33 2866.4 -13.97 116.40

DIFFERENTIAL CORRECTIONS

TOE -.9513 TRA-1.5605 TC3 .3227 BAU .0859
 RDE -.2028 RRA -.0379 RC3 -.0460 FAU .05140
 FDE 2.1774 FRA 2.7048 FC3-2.2575 BSP 8888
 BOE .9727 BRA 1.5610 BC3 .3260 FSP -1359

MID-COURSE EXECUTION ACCURACY

SGT 2640.5 SGR 270.8 SG3 457.9
 RRT .6158 RRF -.6133 RTF -.9543
 SGB 2654.4 R23 -.0276 R13 -.9545
 SG1 2645.8 SG2 212.9 THA 3.64

ORBIT DETERMINATION ACCURACY

ST 1411.3 SR 262.2 SS 1578.5
 CRT .8998 CRS .9421 CST .9938
 LSA 2128.1 MSA 152.6 SSA 12.7
 EL1 1431.0 EL2 112.8 ALF 9.55

LAUNCH DATE DEC 11 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 355.829

RL 147.29 LAL -.00 LOL 79.02 VL 27.332 GAL 5.18 AZL 86.89 MCA 150.63 SMA 125.79 ECC .19268 INC 3.1146 V1 30.248
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.357 GAP -7.75 AZP 92.71 TAL 157.23 TAP 307.86 RCA 101.56 APO 150.03 V2 34.987
 RC 50.327 GL 20.00 GP 2.08 ZAL 51.94 ZAP 21.15 ETS 356.91 ZAE 161.63 ETE 348.16 ZAC 121.42 ETC 164.20 CLP -21.06

PLANETOCENTRIC CONIC

C3 18.699 VML 4.324 DLA 30.05 RAL 19.94 RAD 6567.8 VEL 11.836 PTH 2.10 VMP 5.651 DPA 10.55 RAP 26.69 ECC 1.3077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.49 23 53 32 3795.09 -21.19 152.91 247.90 68.17 24 56 47 3195.1 -23.96 145.20
 100.51 2 47 48 3245.89 -21.18 112.49 247.89 68.16 3 41 54 2645.9 -23.95 104.79
 79.49 23 53 32 3795.09 -21.19 152.91 247.90 68.17 24 56 47 3195.1 -23.96 145.20
 100.51 2 47 48 3245.89 -21.18 112.49 247.89 68.16 3 41 54 2645.9 -23.95 104.79
 110.00 5 58 11 2648.57 -32.52 71.02 251.65 78.85 6 42 20 2048.6 -33.72 61.99
 110.00 1 46 15 3440.41 -10.66 121.49 242.27 57.33 2 43 35 2840.4 -14.89 114.95

DIFFERENTIAL CORRECTIONS

TOE -.9436 TRA-1.5136 TC3 .3780 BAU .0948
 RDE -.1927 RRA -.0509 RC3 -.0301 FAU .05640
 FDE 2.3778 FRA 2.9002 FC3-2.6113 BSP 9008
 BOE .9631 BRA 1.5145 BC3 .3792 FSP -1523

MID-COURSE EXECUTION ACCURACY

SGT 2653.0 SGR 268.2 SG3 509.2
 RRT .6902 RRF -.6903 RTF -.9570
 SGB 2666.6 R23 -.0363 R13 -.9572
 SG1 2659.5 SG2 193.6 THA 4.01

ORBIT DETERMINATION ACCURACY

ST 1430.6 SR 256.4 SS 1670.4
 CRT .9146 CRS .9525 CST .9942
 LSA 2209.3 MSA 146.6 SSA 11.8
 EL1 1449.8 EL2 102.3 ALF 9.36

LAUNCH DATE DEC 11 1968

FLIGHT TIME 140.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 362.475

RL 147.29 LAL -.00 LOL 79.02 VL 27.396 GAL 4.99 AZL 86.93 MCA 153.82 SMA 126.21 ECC .18779 INC 3.0745 V1 30.248
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.391 GAP -7.17 AZP 92.76 TAL 157.38 TAP 311.21 RCA 102.51 APO 149.91 V2 34.974
 RC 51.881 GL 20.31 GP 2.45 ZAL 52.24 ZAP 23.58 ETS 356.70 ZAE 160.95 ETE 351.18 ZAC 122.06 ETC 163.83 CLP -23.46

PLANETOCENTRIC CONIC

C3 17.777 VML 4.216 DLA 30.26 RAL 19.57 RAD 6567.7 VEL 11.797 PTH 2.09 VMP 5.343 DPA 11.20 RAP 27.28 ECC 1.2926
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.87 23 47 26 3797.96 -21.63 153.31 246.78 68.31 24 50 44 3198.0 -24.38 145.56
 101.13 2 50 56 3219.37 -21.61 110.70 246.78 68.29 3 44 35 2619.4 -24.37 102.96
 78.87 23 47 26 3797.96 -21.63 153.31 246.78 68.31 24 50 44 3198.0 -24.38 145.56
 101.13 2 50 56 3219.37 -21.61 110.70 246.78 68.29 3 44 35 2619.4 -24.37 102.96
 110.00 5 53 37 2647.02 -32.55 70.91 250.38 78.92 6 37 44 2047.0 -33.73 61.87
 110.00 1 47 51 3418.30 -11.47 120.29 241.38 57.58 2 44 50 2818.3 -15.67 113.70

DIFFERENTIAL CORRECTIONS

TOE -.9246 TRA-1.4580 TC3 .4448 BAU .1057
 RDE -.1847 RRA -.0650 RC3 -.0093 FAU .06238
 FDE 2.5918 FRA 3.1136 FC3-3.0377 BSP 9228
 BOE .9428 BRA 1.4594 BC3 .4449 FSP -1723

MID-COURSE EXECUTION ACCURACY

SGT 2642.1 SGR 271.1 SG3 566.3
 RRT .7637 RRF -.7681 RTF -.9598
 SGB 2656.0 R23 -.0494 R13 -.9601
 SG1 2650.2 SG2 174.5 THA 4.50

ORBIT DETERMINATION ACCURACY

ST 1432.6 SR 252.8 SS 1762.2
 CRT .9289 CRS .9626 CST .9943
 LSA 2280.7 MSA 141.4 SSA 10.8
 EL1 1451.8 EL2 92.4 ALF 9.35

LAUNCH DATE DEC 11 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 369.086

RL 147.29 LAL -.00 LOL 79.02 VL 27.453 GAL 4.82 AZL 86.98 MCA 157.02 SMA 126.59 ECC .18330 INC 3.0243 V1 30.248
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.421 GAP -6.60 AZP 92.78 TAL 157.56 TAP 314.57 RCA 103.39 APO 149.80 V2 34.961
 RC 53.536 GL 20.54 GP 2.93 ZAL 52.53 ZAP 26.18 ETS 356.36 ZAE 160.56 ETE 354.15 ZAC 122.50 ETC 163.41 CLP -26.03

PLANETOCENTRIC CONIC

C3 16.922 VML 4.114 DLA 30.37 RAL 19.21 RAD 6567.7 VEL 11.760 PTH 2.08 VMP 5.048 DPA 11.89 RAP 27.68 ECC 1.2785
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.54 23 43 35 3794.27 -21.99 153.19 245.68 68.51 24 46 49 3194.3 -24.71 145.41
 101.46 2 51 56 3200.25 -21.97 109.43 245.67 68.49 3 45 17 2600.2 -24.70 101.65
 78.54 23 43 35 3794.27 -21.99 153.19 245.68 68.51 24 46 49 3194.3 -24.71 145.41
 101.46 2 51 56 3200.25 -21.97 109.43 245.67 68.49 3 45 17 2600.2 -24.70 101.65
 110.00 5 50 28 2641.32 -32.62 70.48 249.14 79.16 6 34 30 2041.3 -33.77 61.43
 110.00 1 48 9 3401.19 -12.09 119.36 240.45 57.78 2 44 50 2801.2 -16.26 112.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7311 TRA-1.2305 TC3 .9115 BAU .2064 SGT 2354.8 SGR 263.1 SG3 605.1 ST 1180.1 SR 237.2 SS 1689.2
 RDE -.1686 RRA -.0702 RC3 .0434 FAU .08046 RRT .7923 RRF -.8269 RTF -.9746 CRT .9264 CRS .9680 CST .9911
 FOE 2.5640 FRA 3.0864 FC3-4.1164 BSP 13486 SGB 2369.5 R23 -.0839 R13 -.9752 LSA 2069.0 MSA 145.9 SSA 7.1
 BOE .7503 BRA 1.2325 BC3 .9126 FSP -2458 SG1 2364.1 SG2 159.9 THA 5.08 EL1 1200.5 EL2 87.8 ALF 10.61

LAUNCH DATE DEC 11 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 375.713

RL 147.29 LAL -.00 LOL 79.02 VL 27.506 GAL 4.66 AZL 87.04 MCA 160.21 SMA 126.94 ECC .17930 INC 2.9587 V1 30.248
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.448 GAP -6.06 AZP 92.78 TAL 157.69 TAP 317.90 RCA 104.18 APO 149.70 V2 34.948
 RC 55.282 GL 20.61 GP 3.58 ZAL 52.73 ZAP 28.95 ETS 355.86 ZAE 160.43 ETE 357.35 ZAC 122.73 ETC 162.91 CLP -28.74

PLANETOCENTRIC CONIC

C3 16.139 VML 4.020 DLA 30.36 RAL 18.99 RAD 6567.6 VEL 11.728 PTH 2.07 VMP 4.773 DPA 12.68 RAP 27.87 ECC 1.2659
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.57 23 42 51 3783.13 -22.24 152.46 244.73 68.79 24 45 54 3183.1 -24.93 144.65
 101.43 2 50 51 3190.26 -22.23 108.79 244.72 68.77 3 44 1 2590.3 -24.92 100.99
 78.57 23 42 51 3783.13 -22.24 152.46 244.73 68.79 24 45 54 3183.1 -24.93 144.65
 101.43 2 50 51 3190.26 -22.23 108.79 244.72 68.77 3 44 1 2590.3 -24.92 100.99
 110.00 5 49 41 2630.32 -32.76 69.65 248.07 79.63 6 33 32 2030.3 -33.84 60.58
 110.00 1 47 6 3391.06 -12.46 118.80 239.59 57.91 2 43 37 2791.1 -16.61 112.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.9064 TRA-1.3778 TC3 .4642 BAU .1008 SGT 2643.5 SGR 314.2 SG3 709.9 ST 1461.3 SR 264.1 SS 1997.1
 RDE -.1816 RRA -.1055 RC3 .0452 FAU .07373 RRT .8966 RRF -.9067 RTF -.9614 CRT .9591 CRS .9821 CST .9951
 FOE 3.1445 FRA 3.6987 FC3-3.9504 BSP 8536 SGB 2662.1 R23 -.0956 R13 -.9619 LSA 2485.3 MSA 129.8 SSA 8.9
 BOE .9244 BRA 1.3818 BC3 .4664 FSP -2072 SG1 2658.5 SG2 138.4 THA 6.10 EL1 1483.2 EL2 73.6 ALF 9.86

LAUNCH DATE DEC 11 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 382.299

RL 147.29 LAL -.00 LOL 79.02 VL 27.553 GAL 4.52 AZL 87.13 MCA 163.40 SMA 127.26 ECC .17564 INC 2.8694 V1 30.248
 RP 108.47 LAP .82 LOP 242.44 VP 37.471 GAP -5.52 AZP 92.78 TAL 157.85 TAP 321.25 RCA 104.91 APO 149.61 V2 34.936
 RC 57.109 GL 20.49 GP 4.50 ZAL 52.88 ZAP 31.95 ETS 355.12 ZAE 160.60 ETE 1.20 ZAC 122.68 ETC 162.29 CLP -31.66

PLANETOCENTRIC CONIC

C3 15.427 VML 3.928 DLA 30.17 RAL 18.83 RAD 6567.6 VEL 11.697 PTH 2.06 VMP 4.511 DPA 13.63 RAP 27.76 ECC 1.2539
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.13 23 46 26 3759.26 -22.37 150.73 243.79 69.21 24 49 5 3159.3 -24.99 142.90
 100.87 2 46 1 3193.14 -22.35 109.06 243.79 69.19 3 39 14 2593.1 -24.98 101.22
 79.13 23 46 26 3759.26 -22.37 150.73 243.79 69.21 24 49 5 3159.3 -24.99 142.90
 100.87 2 46 1 3193.14 -22.35 109.06 243.79 69.19 3 39 14 2593.1 -24.98 101.22
 110.00 5 52 0 2610.11 -32.99 68.12 247.04 80.51 6 35 30 2010.1 -33.95 59.01
 110.00 1 43 33 3390.28 -12.49 118.76 238.66 57.92 2 40 4 2790.3 -16.64 112.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.8671 TRA-1.3157 TC3 .4982 BAU .1044 SGT 2584.8 SGR 362.3 SG3 791.4 ST 1429.5 SR 282.0 SS 2099.4
 RDE -.1876 RRA -.1342 RC3 .0909 FAU .08159 RRT .9362 RRF -.9518 RTF -.9625 CRT .9710 CRS .9895 CST .9953
 FOE 3.4174 FRA 4.0249 FC3-4.5785 BSP 8492 SGB 2610.1 R23 -.1382 R13 -.9634 LSA 2552.4 MSA 124.8 SSA 7.6
 BOE .8871 BRA 1.3225 BC3 .9064 FSP -2331 SG1 2607.0 SG2 126.2 THA 7.49 EL1 1455.5 EL2 66.2 ALF 10.86

LAUNCH DATE DEC 11 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 388.864

RL 147.29 LAL -.00 LOL 79.02 VL 27.595 GAL 4.39 AZL 87.26 MCA 166.59 SMA 127.54 ECC .17236 INC 2.7388 V1 30.248
 RP 108.51 LAP .64 LOP 245.62 VP 37.491 GAP -5.01 AZP 92.66 TAL 158.00 TAP 324.59 RCA 105.56 APO 149.53 V2 34.923
 RC 59.010 GL 20.04 GP 5.87 ZAL 52.93 ZAP 35.22 ETS 354.00 ZAE 161.00 ETE 6.44 ZAC 122.25 ETC 161.46 CLP -34.79

PLANETOCENTRIC CONIC

C3 14.715 VML 3.836 DLA 29.69 RAL 18.85 RAD 6567.6 VEL 11.666 PTH 2.05 VMP 4.268 DPA 14.92 RAP 27.26 ECC 1.2422
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.69 0 2 17 3710.84 -22.27 147.09 242.94 69.85 1 4 7 3110.8 -24.82 139.24
 99.31 2 34 14 3220.38 -22.26 111.05 242.94 69.83 3 27 54 2620.4 -24.81 103.19
 100.00 3 8 58 3109.34 -24.90 103.64 243.77 72.31 4 0 47 2509.3 -26.69 95.52
 100.00 2 10 13 3297.12 -20.07 115.82 242.02 67.37 3 5 11 2697.1 -22.96 108.22
 110.00 5 59 10 2575.77 -33.35 65.50 246.07 82.02 6 42 6 1975.8 -34.09 56.34
 110.00 1 36 31 3403.45 -12.01 119.48 237.67 57.75 2 33 14 2803.4 -16.18 112.86

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.8132 TRA-1.2481 TC3 .5240 BAU .1077 SGT 2498.4 SGR 445.4 SG3 880.5 ST 1374.8 SR 317.0 SS 2191.5
 RDE -.2034 RRA -.1759 RC3 .1580 FAU .09031 RRT .9585 RRF -.9796 RTF -.9631 CRT .9806 CRS .9948 CST .9953
 FOE 3.6767 FRA 4.3946 FC3-5.3132 BSP 8407 SGB 2537.8 R23 -.1900 R13 -.9648 LSA 2603.6 MSA 119.3 SSA 6.3
 BOE .8583 BRA 1.2609 BC3 .5473 FSP -2619 SG1 2534.7 SG2 125.2 THA 9.72 EL1 1409.6 EL2 60.5 ALF 12.77

LAUNCH DATE DEC 11 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

RL 147.29 LAL -.00 LOL 79.02 VL 27.633 GAL 4.28 AZL 87.47 MCA 169.77 SMA 127.80 ECC .16944 INC 2.5294 V1 30.248
 RP 108.55 LAP .45 LOP 248.80 VP 37.507 GAP -4.50 AZP 92.49 TAL 158.14 TAP 327.91 RCA 106.15 APO 149.45 V2 34.911
 RC 60.976 GL 18.98 GP 8.11 ZAL 52.79 ZAP 38.87 ETS 352.20 ZAE 161.42 ETE 14.56 ZAC 121.28 ETC 160.23 CLP -38.14

PLANETOCENTRIC CONIC

C3 13.975 VHL 3.738 DLA 28.66 RAL 19.17 RAD 6567.6 VEL 11.634 PTH 2.04 VHP 4.050 DPA 16.90 RAP 26.18 ECC 1.2300
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.41 0 41 21 3577.97 -21.79 137.11 242.19 70.91 1 40 59 2978.0 -24.19 129.23
 94.59 1 57 47 3330.44 -21.77 118.97 242.19 70.90 2 53 17 2730.4 -24.18 111.10
 100.00 3 53 0 2959.75 -27.19 93.35 243.90 77.08 4 42 20 2359.8 -28.70 84.87
 100.00 1 28 48 3423.89 -16.56 123.60 239.94 64.76 2 25 52 2823.9 -19.83 116.33
 110.00 6 14 27 2516.93 -33.81 60.97 245.13 84.66 6 56 24 1916.9 -34.18 51.75
 110.00 1 23 51 3439.47 -10.70 121.44 236.60 57.34 2 21 10 2839.5 -14.93 114.89

DIFFERENTIAL CORRECTIONS

TDE -.7423 TRA-1.1766 TC3 .5344 BAU .1116
 RDE -.2360 RRA -.2442 RC3 .2668 FAU .09963
 FDE 3.8695 FRA 4.8118 FC3-6.1722 BSP 8267
 BDE .7789 BRA 1.2016 BC3 .5973 FSP -2929

MID-COURSE EXECUTION ACCURACY

SGT 2382.6 SGR 593.8 SG3 974.1
 RRT .9668 RRF -.9935 RTF -.9628
 SGB 2455.5 R23 -.2312 R13 -.9662
 SGI 2451.0 SG2 147.6 TMA 13.60

ORBIT DETERMINATION ACCURACY

ST 1294.0 SR 383.8 SS 2255.8
 CRT .9877 CRS .9981 CST .9955
 LSA 2626.3 MSA 111.7 SSA 5.0
 EL1 1348.5 EL2 57.5 ALF 16.36

LAUNCH DATE DEC 11 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.29 LAL -.00 LOL 79.02 VL 27.667 GAL 4.18 AZL 87.87 MCA 172.95 SMA 128.03 ECC .16686 INC 2.1330 V1 30.248
 RP 108.58 LAP .26 LOP 251.98 VP 37.521 GAP -4.01 AZP 92.12 TAL 158.26 TAP 331.22 RCA 106.67 APO 149.39 V2 34.900
 RC 63.000 GL 16.48 GP 12.33 ZAL 52.27 ZAP 43.18 ETS 348.92 ZAE 160.97 ETE 28.68 ZAC 119.26 ETC 158.14 CLP -41.72

PLANETOCENTRIC CONIC

C3 13.109 VHL 3.621 DLA 26.32 RAL 20.19 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 3.878 DPA 20.61 RAP 24.01 ECC 1.2157
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 56 52 3134.18 -26.89 106.09 243.30 80.79 3 49 6 2534.2 -27.89 97.57
 90.00 23 46 24 3746.33 -14.06 146.11 239.11 65.16 24 48 50 3146.3 -17.29 138.93
 100.00 4 47 10 2778.56 -29.27 80.29 243.66 83.64 5 33 29 2178.6 -29.84 71.54
 100.00 0 42 42 3577.18 -11.91 132.60 238.02 62.38 1 42 20 2977.2 -15.51 125.67
 110.00 6 45 46 2407.50 -34.18 52.45 244.00 89.69 7 25 53 1807.5 -33.85 43.22
 110.00 1 0 36 3521.00 -7.67 125.81 235.49 56.59 1 59 17 2921.0 -12.01 119.41

DIFFERENTIAL CORRECTIONS

TDE -.6477 TRA-1.1052 TC3 .5206 BAU .1235
 RDE -.3007 RRA -.3781 RC3 .4746 FAU .10796
 FDE 3.8534 FRA 5.2765 FC3-7.1302 BSP 8094
 BDE .7141 BRA 1.1681 BC3 .7045 FSP -3198

MID-COURSE EXECUTION ACCURACY

SGT 2236.1 SGR 888.9 SG3 1060.4
 RRT .9659 RRF -.9987 RTF -.9610
 SGB 2406.3 R23 -.2383 R13 -.9699
 SGI 2396.7 SG2 214.8 TMA 21.18

ORBIT DETERMINATION ACCURACY

ST 1180.5 SR 516.3 SS 2247.9
 CRT .9927 CRS .9995 CST .9959
 LSA 2589.2 MSA 97.5 SSA 3.8
 EL1 1287.2 EL2 57.1 ALF 23.52

LAUNCH DATE DEC 11 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.29 LAL -.00 LOL 79.02 VL 27.696 GAL 4.10 AZL 88.91 MCA 176.13 SMA 128.23 ECC .16460 INC 1.0896 V1 30.248
 RP 108.62 LAP .07 LOP 255.15 VP 37.533 GAP -3.53 AZP 91.09 TAL 158.37 TAP 334.50 RCA 107.12 APO 149.34 V2 34.889
 RC 65.076 GL 8.76 GP 22.88 ZAL 50.90 ZAP 49.69 ETS 341.51 ZAE 155.10 ETE 52.68 ZAC 114.11 ETC 153.73 CLP -45.40

PLANETOCENTRIC CONIC

C3 11.914 VHL 3.452 DLA 19.17 RAL 23.36 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 3.877 DPA 29.97 RAP 18.59 ECC 1.1961
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 54 57 2741.52 -27.92 77.57 242.73 94.93 5 40 39 2141.5 -26.94 69.04
 90.00 22 13 37 4098.25 -3.24 166.30 237.51 61.85 23 21 56 3498.3 -6.98 159.62
 100.00 6 28 8 2441.02 -29.20 55.31 242.59 96.71 7 8 49 1841.0 -27.96 46.73
 100.00 23 23 7 3873.98 -2.12 149.19 236.89 60.18 24 27 41 3274.0 -6.07 142.64
 110.00 8 2 1 2147.32 -32.45 32.41 241.98 101.39 8 37 48 1547.3 -30.54 23.71
 110.00 0 9 40 3740.45 .67 137.32 235.15 55.82 1 12 1 3140.4 -3.81 131.12

DIFFERENTIAL CORRECTIONS

TDE -.5016 TRA-1.0426 TC3 .4933 BAU .1805
 RDE -.4117 RRA -.7384 RC3 1.0205 FAU .10833
 FDE 3.0206 FRA 5.5756 FC3-7.8719 BSP 8625
 BDE .6489 BRA 1.2776 BC3 1.1335 FSP -3225

MID-COURSE EXECUTION ACCURACY

SGT 2041.2 SGR 1627.0 SG3 1060.6
 RRT .9595 RRF -.9999 RTF -.9570
 SGB 2610.3 R23 -.1829 R13 -.9831
 SGI 2585.1 SG2 361.9 TMA 38.30

ORBIT DETERMINATION ACCURACY

ST 997.7 SR 786.8 SS 1947.7
 CRT .9977 CRS .9999 CST .9984
 LSA 2324.9 MSA 52.7 SSA 3.5
 EL1 1269.9 EL2 41.8 ALF 38.24

LAUNCH DATE DEC 11 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

RL 147.29 LAL -.00 LOL 79.02 VL 27.722 GAL 4.03 AZL 99.40 MCA 179.30 SMA 128.41 ECC .16268 INC 9.4119 V1 30.248
 RP 108.65 LAP -.11 LOP 258.33 VP 37.542 GAP -3.07 AZP 80.60 TAL 158.43 TAP 337.73 RCA 107.52 APO 149.30 V2 34.878
 RC 67.198 GL -50.97 GP 71.57 ZAL 68.34 ZAP 75.45 ETS 316.73 ZAE 109.29 ETE 70.38 ZAC 89.18 ETC 140.64 CLP -37.38

PLANETOCENTRIC CONIC

C3 33.795 VHL 5.813 DLA -37.39 RAL 44.05 RAD 6568.3 VEL 12.457 PTH 2.25 VHP 8.748 DPA 69.41 RAP 326.44 ECC 1.5562
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.50 11 56 35 1589.40 21.05 17.74 283.78 121.64 12 23 4 989.4 25.08 10.64
 115.50 17 57 2 5742.21 21.07 270.03 283.79 121.63 19 32 45 5142.2 25.09 262.93
 64.50 11 56 35 1589.40 21.05 17.74 283.78 121.64 12 23 4 989.4 25.08 10.64
 115.50 17 57 2 5742.21 21.07 270.03 283.79 121.63 19 32 45 5142.2 25.09 262.93
 64.50 11 56 35 1589.40 21.05 17.74 283.78 121.64 12 23 4 989.4 25.08 10.64
 115.50 17 57 2 5742.21 21.07 270.03 283.79 121.63 19 32 45 5142.2 25.09 262.93

DIFFERENTIAL CORRECTIONS

TDE -.3412 TRA-1.5939 TC3 .2314 BAU .4228
 RDE .4675 RRA-2.8591 RC3 .9084 FAU .02348
 FDE -.2681 FRA 2.1648 FC3 -.6578 BSP 18693
 BDE .5788 BRA 3.2734 BC3 .9357 FSP -1092

MID-COURSE EXECUTION ACCURACY

SGT 8023.5 SGR 3728.5 SG3 242.3
 RRT .9465 RRF -.9995 RTF -.9561
 SGB 4242.8 R23 -.0410 R13 -.9992
 SGI 4202.4 SG2 579.5 TMA 62.24

ORBIT DETERMINATION ACCURACY

ST 681.9 SR 1159.9 SS 641.1
 CRT .6023 CRS .9958 CST .6729
 LSA 1400.9 MSA 508.7 SSA .3
 EL1 1246.5 EL2 506.5 ALF 66.37

LAUNCH DATE DEC 11 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 421.375

RL 147.29 LAL -0.00 LOL 79.02 VL 27.744 GAL 3.97 AZL 85.04 MCA 182.50 SMA 128.56 ECC .16099 INC 6.9533 V1 30.248
 RP 108.68 LAP -0.30 LOP 261.50 VP 37.549 GAP -2.60 AZP 96.95 TAL 158.51 TAP 341.01 RCA 107.86 APO 149.26 V2 34.867
 RC 69.360 GL 43.86 GP -36.22 ZAL 64.05 ZAP 61.49 ETS 26.32 ZAE 139.81 ETE 291.08 ZAC 124.34 ETC 190.43 CLP -53.72

PLANETOCENTRIC CONIC

C3 23.410 VML 4.838 DLA 49.74 RAL 1.63 RAD 6568.0 VEL 12.033 PTH 2.15 VMP 3.952 DPA -24.90 RAP 41.56 ECC 1.3853
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.23 19 54 59 4331.76 -31.05 203.57 241.00 48.96 21 7 10 3731.8 -36.09 196.52
 132.77 4 20 16 2816.99 -31.04 84.20 240.99 48.95 5 7 13 2217.0 -36.08 77.16
 47.23 19 54 59 4331.76 -31.05 203.57 241.00 48.96 21 7 10 3731.8 -36.09 196.52
 132.77 4 20 16 2816.99 -31.04 84.20 240.99 48.95 5 7 13 2217.0 -36.08 77.16
 47.23 19 54 59 4331.76 -31.05 203.57 241.00 48.96 21 7 10 3731.8 -36.09 196.52
 132.77 4 20 16 2816.99 -31.04 84.20 240.99 48.95 5 7 13 2217.0 -36.08 77.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.9858 TRA -.7181 TC3 .1102 BAU .2198 SGT 1762.3 SGR 2608.2 SG3 1041.6 ST 1232.3 SR 2241.0 SS 3478.3
 RDE 1.8674 RRA .6598 RC3 -.6935 FAU .08610 RRT -.9234 RRF .9995 RTF -.9343 CRT -.9866 CRS -.9999 CST .9887
 FDE 8.4694 FRA 3.2404 FC3-3.1840 B9P 9324 SGB 3147.8 R23 -.0901 R13 .9958 LSA 4313.4 MSA 183.4 SSA 1.3
 BOE 2.1117 BRA .9752 BC3 .7022 F9P -2957 SG1 3095.7 SG2 570.0 TMA 123.23 EL1 2551.4 EL2 176.3 ALF 118.63

LAUNCH DATE DEC 11 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 427.808

RL 147.29 LAL -0.00 LOL 79.02 VL 27.763 GAL 3.92 AZL 85.04 MCA 185.67 SMA 128.69 ECC .15962 INC 4.9556 V1 30.248
 RP 108.72 LAP -0.49 LOP 264.67 VP 37.553 GAP -2.16 AZP 94.93 TAL 158.53 TAP 344.20 RCA 108.15 APO 149.23 V2 34.858
 RC 71.560 GL 35.28 GP -18.42 ZAL 59.57 ZAP 60.89 ETS 12.98 ZAE 157.88 ETE 294.59 ZAC 122.64 ETC 176.89 CLP -59.16

PLANETOCENTRIC CONIC

C3 17.163 VML 4.143 DLA 42.78 RAL 8.97 RAD 6567.7 VEL 11.771 PTH 2.08 VMP 3.260 DPA -9.49 RAP 31.97 ECC 1.2825
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.48 20 58 1 4171.68 -30.08 187.68 240.25 58.01 22 7 33 3571.7 -34.06 179.90
 123.52 4 15 46 2829.37 -30.06 84.53 240.24 58.00 5 2 56 2229.4 -34.05 76.75
 56.48 20 58 1 4171.68 -30.08 187.68 240.25 58.01 22 7 33 3571.7 -34.06 179.90
 123.52 4 15 46 2829.37 -30.06 84.53 240.24 58.00 5 2 56 2229.4 -34.05 76.75
 56.48 20 58 1 4171.68 -30.08 187.68 240.25 58.01 22 7 33 3571.7 -34.06 179.90
 123.52 4 15 46 2829.37 -30.06 84.53 240.24 58.00 5 2 56 2229.4 -34.05 76.75

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.5158 TRA -.6145 TC3 .0850 BAU .1327 SGT 1361.1 SGR 1445.4 SG3 1492.7 ST 793.2 SR 1123.4 SS 3649.5
 RDE -.7929 RRA .4311 RC3 -.5748 FAU .13035 RRT -.8887 RRF .9989 RTF -.9037 CRT -.9725 CRS -.9997 CST .9776
 FDE 9.0958 FRA 5.4849 FC3-6.9785 B9P 6582 SGB 1885.3 R23 -.1865 R13 .9819 LSA 3896.4 MSA 166.9 SSA 2.0
 BOE .9458 BRA .7507 BC3 .5785 F9P -4529 SG1 1929.5 SG2 467.4 TMA 133.06 EL1 1366.8 EL2 151.7 ALF 124.97

LAUNCH DATE DEC 11 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 434.222

RL 147.29 LAL -0.00 LOL 79.02 VL 27.779 GAL 3.89 AZL 85.61 MCA 188.84 SMA 128.80 ECC .15852 INC 4.3900 V1 30.248
 RP 108.74 LAP -0.67 LOP 267.84 VP 37.556 GAP -1.72 AZP 94.34 TAL 158.52 TAP 347.37 RCA 108.38 APO 149.22 V2 34.848
 RC 73.792 GL 32.40 GP -12.53 ZAL 58.23 ZAP 65.00 ETS 8.07 ZAE 164.77 ETE 291.35 ZAC 119.95 ETC 172.77 CLP -64.34

PLANETOCENTRIC CONIC

C3 15.675 VML 3.959 DLA 40.33 RAL 11.02 RAD 6567.6 VEL 11.707 PTH 2.06 VMP 3.052 DPA -4.86 RAP 27.81 ECC 1.2580
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.99 21 21 18 4109.29 -29.22 181.68 239.83 60.86 22 29 48 3509.3 -32.86 173.78
 120.01 4 8 50 2850.31 -29.21 85.76 239.82 60.85 4 56 20 2250.3 -32.85 77.86
 59.99 21 21 18 4109.29 -29.22 181.68 239.83 60.86 22 29 48 3509.3 -32.86 173.78
 120.01 4 8 50 2850.31 -29.21 85.76 239.82 60.85 4 56 20 2250.3 -32.85 77.86
 59.99 21 21 18 4109.29 -29.22 181.68 239.83 60.86 22 29 48 3509.3 -32.86 173.78
 120.01 4 8 50 2850.31 -29.21 85.76 239.82 60.85 4 56 20 2250.3 -32.85 77.86

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2866 TRA -.4852 TC3 -.0780 BAU .0942 SGT 1012.1 SGR 1037.3 SG3 1688.4 ST 498.4 SR 794.4 SS 3692.2
 RDE .5349 RRA .3135 RC3 -.4425 FAU .15975 RRT -.8073 RRF .9968 RTF -.8330 CRT -.9354 CRS -.9992 CST .9486
 FDE 9.3331 FRA 6.4649 FC3-8.8230 B9P 4949 SGB 1449.3 R23 -.2551 R13 .9648 LSA 3806.1 MSA 160.3 SSA 3.0
 BOE .6068 BRA .5777 BC3 .4493 F9P -5217 SG1 1377.8 SG2 449.7 TMA 134.13 EL1 925.6 EL2 151.3 ALF 121.34

LAUNCH DATE DEC 11 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 440.614

RL 147.29 LAL -0.00 LOL 79.02 VL 27.792 GAL 3.88 AZL 85.88 MCA 192.01 SMA 128.89 ECC .15768 INC 4.1212 V1 30.248
 RP 108.77 LAP -0.86 LOP 271.01 VP 37.558 GAP -1.29 AZP 94.03 TAL 158.48 TAP 350.49 RCA 108.57 APO 149.22 V2 34.839
 RC 76.053 GL 30.97 GP -9.62 ZAL 57.56 ZAP 70.03 ETS 5.52 ZAE 168.68 ETE 279.31 ZAC 117.29 ETC 170.86 CLP -69.73

PLANETOCENTRIC CONIC

C3 14.995 VML 3.872 DLA 39.12 RAL 12.02 RAD 6567.6 VEL 11.678 PTH 2.05 VMP 2.926 DPA -3.07 RAP 24.65 ECC 1.2468
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.80 21 33 40 4075.58 -28.74 178.54 239.64 62.23 22 41 36 3475.6 -32.21 170.59
 118.20 4 4 26 2864.08 -28.72 86.62 239.63 62.21 4 52 10 2264.1 -32.19 78.67
 61.80 21 33 40 4075.58 -28.74 178.54 239.64 62.23 22 41 36 3475.6 -32.21 170.59
 118.20 4 4 26 2864.08 -28.72 86.62 239.63 62.21 4 52 10 2264.1 -32.19 78.67
 61.80 21 33 40 4075.58 -28.74 178.54 239.64 62.23 22 41 36 3475.6 -32.21 170.59
 118.20 4 4 26 2864.08 -28.72 86.62 239.63 62.21 4 52 10 2264.1 -32.19 78.67

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.0815 TRA -.3380 TC3 -.2643 BAU .0887 SGT 886.9 SGR 859.1 SG3 1826.8 ST 228.0 SR 650.7 SS 3738.3
 RDE .4290 RRA .2490 RC3 -.3550 FAU .17378 RRT -.5462 RRF .9927 RTF -.6115 CRT -.7014 CRS -.9983 CST .7417
 FDE 9.6064 FRA 7.1251 FC3-10.0327 B9P 3596 SGB 1084.5 R23 -.2788 R13 .9547 LSA 3798.1 MSA 157.5 SSA 4.0
 BOE .4367 BRA .4198 BC3 .4426 F9P -5695 SG1 966.7 SG2 491.5 TMA 125.21 EL1 671.2 EL2 157.5 ALF 104.63

LAUNCH DATE DEC 11 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC
 RL 147.29 LAL -1.00 LOL 79.02 VL 27.802 GAL 3.87 AZL 86.04 MCA 195.18 SMA 128.96 ECC .15709 INC 3.9634 VI 30.248
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.558 GAP -.87 AZP 93.83 TAL 158.40 TAP 353.58 RCA 108.70 APO 149.22 V2 34.831
 RC 78.340 GL 30.10 GP -7.87 ZAL 57.11 ZAP 75.45 ETS 3.91 ZAE 170.49 ETE 257.43 ZAC 114.61 ETC 169.76 CLP -75.31

DISTANCE 446.984

PLANETOCENTRIC CONIC
 C3 14.616 WML 3.823 DLA 38.40 RAL 12.68 RAD 6567.6 VEL 11.662 PTH 2.05 WHP 2.839 DPA -2.42 RAP 21.76 ECC 1.2405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.90 21 41 35 4054.65 -28.43 176.62 239.62 63.01 22 49 10 3454.7 -31.80 168.65
 117.10 4 1 46 2873.56 -28.42 87.23 239.61 63.00 4 49 39 2273.6 -31.79 79.26
 62.90 21 41 35 4054.65 -28.43 176.62 239.62 63.01 22 49 10 3454.7 -31.80 168.65
 117.10 4 1 46 2873.56 -28.42 87.23 239.61 63.00 4 49 39 2273.6 -31.79 79.26
 62.90 21 41 35 4054.65 -28.43 176.62 239.62 63.01 22 49 10 3454.7 -31.80 168.65
 117.10 4 1 46 2873.56 -28.42 87.23 239.61 63.00 4 49 39 2273.6 -31.79 79.26

DIFFERENTIAL CORRECTIONS
 TDE .1245 TRA -.1770 TC3 -.4823 BAU .1102 SGT 534.3 SGR 721.4 SG3 1928.7 ST 212.8 SR 572.3 SS 3768.5
 RDE .3735 RRA .2073 RC3 -.2921 FAU .18419 RRT .1364 RRF .9860 RTF .0752 CRT .7593 CRS -.9969 CST -.7060
 FDE 9.8266 FRA 7.6108 FC-10.9102 BSP 2455 SGB 897.7 R23 .2087 R13 .9655 LSA 3814.4 MSA 156.7 SSA 4.9
 BOE .3937 BRA .2726 BC3 .5639 FSP -6069 SG1 729.1 SG2 523.7 TMA 77.94 EL1 595.9 EL2 133.0 ALF 73.38

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 11 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC
 RL 147.29 LAL -1.00 LOL 79.02 VL 27.810 GAL 3.88 AZL 86.14 MCA 196.35 SMA 129.02 ECC .15673 INC 3.8592 VI 30.248
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.556 GAP -.46 AZP 93.66 TAL 158.28 TAP 356.63 RCA 108.80 APO 149.24 V2 34.824
 RC 80.651 GL 29.49 GP -6.67 ZAL 56.73 ZAP 81.09 ETS 2.77 ZAE 169.98 ETE 232.27 ZAC 111.88 ETC 169.03 CLP -81.02

DISTANCE 453.334

PLANETOCENTRIC CONIC
 C3 14.394 WML 3.794 DLA 37.93 RAL 13.21 RAD 6567.6 VEL 11.652 PTH 2.05 WHP 2.783 DPA -2.36 RAP 18.96 ECC 1.2369
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.64 21 47 23 4040.65 -28.21 175.34 239.73 63.52 22 54 43 3440.7 -31.52 167.35
 116.36 4 0 14 2880.77 -28.20 87.70 239.73 63.51 4 48 15 2280.8 -31.51 79.71
 63.64 21 47 23 4040.65 -28.21 175.34 239.73 63.52 22 54 43 3440.7 -31.52 167.35
 116.36 4 0 14 2880.77 -28.20 87.70 239.73 63.51 4 48 15 2280.8 -31.51 79.71
 63.64 21 47 23 4040.65 -28.21 175.34 239.73 63.52 22 54 43 3440.7 -31.52 167.35
 116.36 4 0 14 2880.77 -28.20 87.70 239.73 63.51 4 48 15 2280.8 -31.51 79.71

DIFFERENTIAL CORRECTIONS
 TDE .3345 TRA -.0057 TC3 -.7245 BAU .1470 SGT 746.7 SGR 640.6 SG3 1994.5 ST 505.4 SR 522.2 SS 3771.2
 RDE .3392 RRA .1765 RC3 -.2419 FAU .19146 RRT .7443 RRF .9759 RTF .7087 CRT .9795 CRS -.9950 CST -.9547
 FDE 9.9335 FRA 7.9467 FC-11.5159 BSP 1963 SGB 983.8 R23 .4339 R13 .8745 LSA 3837.4 MSA 157.0 SSA 5.8
 BOE .4764 BRA .1766 BC3 .7638 FSP -6354 SG1 920.6 SG2 347.0 TMA 39.16 EL1 723.0 EL2 73.6 ALF 45.96

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 11 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC
 RL 147.29 LAL -1.00 LOL 79.02 VL 27.815 GAL 3.91 AZL 86.22 MCA 201.52 SMA 129.05 ECC .15661 INC 3.7849 VI 30.248
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.554 GAP -.05 AZP 93.52 TAL 158.11 TAP 359.64 RCA 108.84 APO 149.26 V2 34.816
 RC 82.981 GL 29.00 GP -5.78 ZAL 56.36 ZAP 86.81 ETS 1.90 ZAE 167.62 ETE 213.70 ZAC 109.17 ETC 168.50 CLP -86.79

DISTANCE 459.662

PLANETOCENTRIC CONIC
 C3 14.275 WML 3.778 DLA 37.58 RAL 13.71 RAD 6567.6 VEL 11.647 PTH 2.04 WHP 2.755 DPA -2.61 RAP 16.23 ECC 1.2349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.18 21 52 9 4030.76 -28.03 174.43 239.97 63.86 22 59 19 3430.8 -31.29 166.44
 115.82 3 59 28 2886.99 -28.01 88.10 239.97 63.85 4 47 35 2287.0 -31.28 80.11
 64.18 21 52 9 4030.76 -28.03 174.43 239.97 63.86 22 59 19 3430.8 -31.29 166.44
 115.82 3 59 28 2886.99 -28.01 88.10 239.97 63.85 4 47 35 2287.0 -31.28 80.11
 64.18 21 52 9 4030.76 -28.03 174.43 239.97 63.86 22 59 19 3430.8 -31.29 166.44
 115.82 3 59 28 2886.99 -28.01 88.10 239.97 63.85 4 47 35 2287.0 -31.28 80.11

DIFFERENTIAL CORRECTIONS
 TDE .5466 TRA .1730 TC3 -.9829 BAU .1913 SGT 1161.2 SGR 579.5 SG3 2025.0 ST 835.1 SR 486.7 SS 3748.4
 RDE .3157 RRA .1518 RC3 -.1972 FAU .19470 RRT .8972 RRF .9617 RTF .8913 CRT .9980 CRS -.9925 CST -.9833
 FDE 9.9141 FRA 8.1569 FC-11.8084 BSP 2636 SGB 1297.8 R23 .2900 R13 .9192 LSA 3867.8 MSA 158.0 SSA 6.5
 BOE .6312 BRA .2302 BC3 1.0025 FSP -6505 SG1 1276.7 SG2 232.7 TMA 25.01 EL1 966.2 EL2 26.6 ALF 30.21

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 11 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC
 RL 147.29 LAL -1.00 LOL 79.02 VL 27.818 GAL 3.94 AZL 86.27 MCA 204.69 SMA 129.08 ECC .15671 INC 3.7288 VI 30.248
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.550 GAP .35 AZP 93.39 TAL 157.91 TAP 2.60 RCA 108.85 APO 149.30 V2 34.810
 RC 85.328 GL 28.58 GP -5.08 ZAL 55.98 ZAP 92.52 ETS 1.21 ZAE 164.34 ETE 202.43 ZAC 106.51 ETC 168.08 CLP -92.53

DISTANCE 465.968

PLANETOCENTRIC CONIC
 C3 14.233 WML 3.773 DLA 37.31 RAL 14.22 RAD 6567.6 VEL 11.646 PTH 2.04 WHP 2.752 DPA -3.02 RAP 13.61 ECC 1.2342
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.61 21 56 23 4023.65 -27.86 173.75 240.33 64.10 23 3 27 3423.6 -31.10 165.76
 115.39 3 59 17 2892.81 -27.85 88.48 240.33 64.09 4 47 30 2292.8 -31.08 80.50
 64.61 21 56 23 4023.65 -27.86 173.75 240.33 64.10 23 3 27 3423.6 -31.10 165.76
 115.39 3 59 17 2892.81 -27.85 88.48 240.33 64.09 4 47 30 2292.8 -31.08 80.50
 64.61 21 56 23 4023.65 -27.86 173.75 240.33 64.10 23 3 27 3423.6 -31.10 165.76
 115.39 3 59 17 2892.81 -27.85 88.48 240.33 64.09 4 47 30 2292.8 -31.08 80.50

DIFFERENTIAL CORRECTIONS
 TDE .7564 TRA .3557 TC3 -1.2457 BAU .2309 SGT 1632.3 SGR 528.3 SG3 2014.3 ST 1167.1 SR 457.5 SS 3683.0
 RDE .2972 RRA .1294 RC3 -.1579 FAU .19581 RRT .9280 RRF .9420 RTF .9468 CRT .9998 CRS -.9894 CST -.9912
 FDE 9.7170 FRA 8.1967 FC-11.9101 BSP 3956 SGB 1715.0 R23 .1406 R13 .9521 LSA 3887.2 MSA 159.1 SSA 7.1
 BOE .8127 BRA .3785 BC3 1.2557 FSP -6597 SG1 1705.0 SG2 191.0 TMA 18.90 EL1 1253.5 EL2 8.8 ALF 21.40

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 11 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 472.254

RL 147.29 LAL -.00 LOL 79.02 VL 27.819 GAL 3.99 AZL 86.32 MCA 207.85 SMA 129.08 ECC .15703 INC 3.6848 V1 30.248
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.545 GAP .75 AZP 93.26 TAL 157.67 TAP 5.52 RCA 108.81 APO 149.35 V2 34.804
 RC 87.691 GL 28.19 GP -4.50 ZAL 55.56 ZAP 98.14 ETS .65 ZAE 160.71 ETE 195.62 ZAC 103.99 ETC 167.74 CLP -98.16

PLANETOCENTRIC CONIC

C3 14.256 VHL 3.776 DLA 37.09 RAL 14.76 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 2.774 DPA -3.51 RAP 11.13 ECC 1.2346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.98 22 0 26 4018.50 -27.69 173.24 240.81 64.27 23 7 24 3418.5 -30.91 165.26
 115.02 3 59 34 2898.66 -27.68 88.87 240.81 64.26 4 47 53 2298.7 -30.90 80.89
 64.98 22 0 26 4018.50 -27.69 173.24 240.81 64.27 23 7 24 3418.5 -30.91 165.26
 115.02 3 59 34 2898.66 -27.68 88.87 240.81 64.26 4 47 53 2298.7 -30.90 80.89
 64.98 22 0 26 4018.50 -27.69 173.24 240.81 64.27 23 7 24 3418.5 -30.91 165.26
 115.02 3 59 34 2898.66 -27.68 88.87 240.81 64.26 4 47 53 2298.7 -30.90 80.89

DIFFERENTIAL CORRECTIONS

TOE .9607 TRA .5399 TC3-1.5062 BAU .2880
 RDE .2829 RRA .1097 RC3 -.1191 FAU .19210
 FDE 9.4129 FRA 8.1461 FC-11.6659 BSP 5461
 BOE 1.0015 BRA .5510 BC3 1.5109 FSP -6517

MID-COURSE EXECUTION ACCURACY

SGT 2115.2 SGR 485.7 SCS 1973.6
 RRT .9174 RNF .9156 RTF .9678
 SGB 2170.2 RPS .0518 R13 .9689
 SGI 2162.0 SGE 189.1 TMA 11.99

ORBIT DETERMINATION ACCURACY

ST 1490.4 SR 433.8 SS 3600.8
 CRT .9979 CRS -.9856 CST -.9943
 LSA 3917.9 MSA 160.6 SSA 7.8
 EL1 1552.0 EL2 27.3 ALF 16.20

LAUNCH DATE DEC 11 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 478.519

RL 147.29 LAL -.00 LOL 79.02 VL 27.818 GAL 4.06 AZL 86.35 MCA 211.02 SMA 129.08 ECC .15756 INC 3.6492 V1 30.248
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.540 GAP 1.14 AZP 93.13 TAL 157.38 TAP 8.39 RCA 108.74 APO 149.41 V2 34.799
 RC 90.065 GL 27.81 GP -4.01 ZAL 55.11 ZAP 103.57 ETS .80 ZAE 157.02 ETE 191.27 ZAC 101.67 ETC 167.46 CLP-103.60

PLANETOCENTRIC CONIC

C3 14.336 VHL 3.786 DLA 38.89 RAL 15.35 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 2.819 DPA -4.01 RAP 8.86 ECC 1.2359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.30 22 4 29 4014.70 -27.52 172.84 241.41 64.40 23 11 24 3414.7 -30.72 164.86
 114.70 4 0 12 2904.93 -27.50 89.28 241.41 64.39 4 48 37 2304.9 -30.71 81.31
 65.30 22 4 29 4014.70 -27.52 172.84 241.41 64.40 23 11 24 3414.7 -30.72 164.86
 114.70 4 0 12 2904.93 -27.50 89.28 241.41 64.39 4 48 37 2304.9 -30.71 81.31
 65.30 22 4 29 4014.70 -27.52 172.84 241.41 64.40 23 11 24 3414.7 -30.72 164.86
 114.70 4 0 12 2904.93 -27.50 89.28 241.41 64.39 4 48 37 2304.9 -30.71 81.31

DIFFERENTIAL CORRECTIONS

TOE 1.1544 TRA .7220 TC3-1.7552 BAU .3368
 RDE .2708 RRA .0911 RC3 -.0831 FAU .18809
 FDE 8.9820 FRA 7.9724 FC-11.2381 BSP 7003
 BOE 1.1858 BRA .7277 BC3 1.7572 FSP -6365

MID-COURSE EXECUTION ACCURACY

SGT 2585.4 SGR 449.0 SCS 1902.2
 RRT .8916 RNF .8807 RTF .9779
 SGB 2624.1 RPS .0078 R13 .9780
 SGI 2616.4 SGE 200.9 TMA 8.85

ORBIT DETERMINATION ACCURACY

ST 1794.8 SR 413.0 SS 3489.4
 CRT .9944 CRS -.9808 CST -.9959
 LSA 3942.3 MSA 162.1 SSA 8.3
 EL1 1841.2 EL2 42.7 ALF 12.90

LAUNCH DATE DEC 11 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 484.762

RL 147.29 LAL -.00 LOL 79.02 VL 27.816 GAL 4.13 AZL 86.38 MCA 214.18 SMA 129.06 ECC .15831 INC 3.6197 V1 30.248
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.534 GAP 1.53 AZP 93.00 TAL 157.05 TAP 11.23 RCA 108.63 APO 149.49 V2 34.795
 RC 92.449 GL 27.42 GP -3.59 ZAL 54.61 ZAP 108.76 ETS 359.83 ZAE 153.42 ETE 188.34 ZAC 99.60 ETC 167.22 CLP-108.80

PLANETOCENTRIC CONIC

C3 14.469 VHL 3.804 DLA 36.70 RAL 15.99 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.885 DPA -4.47 RAP 6.83 ECC 1.2381
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.61 22 8 36 4012.03 -27.33 172.52 242.12 64.48 23 15 30 3412.0 -30.52 164.56
 114.39 4 1 9 2911.71 -27.31 89.73 242.12 64.47 4 49 41 2311.7 -30.51 81.76
 65.61 22 8 36 4012.03 -27.33 172.52 242.12 64.48 23 15 30 3412.0 -30.52 164.56
 114.39 4 1 9 2911.71 -27.31 89.73 242.12 64.47 4 49 41 2311.7 -30.51 81.76
 65.61 22 8 36 4012.03 -27.33 172.52 242.12 64.48 23 15 30 3412.0 -30.52 164.56
 114.39 4 1 9 2911.71 -27.31 89.73 242.12 64.47 4 49 41 2311.7 -30.51 81.76

DIFFERENTIAL CORRECTIONS

TOE 1.3352 TRA .9002 TC3-1.9863 BAU .3843
 RDE .2610 RRA .0738 RC3 -.0495 FAU .17772
 FDE 8.4705 FRA 7.7154 FC-10.6340 BSP 8515
 BOE 1.3604 BRA .9032 BC3 1.9869 FSP -6137

MID-COURSE EXECUTION ACCURACY

SGT 3031.2 SGR 418.6 SCS 1808.9
 RRT .8527 RNF .8364 RTF .9832
 SGB 3060.0 RPS -.0122 R13 .9832
 SGI 3052.3 SGE 217.2 TMA 6.75

ORBIT DETERMINATION ACCURACY

ST 2074.6 SR 395.4 SS 3360.1
 CRT .9898 CRS -.9751 CST -.9967
 LSA 3965.3 MSA 163.6 SSA 8.8
 EL1 2111.3 EL2 55.4 ALF 10.69

LAUNCH DATE DEC 11 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 490.984

RL 147.29 LAL -.00 LOL 79.02 VL 27.811 GAL 4.22 AZL 86.41 MCA 217.34 SMA 129.03 ECC .15926 INC 3.5945 V1 30.248
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.527 GAP 1.91 AZP 92.86 TAL 156.67 TAP 14.02 RCA 108.48 APO 149.57 V2 34.791
 RC 94.840 GL 27.02 GP -3.23 ZAL 54.07 ZAP 113.67 ETS 359.54 ZAE 150.01 ETE 186.26 ZAC 97.81 ETC 167.03 CLP-113.71

PLANETOCENTRIC CONIC

C3 14.654 VHL 3.828 DLA 36.52 RAL 16.68 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 2.970 DPA -4.87 RAP 5.08 ECC 1.2412
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.90 22 12 58 4010.21 -27.12 172.26 242.95 64.54 23 19 48 3410.2 -30.31 164.31
 114.10 4 2 21 2919.16 -27.11 90.22 242.94 64.53 4 51 0 2319.2 -30.30 82.27
 65.90 22 12 58 4010.21 -27.12 172.26 242.95 64.54 23 19 48 3410.2 -30.31 164.31
 114.10 4 2 21 2919.16 -27.11 90.22 242.94 64.53 4 51 0 2319.2 -30.30 82.27
 65.90 22 12 58 4010.21 -27.12 172.26 242.95 64.54 23 19 48 3410.2 -30.31 164.31
 114.10 4 2 21 2919.16 -27.11 90.22 242.94 64.53 4 51 0 2319.2 -30.30 82.27

DIFFERENTIAL CORRECTIONS

TOE 1.5026 TRA 1.0748 TC3-2.1925 BAU .4296
 RDE .2537 RRA .0578 RC3 -.0184 FAU .16758
 FDE 7.9171 FRA 7.4077 FC3-9.9003 BSP 9946
 BOE 1.5239 BRA 1.0764 BC3 2.1926 FSP -5840

MID-COURSE EXECUTION ACCURACY

SGT 3447.2 SGR 394.9 SCS 1702.4
 RRT .8029 RNF .7828 RTF .9863
 SGB 3469.7 RPS -.0215 R13 .9862
 SGI 3461.8 SGE 234.4 TMA 5.28

ORBIT DETERMINATION ACCURACY

ST 2328.3 SR 381.1 SS 3221.3
 CRT .9843 CRS -.9685 CST -.9972
 LSA 3989.5 MSA 165.1 SSA 9.2
 EL1 2358.4 EL2 66.4 ALF 9.16

LAUNCH DATE DEC 11 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 147.29 LAL -.00 LOL 79.02 VL 27.805 GAL 4.33 AZL 86.43 MCA 220.50 SMA 128.98 ECC .16042 INC 3.5727 V1 30.248
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.520 GAP 2.30 AZP 92.72 TAL 156.26 TAP 16.76 RCA 108.29 APO 149.68 V2 34.788
 RC 97.236 GL 26.60 GP -2.91 ZAL 53.48 ZAP 118.28 ETS 359.30 ZAE 146.84 ETE 184.74 ZAC 96.34 ETC 166.87 CLP-118.32

PLANETOCENTRIC CONIC

C3 14.891 VHL 3.859 DLA 36.35 RAL 17.43 RAD 6567.6 VEL 11.674 PTH 2.05 WHP 3.073 DPA -5.18 RAP 3.63 ECC 1.2451
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.20 22 17 33 4009.11 -26.89 172.06 243.88 64.57 23 24 22 3409.1 -30.08 164.12
 113.80 4 3 46 2927.41 -26.88 90.76 243.87 64.56 4 52 34 2327.4 -30.07 82.83
 66.20 22 17 33 4009.11 -26.89 172.06 243.88 64.57 23 24 22 3409.1 -30.08 164.12
 113.80 4 3 46 2927.41 -26.88 90.76 243.87 64.56 4 52 34 2327.4 -30.07 82.83
 66.20 22 17 33 4009.11 -26.89 172.06 243.88 64.57 23 24 22 3409.1 -30.08 164.12
 113.80 4 3 46 2927.41 -26.88 90.76 243.87 64.56 4 52 34 2327.4 -30.07 82.83

DIFFERENTIAL CORRECTIONS

TDE 1.6558 TRA 1.2453 TC3-2.3711 BAU .4720
 RDE .2487 RRA .0432 RC3 .0096 FAU .15637
 FDE 7.3470 FRA 7.0677 FC3-9.0912 BSP 11282
 BOE 1.6744 BRA 1.2461 BC3 2.3712 FSP -5505

MID-COURSE EXECUTION ACCURACY

SGT 3829.2 SGR 377.8 SCS 1588.4
 RRT .7445 RRF .7218 RTF .9882
 SGB 3847.8 R23 -.0256 R13 .9881
 SGI 3839.6 SGE 251.6 TMA 4.22

ORBIT DETERMINATION ACCURACY

ST 2553.7 SR 370.1 SS 3076.9
 CRT .9781 CRS -.9610 CST -.9975
 LSA 4012.2 MSA 166.6 SSA 9.6
 EL1 2579.3 EL2 76.3 ALF 8.07

LAUNCH DATE DEC 11 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

RL 147.29 LAL -.00 LOL 79.02 VL 27.798 GAL 4.45 AZL 86.45 MCA 223.67 SMA 128.93 ECC .16179 INC 3.5536 V1 30.248
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.512 GAP 2.66 AZP 92.57 TAL 155.80 TAP 19.47 RCA 108.07 APO 149.79 V2 34.786
 RC 99.636 GL 26.16 GP -2.63 ZAL 52.83 ZAP 122.58 ETS 359.12 ZAE 143.93 ETE 183.60 ZAC 95.17 ETC 166.75 CLP-122.62

PLANETOCENTRIC CONIC

C3 15.180 VHL 3.888 DLA 36.17 RAL 18.24 RAD 6567.6 VEL 11.686 PTH 2.06 WHP 3.191 DPA -5.39 RAP 2.48 ECC 1.2498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.50 22 22 24 4008.56 -26.63 171.88 244.92 64.58 23 29 13 3408.6 -29.83 163.97
 113.50 4 5 22 2936.57 -26.63 91.36 244.91 64.57 4 54 18 2336.6 -29.82 83.45
 66.50 22 22 24 4008.56 -26.63 171.88 244.92 64.58 23 29 13 3408.6 -29.83 163.97
 113.50 4 5 22 2936.57 -26.63 91.36 244.91 64.57 4 54 18 2336.6 -29.82 83.45
 66.50 22 22 24 4008.56 -26.63 171.88 244.92 64.58 23 29 13 3408.6 -29.83 163.97
 113.50 4 5 22 2936.57 -26.63 91.36 244.91 64.57 4 54 18 2336.6 -29.82 83.45

DIFFERENTIAL CORRECTIONS

TDE 1.7970 TRA 1.4141 TC3-2.5160 BAU .5107
 RDE .2462 RRA .0301 RC3 .0346 FAU .14403
 FDE 6.7923 FRA 6.7259 FC3-8.2144 BSP 12471
 BOE 1.8138 BRA 1.4145 BC3 2.5163 FSP -5123

MID-COURSE EXECUTION ACCURACY

SGT 4178.9 SGR 367.1 SCS 1473.5
 RRT .6813 RRF .6574 RTF .9893
 SGB 4195.0 R23 -.0265 R13 .9892
 SGI 4186.4 SGE 268.3 TMA 3.44

ORBIT DETERMINATION ACCURACY

ST 2753.9 SR 362.4 SS 2935.2
 CRT .9713 CRS -.9530 CST -.9977
 LSA 4037.6 MSA 168.3 SSA 10.1
 EL1 2776.3 EL2 85.5 ALF 7.29

LAUNCH DATE DEC 11 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

RL 147.29 LAL -.00 LOL 79.02 VL 27.789 GAL 4.58 AZL 86.46 MCA 226.83 SMA 128.87 ECC .16337 INC 3.5365 V1 30.248
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.504 GAP 3.06 AZP 92.42 TAL 155.31 TAP 22.14 RCA 107.82 APO 149.92 V2 34.784
 RC 102.038 GL 25.70 GP -2.39 ZAL 52.15 ZAP 126.57 ETS 358.98 ZAF 141.27 ETE 182.71 ZAC 94.31 ETC 166.67 CLP-126.60

PLANETOCENTRIC CONIC

C3 15.523 VHL 3.940 DLA 35.98 RAL 19.10 RAD 6567.6 VEL 11.701 PTH 2.06 WHP 3.324 DPA -5.51 RAP 1.63 ECC 1.2555
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.81 22 27 32 4008.58 -26.37 171.74 246.06 64.58 23 34 20 3408.6 -29.56 163.84
 113.19 4 7 7 2946.62 -26.36 92.02 246.05 64.57 4 56 13 2346.6 -29.55 84.13
 66.81 22 27 32 4008.58 -26.37 171.74 246.06 64.58 23 34 20 3408.6 -29.56 163.84
 113.19 4 7 7 2946.62 -26.36 92.02 246.05 64.57 4 56 13 2346.6 -29.55 84.13
 66.81 22 27 32 4008.58 -26.37 171.74 246.06 64.58 23 34 20 3408.6 -29.56 163.84
 113.19 4 7 7 2946.62 -26.36 92.02 246.05 64.57 4 56 13 2346.6 -29.55 84.13

DIFFERENTIAL CORRECTIONS

TDE 1.9233 TRA 1.5782 TC3-2.6364 BAU .5472
 RDE .2457 RRA .0184 RC3 .0553 FAU .13239
 FDE 6.2477 FRA 6.3735 FC3-7.3833 BSP 13603
 BOE 1.9390 BRA 1.5783 BC3 2.6369 FSP -4768

MID-COURSE EXECUTION ACCURACY

SGT 4492.5 SGR 361.5 SCS 1359.5
 RRT .6173 RRF .5926 RTF .9900
 SGB 4507.0 R23 -.0266 R13 .9899
 SGI 4498.1 SGE 284.1 TMA 2.86

ORBIT DETERMINATION ACCURACY

ST 2924.2 SR 357.5 SS 2790.3
 CRT .9641 CRS -.9445 CST -.9978
 LSA 4054.1 MSA 170.0 SSA 10.5
 EL1 2944.4 EL2 94.3 ALF 6.73

LAUNCH DATE DEC 11 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

RL 147.29 LAL -.00 LOL 79.02 VL 27.779 GAL 4.73 AZL 86.48 MCA 229.99 SMA 128.80 ECC .16517 INC 3.5212 V1 30.248
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.496 GAP 3.44 AZP 92.27 TAL 154.77 TAP 24.76 RCA 107.53 APO 150.07 V2 34.783
 RC 104.441 GL 25.22 GP -2.18 ZAL 51.42 ZAP 130.28 ETS 358.88 ZAE 138.87 ETE 182.02 ZAC 93.74 ETC 166.61 CLP-130.30

PLANETOCENTRIC CONIC

C3 15.924 VHL 3.990 DLA 35.79 RAL 20.02 RAD 6567.6 VEL 11.718 PTH 2.06 WHP 3.470 DPA -5.54 RAP 1.05 ECC 1.2621
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.13 22 32 57 4009.04 -26.07 171.81 247.30 64.58 23 39 46 3409.0 -29.27 163.75
 112.87 4 8 59 2957.70 -26.06 92.75 247.29 64.55 4 58 17 2357.7 -29.26 84.88
 67.13 22 32 57 4009.04 -26.07 171.81 247.30 64.58 23 39 46 3409.0 -29.27 163.75
 112.87 4 8 59 2957.70 -26.06 92.75 247.29 64.55 4 58 17 2357.7 -29.26 84.88
 67.13 22 32 57 4009.04 -26.07 171.81 247.30 64.58 23 39 46 3409.0 -29.27 163.75
 112.87 4 8 59 2957.70 -26.06 92.75 247.29 64.55 4 58 17 2357.7 -29.26 84.88

DIFFERENTIAL CORRECTIONS

TDE 2.0377 TRA 1.7410 TC3-2.7272 BAU .5808
 RDE .2475 RRA .0080 RC3 .0725 FAU .12096
 FDE 5.7337 FRA 6.0335 FC3-6.5782 BSP 14631
 BOE 2.0526 BRA 1.7410 BC3 2.7281 FSP -4417

MID-COURSE EXECUTION ACCURACY

SGT 4774.3 SGR 380.3 SCS 1250.2
 RRT .5567 RRF .5380 RTF .9904
 SGB 4787.9 R23 -.0259 R13 .9903
 SGI 4778.5 SGE 299.0 TMA 2.42

ORBIT DETERMINATION ACCURACY

ST 3069.0 SR 355.4 SS 2649.1
 CRT .9567 CRS -.9360 CST -.9979
 LSA 4066.1 MSA 171.9 SSA 10.9
 EL1 3087.8 EL2 102.8 ALF 6.33

LAUNCH DATE DEC 11 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 521.770

RL 147.29 LAL -.00 LOL 79.02 VL 27.767 GAL 4.89 AZL 86.49 MCA 233.15 SMA 128.72 ECC .16718 INC 3.5072 V1 30.248
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.487 GAP 3.83 AZP 92.11 TAL 154.20 TAP 27.35 RCA 107.20 APO 150.24 V2 34.783
 RC 106.844 GL 24.72 GP -1.99 ZAL 50.64 ZAP 133.69 ETS 358.81 ZAE 136.71 ETE 181.47 ZAC 93.44 ETC 166.57 CLP-133.72

PLANETOCENTRIC CONIC

C3 16.385 WHL 4.048 DLA 35.59 RAL 20.98 RAD 6567.7 VEL 11.737 PTH 2.07 WHP 3.628 DPA -5.47 RAP .74 ECC 1.2697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.48 22 38 44 4009.78 -25.75 171.50 248.64 64.53 23 45 33 3409.8 -28.95 163.66
 112.52 4 10 54 2969.96 -25.73 93.55 248.63 64.52 5 0 24 2370.0 -28.94 85.72
 67.48 22 38 44 4009.78 -25.75 171.50 248.64 64.53 23 45 33 3409.8 -28.95 163.66
 112.52 4 10 54 2969.96 -25.73 93.55 248.63 64.52 5 0 24 2370.0 -28.94 85.72
 67.48 22 38 44 4009.78 -25.75 171.50 248.64 64.53 23 45 33 3409.8 -28.95 163.66
 112.52 4 10 54 2969.96 -25.73 93.55 248.63 64.52 5 0 24 2370.0 -28.94 85.72

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.1418 TRA 1.9038 TC3-2.7911 BAU .6117 SGT 5027.7 SGR 362.4 SG3 1147.7 ST 3191.2 SR 355.7 SS 2513.9
 RDE .2513 RRA -.0009 RC3 .0860 FAU .11012 RRT .5027 RRF .4787 RTF .9906 CRT .9495 CRS -.9275 CST -.9979
 FDE 5.2585 FRA 5.7124 FC3-5.8183 B8P 15569 SGB 5040.7 R23 -.0246 R13 .9905 LSA 4074.3 MSA 174.1 SSA 11.3
 BDE 2.1565 BRA 1.9038 BC3 2.7924 F8P -4082 SGI 5031.0 SGE 313.1 TMA 2.08 EL1 3209.1 EL2 111.0 ALF 6.05

LAUNCH DATE DEC 11 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 527.859

RL 147.29 LAL -.00 LOL 79.02 VL 27.755 GAL 5.08 AZL 86.51 MCA 236.31 SMA 128.63 ECC .16941 INC 3.4944 V1 30.248
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.479 GAP 4.21 AZP 91.94 TAL 153.60 TAP 29.91 RCA 106.84 APO 150.43 V2 34.784
 RC 109.248 GL 24.19 GP -1.83 ZAL 49.83 ZAP 136.86 ETS 358.76 ZAE 134.78 ETE 181.03 ZAC 93.40 ETC 166.56 CLP-136.89

PLANETOCENTRIC CONIC

C3 16.911 WHL 4.112 DLA 35.38 RAL 21.99 RAD 6567.7 VEL 11.760 PTH 2.08 WHP 3.797 DPA -5.33 RAP .66 ECC 1.2783
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.84 22 44 47 4010.93 -25.39 171.40 250.06 64.49 23 51 38 3410.9 -28.61 163.60
 112.16 4 12 53 2983.31 -25.38 94.43 250.06 64.48 5 2 37 2383.3 -28.60 86.62
 67.84 22 44 47 4010.93 -25.39 171.40 250.06 64.49 23 51 38 3410.9 -28.61 163.60
 112.16 4 12 53 2983.31 -25.38 94.43 250.06 64.48 5 2 37 2383.3 -28.60 86.62
 67.84 22 44 47 4010.93 -25.39 171.40 250.06 64.49 23 51 38 3410.9 -28.61 163.60
 112.16 4 12 53 2983.31 -25.38 94.43 250.06 64.48 5 2 37 2383.3 -28.60 86.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2370 TRA 2.0681 TC3-2.8280 BAU .6398 SGT 5254.9 SGR 366.9 SG3 1052.6 ST 3292.9 SR 358.0 SS 2385.3
 RDE .2570 RRA -.0084 RC3 .0982 FAU .09886 RRT .4571 RRF .4342 RTF .9906 CRT .9424 CRS -.9194 CST -.9980
 FDE 4.8228 FRA 5.4137 FC3-5.1119 B8P 16409 SGB 5267.7 R23 -.0229 R13 .9906 LSA 4077.9 MSA 176.4 SSA 11.6
 BDE 2.2517 BRA 2.0681 BC3 2.8296 F8P -3762 SGI 5257.6 SGE 326.2 TMA 1.84 EL1 3310.1 EL2 119.1 ALF 5.86

LAUNCH DATE DEC 11 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 533.925

RL 147.29 LAL -.00 LOL 79.02 VL 27.741 GAL 5.27 AZL 86.52 MCA 239.47 SMA 128.54 ECC .17188 INC 3.4824 V1 30.248
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.470 GAP 4.60 AZP 91.77 TAL 152.96 TAP 32.43 RCA 106.45 APO 150.64 V2 34.785
 RC 111.645 GL 23.64 GP -1.69 ZAL 48.97 ZAP 139.80 ETS 358.73 ZAE 133.05 ETE 180.67 ZAC 93.58 ETC 166.57 CLP-139.83

PLANETOCENTRIC CONIC

C3 17.508 WHL 4.184 DLA 35.16 RAL 23.04 RAD 6567.7 VEL 11.785 PTH 2.08 WHP 3.976 DPA -5.10 RAP .81 ECC 1.2881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.23 22 51 12 4012.27 -25.01 171.31 251.58 64.44 23 58 4 3412.3 -28.23 163.53
 111.77 4 14 52 2997.99 -25.00 95.39 251.57 64.43 5 4 50 2398.0 -28.22 87.61
 68.23 22 51 12 4012.27 -25.01 171.31 251.58 64.44 23 58 4 3412.3 -28.23 163.53
 111.77 4 14 52 2997.99 -25.00 95.39 251.57 64.43 5 4 50 2398.0 -28.22 87.61
 68.23 22 51 12 4012.27 -25.01 171.31 251.58 64.44 23 58 4 3412.3 -28.23 163.53
 111.77 4 14 52 2997.99 -25.00 95.39 251.57 64.43 5 4 50 2398.0 -28.22 87.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3270 TRA 2.2380 TC3-2.8352 BAU .6641 SGT 5462.0 SGR 373.1 SG3 965.9 ST 3379.8 SR 362.2 SS 2266.7
 RDE .2645 RRA -.0144 RC3 .1035 FAU .08997 RRT .4209 RRF .3997 RTF .9905 CRT .9358 CRS -.9117 CST -.9980
 FDE 4.4325 FRA 5.1454 FC3-4.4489 B8P 17110 SGB 5474.7 R23 -.0207 R13 .9904 LSA 4081.7 MSA 179.1 SSA 11.9
 BDE 2.3420 BRA 2.2381 BC3 2.8371 F8P -3449 SGI 5464.3 SGE 338.3 TMA 1.65 EL1 3396.7 EL2 127.1 ALF 5.73

LAUNCH DATE DEC 11 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 539.966

RL 147.29 LAL -.00 LOL 79.02 VL 27.727 GAL 5.49 AZL 86.53 MCA 242.63 SMA 128.44 ECC .17459 INC 3.4712 V1 30.248
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.461 GAP 5.00 AZP 91.60 TAL 152.29 TAP 34.92 RCA 106.02 APO 150.87 V2 34.787
 RC 114.042 GL 23.07 GP -1.56 ZAL 48.09 ZAP 142.55 ETS 358.71 ZAE 131.50 ETE 180.36 ZAC 93.97 ETC 166.59 CLP-142.56

PLANETOCENTRIC CONIC

C3 18.181 WHL 4.264 DLA 34.93 RAL 24.13 RAD 6567.7 VEL 11.814 PTH 2.09 WHP 4.165 DPA -4.81 RAP 1.15 ECC 1.2992
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.64 22 57 55 4013.88 -24.80 171.22 253.18 64.39 24 4 49 3413.9 -27.83 163.48
 111.36 4 16 50 3013.94 -24.59 96.43 253.18 64.37 5 7 3 2413.9 -27.82 88.69
 68.64 22 57 55 4013.88 -24.80 171.22 253.18 64.39 24 4 49 3413.9 -27.83 163.48
 111.36 4 16 50 3013.94 -24.59 96.43 253.18 64.37 5 7 3 2413.9 -27.82 88.69
 68.64 22 57 55 4013.88 -24.80 171.22 253.18 64.39 24 4 49 3413.9 -27.83 163.48
 111.36 4 16 50 3013.94 -24.59 96.43 253.18 64.37 5 7 3 2413.9 -27.82 88.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4070 TRA 2.4080 TC3-2.8269 BAU .6876 SGT 5644.5 SGR 380.0 SG3 885.8 ST 3445.2 SR 367.5 SS 2150.9
 RDE .2734 RRA -.0193 RC3 .1077 FAU .08130 RRT .3927 RRF .3730 RTF .9903 CRT .9295 CRS -.9045 CST -.9980
 FDE 4.0708 FRA 4.8923 FC3-3.8711 B8P 17811 SGB 5657.3 R23 -.0188 R13 .9903 LSA 4074.0 MSA 182.0 SSA 12.2
 BDE 2.4225 BRA 2.4091 BC3 2.8290 F8P -3179 SGI 5646.5 SGE 349.4 TMA 1.52 EL1 3462.1 EL2 134.9 ALF 5.67

LAUNCH DATE DEC 11 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 545.980

RL 147.29 LAL -1.00 LOL 79.02 VL 27.712 GAL 5.72 AZL 86.54 MCA 245.80 SMA 128.34 ECC .17755 INC 3.4606 VI 30.248
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.453 GAP 5.40 AZP 91.42 TAL 151.58 TAP 37.38 RCA 105.55 APO 151.12 V2 34.790
 RC 116.435 GL 22.49 GP -1.45 ZAL 47.17 ZAP 145.07 ETS 358.71 ZAE 130.11 ETE 180.14 ZAC 94.54 ETC 166.63 CLP-145.10

PLANETOCENTRIC CONIC

C3 18.938 VML 4.352 OLA 34.68 RAL 25.25 RAD 6567.8 VEL 11.846 PTM 2.10 VMP 4.365 DPA -4.45 RAP 1.67 ECC 1.3117
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.09 23 4 57 4015.68 -24.16 171.13 254.86 64.32 24 11 53 3415.7 -27.40 163.42
 110.91 4 18 43 3031.28 -24.14 97.56 254.86 64.31 5 9 15 2431.3 -27.39 89.86
 69.09 23 4 57 4015.68 -24.16 171.13 254.86 64.32 24 11 53 3415.7 -27.40 163.42
 110.91 4 18 43 3031.28 -24.14 97.56 254.86 64.31 5 9 15 2431.3 -27.39 89.86
 69.09 23 4 57 4015.68 -24.16 171.13 254.86 64.32 24 11 53 3415.7 -27.40 163.42
 110.91 4 18 43 3031.28 -24.14 97.56 254.86 64.31 5 9 15 2431.3 -27.39 89.86

DIFFERENTIAL CORRECTIONS

TDE 2.4816 TRA 2.5856 TC3-2.7977 BAU .7089
 RDE .2838 RRA -.0228 RC3 .1095 FAU .07327
 FDE 3.7453 FRA 4.6630 FC3-3.3492 BAP 18439
 BDE 2.4978 BRA 2.5857 BC3 2.7998 FAP -2929

MID-COURSE EXECUTION ACCURACY

SGT 5808.7 SGR 387.4 SCS 813.0
 RRT .3724 RRF .3546 RTF .9900
 SCS 5821.8 R23 -.0167 R13 .9900
 SGI 5810.5 SGE 359.4 THA 1.43

ORBIT DETERMINATION ACCURACY

ST 3496.1 SR 373.9 SS 2042.6
 CRT .9236 CRS -.8977 CST -.9980
 LSA 4062.1 MSA 185.2 SSA 12.4
 EL1 3513.1 EL2 142.7 ALF 5.65

LAUNCH DATE DEC 11 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 551.967

RL 147.29 LAL -1.00 LOL 79.02 VL 27.696 GAL 5.97 AZL 86.55 MCA 248.96 SMA 128.25 ECC .18077 INC 3.4505 VI 30.248
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.444 GAP 5.80 AZP 91.24 TAL 150.86 TAP 39.81 RCA 105.05 APO 151.41 V2 34.794
 RC 118.823 GL 21.88 GP -1.35 ZAL 46.23 ZAP 147.45 ETS 358.72 ZAE 128.87 ETE 179.95 ZAC 95.28 ETC 166.67 CLP-147.47

PLANETOCENTRIC CONIC

C3 19.788 VML 4.448 OLA 34.42 RAL 26.40 RAD 6567.8 VEL 11.881 PTM 2.11 VMP 4.574 DPA -4.04 RAP 2.35 ECC 1.3257
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.56 23 12 18 4017.67 -23.68 171.03 256.62 64.26 24 19 16 3417.7 -26.94 163.37
 110.44 4 20 32 3050.06 -23.67 98.79 256.61 64.25 5 11 22 2450.1 -26.93 91.12
 69.56 23 12 18 4017.67 -23.68 171.03 256.62 64.26 24 19 16 3417.7 -26.94 163.37
 110.44 4 20 32 3050.06 -23.67 98.79 256.61 64.25 5 11 22 2450.1 -26.93 91.12
 69.56 23 12 18 4017.67 -23.68 171.03 256.62 64.26 24 19 16 3417.7 -26.94 163.37
 110.44 4 20 32 3050.06 -23.67 98.79 256.61 64.25 5 11 22 2450.1 -26.93 91.12

DIFFERENTIAL CORRECTIONS

TDE 2.5511 TRA 2.7889 TC3-2.7495 BAU .7279
 RDE .2955 RRA -.0250 RC3 .1080 FAU .06589
 FDE 3.4513 FRA 4.4556 FC3-2.8826 BAP 18013
 BDE 2.5681 BRA 2.7891 BC3 2.7516 FAP -2700

MID-COURSE EXECUTION ACCURACY

SGT 5955.9 SGR 394.8 SCS 746.9
 RRT .3582 RRF .3433 RTF .9897
 SCS 5969.0 R23 -.0146 R13 .9897
 SGI 5957.6 SGE 368.3 THA 1.37

ORBIT DETERMINATION ACCURACY

ST 3533.3 SR 380.9 SS 1940.8
 CRT .9180 CRS -.8914 CST -.9980
 LSA 4044.8 MSA 188.6 SSA 12.6
 EL1 3550.6 EL2 150.3 ALF 5.66

LAUNCH DATE DEC 11 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 557.925

RL 147.29 LAL -1.00 LOL 79.02 VL 27.679 GAL 6.24 AZL 86.56 MCA 252.12 SMA 128.11 ECC .18428 INC 3.4409 VI 30.248
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.436 GAP 6.22 AZP 91.06 TAL 150.10 TAP 42.22 RCA 104.50 APO 151.72 V2 34.798
 RC 121.206 GL 21.26 GP -1.26 ZAL 45.26 ZAP 149.67 ETS 358.73 ZAE 127.76 ETE 179.79 ZAC 96.17 ETC 166.71 CLP-149.70

PLANETOCENTRIC CONIC

C3 20.740 VML 4.554 OLA 34.15 RAL 27.57 RAD 6567.8 VEL 11.921 PTM 2.12 VMP 4.792 DPA -3.57 RAP 3.17 ECC 1.3413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.06 23 20 0 4019.67 -23.18 170.92 256.45 64.19 24 26 59 3419.7 -26.45 163.30
 109.94 4 22 11 3070.48 -23.16 100.12 256.44 64.18 5 13 21 2470.5 -26.44 92.49
 70.06 23 20 0 4019.67 -23.18 170.92 256.45 64.19 24 26 59 3419.7 -26.45 163.30
 109.94 4 22 11 3070.48 -23.16 100.12 256.44 64.18 5 13 21 2470.5 -26.44 92.49
 110.00 4 34 17 3035.61 -24.23 97.79 256.99 65.11 5 24 50 2433.6 -27.37 90.03
 110.00 4 11 0 3104.54 -22.12 108.22 257.88 63.25 5 2 45 2504.5 -25.53 94.72

DIFFERENTIAL CORRECTIONS

TDE 2.6167 TRA 2.9601 TC3-2.6849 BAU .7450
 RDE .3084 RRA -.0260 RC3 .1068 FAU .05915
 FDE 3.1869 FRA 4.2684 FC3-2.4691 BAP 19527
 BDE 2.6348 BRA 2.9602 BC3 2.6871 FAP -2489

MID-COURSE EXECUTION ACCURACY

SGT 6088.3 SGR 402.0 SCS 687.1
 RRT .3522 RRF .3382 RTF .9893
 SCS 6101.6 R23 -.0124 R13 .9893
 SGI 6090.0 SGE 376.1 THA 1.34

ORBIT DETERMINATION ACCURACY

ST 3558.9 SR 388.2 SS 1845.7
 CRT .9128 CRS -.8856 CST -.9980
 LSA 4023.2 MSA 192.2 SSA 12.8
 EL1 3576.5 EL2 157.7 ALF 5.70

LAUNCH DATE DEC 11 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 563.853

RL 147.29 LAL -1.00 LOL 79.02 VL 27.682 GAL 6.53 AZL 86.57 MCA 255.29 SMA 127.99 ECC .18809 INC 3.4315 VI 30.248
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.427 GAP 6.84 AZP 90.87 TAL 149.32 TAP 44.61 RCA 103.92 APO 152.07 V2 34.803
 RC 123.581 GL 20.63 GP -1.18 ZAL 44.27 ZAP 151.77 ETS 358.74 ZAE 126.77 ETE 179.67 ZAC 97.19 ETC 166.76 CLP-151.79

PLANETOCENTRIC CONIC

C3 21.806 VML 4.670 OLA 33.86 RAL 28.76 RAD 6567.9 VEL 11.966 PTM 2.13 VMP 5.022 DPA -3.06 RAP 4.12 ECC 1.3589
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.60 23 28 0 4021.76 -22.64 170.81 260.34 64.12 24 35 2 3421.8 -25.93 163.22
 109.40 4 23 39 3092.51 -22.63 101.95 260.34 64.11 5 15 12 2492.5 -25.92 93.97
 70.60 23 28 0 4021.76 -22.64 170.81 260.34 64.12 24 35 2 3421.8 -25.93 163.22
 109.40 4 23 39 3092.51 -22.63 101.95 260.34 64.11 5 15 12 2492.5 -25.92 93.97
 110.00 5 2 49 2972.94 -25.91 93.87 261.98 66.88 5 52 22 2572.9 -28.81 85.89
 110.00 5 51 57 3189.33 -19.44 107.33 260.57 61.31 4 45 7 2589.3 -23.11 100.12

DIFFERENTIAL CORRECTIONS

TDE 2.6813 TRA 3.1828 TC3-2.8010 BAU .7508
 RDE .3225 RRA -.0255 RC3 .1031 FAU .05878
 FDE 2.9524 FRA 4.1036 FC3-2.0956 BAP 19933
 BDE 2.7006 BRA 3.1830 BC3 2.8030 FAP -2289

MID-COURSE EXECUTION ACCURACY

SGT 6210.1 SGR 408.9 SCS 633.3
 RRT .3509 RRF .3389 RTF .9889
 SCS 6223.5 R23 -.0101 R13 .9889
 SGI 6211.8 SGE 382.8 THA 1.33

ORBIT DETERMINATION ACCURACY

ST 3576.9 SR 395.8 SS 1758.9
 CRT .9080 CRS -.8802 CST -.9980
 LSA 4000.7 MSA 195.9 SSA 12.9
 EL1 3595.0 EL2 165.0 ALF 5.75

LAUNCH DATE DEC 11 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 569.747

RL 147.29 LAL -.00 LOL 79.02 VL 27.644 GAL 6.84 AZL 86.58 MCA 258.45 SMA 127.87 ECC .19222 INC 3.4225 V1 30.248
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.419 GAP 7.08 AZP 90.69 TAL 146.53 TAP 46.98 RCA 103.29 APO 152.45 V2 34.808
 RC 129.948 GL 19.98 GP -1.11 ZAL 43.26 ZAP 153.74 ETS 358.76 ZAE 125.87 ETE 179.57 ZAC 98.32 ETC 166.80 CLP-153.76

PLANETOCENTRIC CONIC

C3 22.999 VHL 4.796 OLA 33.56 RAL 29.96 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 5.261 DPA -2.50 RAP 5.17 ECC 1.3785
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.18 23 36 21 4023.79 -22.07 170.66 262.31 64.05 24 43 25 3423.8 -25.38 163.12
 108.82 4 24 54 3116.33 -22.06 103.10 262.30 64.04 5 16 50 2516.3 -25.36 95.56
 71.18 23 36 21 4023.79 -22.07 170.66 262.31 64.05 24 43 25 3423.8 -25.38 163.12
 108.82 4 24 54 3116.33 -22.06 103.10 262.30 64.04 5 16 50 2516.3 -25.36 95.56
 110.00 5 21 25 2943.33 -26.69 91.92 264.57 67.80 6 10 29 2343.3 -29.45 83.83
 110.00 3 42 56 3244.79 -17.59 110.57 259.79 60.21 4 37 1 2644.8 -21.42 103.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.7400 TRA 3.3723 TC3-2.5101 BAU .7724 SGT 6315.9 SGR 415.3 SCS 584.0 ST 3581.2 SR 403.2 SS 1675.3
 RDE .3374 RRA -.0239 RC3 .0981 FAU .04722 RRT .3535 RRF .3432 RTF .9885 CRT .9033 CRS -.8751 CST -.9980
 FDE 2.7368 FRA 3.9507 FC3-1.7773 BAP 20369 SCS 6329.5 R23 -.0000 R13 .9884 LSA 3969.2 MSA 199.7 SSA 13.0
 BOE 2.7607 BRA 3.3724 BC3 2.5120 FAP -2116 SGI 6317.6 SGE 388.4 TMA 1.34 ELI 3599.8 EL2 172.1 ALF 5.82

LAUNCH DATE DEC 11 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 575.804

RL 147.29 LAL -.00 LOL 79.02 VL 27.625 GAL 7.18 AZL 86.59 MCA 261.62 SMA 127.74 ECC .19669 INC 3.4136 V1 30.248
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.411 GAP 7.53 AZP 90.50 TAL 147.71 TAP 49.33 RCA 102.62 APO 152.87 V2 34.815
 RC 128.306 GL 19.32 GP -1.05 ZAL 42.25 ZAP 155.61 ETS 358.77 ZAE 125.07 ETE 179.49 ZAC 99.56 ETC 166.84 CLP-155.63

PLANETOCENTRIC CONIC

C3 24.336 VHL 4.933 OLA 33.25 RAL 31.17 RAD 6568.0 VEL 12.071 PTH 2.16 VHP 5.513 DPA -1.91 RAP 6.33 ECC 1.4005
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.80 23 45 2 4025.80 -21.47 170.90 264.33 63.98 24 52 7 3425.8 -24.79 163.00
 108.20 4 25 53 3141.95 -21.46 104.77 264.32 63.97 5 18 15 2541.9 -24.78 97.27
 71.80 23 45 2 4025.80 -21.47 170.90 264.33 63.98 24 52 7 3425.8 -24.79 163.00
 108.20 4 25 53 3141.95 -21.46 104.77 264.32 63.97 5 18 15 2541.9 -24.78 97.27
 110.00 5 37 22 2922.66 -27.21 90.55 267.10 68.46 6 26 5 2322.7 -29.88 82.38
 110.00 3 36 39 3293.08 -15.94 113.34 261.18 59.35 4 31 32 2693.1 -19.88 106.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.7971 TRA 3.5931 TC3-2.4070 BAU .7837 SGT 6410.6 SGR 421.1 SCS 539.3 ST 3577.7 SR 410.3 SS 1597.6
 RDE .3531 RRA -.0209 RC3 .0981 FAU .04809 RRT .3600 RRF .3514 RTF .9880 CRT .8988 CRS -.8702 CST -.9981
 FDE 2.5430 FRA 3.8136 FC3-1.4972 BAP 20763 SCS 6424.4 R23 -.0061 R13 .9880 LSA 3934.5 MSA 203.6 SSA 13.0
 BOE 2.8193 BRA 3.5932 BC3 2.4088 FAP -1958 SGI 6412.4 SGE 392.8 TMA 1.36 ELI 3596.7 EL2 178.9 ALF 5.90

LAUNCH DATE DEC 11 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 581.422

RL 147.29 LAL -.00 LOL 79.02 VL 27.606 GAL 7.55 AZL 86.60 MCA 264.78 SMA 127.62 ECC .20153 INC 3.4049 V1 30.248
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.404 GAP 8.00 AZP 90.31 TAL 146.88 TAP 51.66 RCA 101.90 APO 153.33 V2 34.821
 RC 130.653 GL 18.65 GP -.99 ZAL 41.22 ZAP 157.39 ETS 358.77 ZAE 124.34 ETE 179.44 ZAC 100.90 ETC 166.87 CLP-157.41

PLANETOCENTRIC CONIC

C3 25.834 VHL 5.083 OLA 32.92 RAL 32.38 RAD 6568.0 VEL 12.133 PTH 2.17 VHP 5.777 DPA -1.29 RAP 7.57 ECC 1.4252
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.46 23 54 4 4027.58 -20.84 170.31 266.40 63.91 25 1 11 3427.6 -24.17 162.85
 107.54 4 26 32 3169.60 -20.82 106.57 266.40 63.90 5 19 22 2569.6 -24.16 99.11
 72.46 23 54 4 4027.58 -20.84 170.31 266.40 63.91 25 1 11 3427.6 -24.17 162.85
 107.54 4 26 32 3169.60 -20.82 106.57 266.40 63.90 5 19 22 2569.6 -24.16 99.11
 110.00 5 51 45 2907.04 -27.60 89.49 269.63 68.98 6 40 22 2307.0 -30.20 81.27
 110.00 3 31 47 3338.13 -14.36 115.87 262.88 58.84 4 27 25 2738.1 -18.40 109.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.8524 TRA 3.8267 TC3-2.2943 BAU .7929 SGT 6495.2 SGR 426.3 SCS 498.7 ST 3566.6 SR 416.8 SS 1525.4
 RDE .3697 RRA -.0164 RC3 .0855 FAU .03737 RRT .3698 RRF .3627 RTF .9876 CRT .8944 CRS -.8656 CST -.9981
 FDE 2.3683 FRA 3.6913 FC3-1.2524 BAP 21115 SCS 6509.2 R23 -.0042 R13 .9876 LSA 3895.9 MSA 207.4 SSA 13.0
 BOE 2.8763 BRA 3.8267 BC3 2.2959 FAP -1813 SGI 6497.1 SGE 396.0 TMA 1.40 ELI 3586.1 EL2 185.4 ALF 5.98

LAUNCH DATE DEC 11 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 587.196

RL 147.29 LAL -.00 LOL 79.02 VL 27.586 GAL 7.94 AZL 86.60 MCA 267.95 SMA 127.48 ECC .20678 INC 3.3963 V1 30.248
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.396 GAP 8.48 AZP 90.12 TAL 146.04 TAP 53.99 RCA 101.12 APO 153.84 V2 34.829
 RC 132.989 GL 17.97 GP -.94 ZAL 40.19 ZAP 159.09 ETS 358.77 ZAE 123.67 ETE 179.39 ZAC 102.31 ETC 166.89 CLP-159.11

PLANETOCENTRIC CONIC

C3 27.515 VHL 5.245 OLA 32.58 RAL 33.80 RAD 6568.1 VEL 12.202 PTH 2.19 VHP 6.054 DPA -.63 RAP 8.89 ECC 1.4528
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.17 0 7 24 4029.07 -20.17 170.07 268.53 63.85 1 14 33 3429.1 -23.52 162.66
 106.83 4 26 48 3199.39 -20.16 108.90 268.53 63.84 5 20 8 2599.4 -23.50 101.09
 73.17 0 7 24 4029.07 -20.17 170.07 268.53 63.85 1 14 33 3429.1 -23.52 162.66
 106.83 4 26 48 3199.39 -20.16 108.90 268.53 63.84 5 20 8 2599.4 -23.50 101.09
 110.00 6 5 34 2894.93 -27.89 88.67 272.18 69.38 6 53 49 2294.9 -30.43 80.40
 110.00 3 27 48 3381.53 -12.80 118.28 264.27 58.03 4 24 10 2781.5 -16.94 111.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.9101 TRA 4.0769 TC3-2.1687 BAU .7983 SGT 6573.5 SGR 431.0 SCS 462.2 ST 3552.8 SR 422.8 SS 1460.1
 RDE .3870 RRA -.0105 RC3 .0786 FAU .03287 RRT .3828 RRF .3772 RTF .9871 CRT .8902 CRS -.8613 CST -.9982
 FDE 2.2139 FRA 3.5848 FC3-1.0343 BAP 21357 SCS 6587.7 R23 -.0022 R13 .9871 LSA 3858.6 MSA 211.1 SSA 12.9
 BOE 2.9358 BRA 4.0769 BC3 2.1701 FAP -1673 SGI 6575.6 SGE 388.0 TMA 1.44 ELI 3572.8 EL2 191.5 ALF 6.06

LAUNCH DATE DEC 11 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 592.921

RL 147.29 LAL -.00 LOL 79.02 VL 27.567 GAL 8.36 AZL 86.61 MCA 271.12 SMA 127.35 ECC .21247 INC 3.3877 V1 30.248
 RP 108.78 LAP -3.39 LOP 350.14 VP 37.389 GAP 8.99 AZP 89.93 TAL 145.19 TAP 56.31 RCA 100.29 APO 154.41 V2 34.837
 RC 135.313 GL 17.29 GP -.90 ZAL 39.15 ZAP 160.72 ETS 358.76 ZAE 123.07 ETE 179.37 ZAC 103.79 ETC 166.90 CLP-160.74

PLANETOCENTRIC CONIC

C3 29.405 VHL 5.423 DLA 32.23 RAL 34.81 RAD 6568.2 VEL 12.279 PTH 2.21 VHP 6.346 DPA .05 RAP 10.27 ECC 1.4839
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.92 0 17 13 4030.12 -19.47 169.79 270.71 63.80 1 24 23 3430.1 -22.83 162.42
 106.08 4 26 38 3231.50 -19.46 110.59 270.71 63.79 5 20 29 2631.5 -22.82 103.23
 73.92 0 17 13 4030.12 -19.47 169.79 270.71 63.80 1 24 23 3430.1 -22.83 162.42
 106.08 4 26 38 3231.50 -19.46 110.59 270.71 63.79 5 20 29 2631.5 -22.82 103.23
 110.00 6 18 35 2885.54 -28.11 88.04 274.77 69.70 7 6 40 2285.5 -30.61 79.73
 110.00 3 24 26 3424.08 -11.26 120.61 265.93 57.51 4 21 30 2824.1 -15.47 114.03

DIFFERENTIAL CORRECTIONS

TDE 2.9634 TRA 4.3382 TC3-2.0426 BAU .8035
 RDE .4049 RRA -.0031 RC3 .0713 FAU .02894
 FDE 2.0708 FRA 3.4861 FC3 -.8521 BSP 21662
 BDE 2.9910 BRA 4.3382 BC3 2.0439 FSP -1554

MID-COURSE EXECUTION ACCURACY

SGT 6638.9 SGR 434.8 SG3 428.6
 RRT .3974 RRF .3931 RTF .9868
 SGB 6653.1 R23 -.0006 R13 .9868
 SG1 6641.1 SG2 398.9 THA 1.50

ORBIT DETERMINATION ACCURACY

ST 3528.7 SR 427.9 SS 1397.2
 CRT .8860 CRS -.8571 CST -.9982
 LSA 3813.2 MSA 214.6 SSA 12.9
 EL1 3549.0 EL2 197.3 ALF 6.15

LAUNCH DATE DEC 11 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 590.592

RL 147.29 LAL -.00 LOL 79.02 VL 27.546 GAL 8.81 AZL 86.62 MCA 274.29 SMA 127.21 ECC .21863 INC 3.3791 V1 30.248
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.382 GAP 9.51 AZP 89.75 TAL 144.33 TAP 58.62 RCA 99.40 APO 155.03 V2 34.846
 RC 137.625 GL 16.60 GP -.86 ZAL 38.12 ZAP 162.28 ETS 358.73 ZAE 122.51 ETE 179.35 ZAC 105.34 ETC 166.90 CLP-162.30

PLANETOCENTRIC CONIC

C3 31.532 VHL 5.615 DLA 31.87 RAL 36.00 RAD 6568.3 VEL 12.365 PTH 2.23 VHP 6.654 DPA .75 RAP 11.72 ECC 1.5189
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.74 0 27 27 4030.58 -18.74 169.44 272.94 63.75 1 34 38 3430.6 -22.11 162.12
 105.26 4 25 56 3266.10 -18.73 112.85 272.93 63.74 5 20 22 2666.1 -22.10 105.53
 74.74 0 27 27 4030.58 -18.74 169.44 272.94 63.75 1 34 38 3430.6 -22.11 162.12
 105.26 4 25 56 3266.10 -18.73 112.85 272.93 63.74 5 20 22 2666.1 -22.10 105.53
 110.00 6 31 4 2878.40 -28.28 87.55 277.38 69.94 7 19 2 2278.4 -30.74 79.22
 110.00 3 21 30 3466.28 -9.71 122.89 267.65 57.06 4 19 16 2866.3 -13.98 116.39

DIFFERENTIAL CORRECTIONS

TDE 3.0171 TRA 4.6156 TC3-1.9112 BAU .8061
 RDE .4234 RRA .0058 RC3 .0640 FAU .02530
 FDE 1.9418 FRA 3.3986 FC3 -.6947 BSP 21943
 BDE 3.0466 BRA 4.6156 BC3 1.9123 FSP -1444

MID-COURSE EXECUTION ACCURACY

SGT 6695.8 SGR 438.0 SG3 397.9
 RRT .4141 RRF .4107 RTF .9864
 SGB 6710.1 R23 .0009 R13 .9864
 SG1 6698.2 SG2 398.5 THA 1.56

ORBIT DETERMINATION ACCURACY

ST 3499.8 SR 432.0 SS 1339.2
 CRT .8818 CRS -.8530 CST -.9983
 LSA 3765.7 MSA 217.9 SSA 12.7
 EL1 3520.5 EL2 202.5 ALF 6.23

LAUNCH DATE DEC 11 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 604.202

RL 147.29 LAL -.00 LOL 79.02 VL 27.526 GAL 9.30 AZL 86.63 MCA 277.47 SMA 127.07 ECC .22533 INC 3.3703 V1 30.248
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.376 GAP 10.07 AZP 89.56 TAL 143.48 TAP 60.94 RCA 98.44 APO 155.71 V2 34.855
 RC 139.923 GL 15.91 GP -.82 ZAL 37.10 ZAP 163.79 ETS 358.68 ZAE 122.00 ETE 179.35 ZAC 106.94 ETC 166.88 CLP-163.81

PLANETOCENTRIC CONIC

C3 33.933 VHL 5.825 DLA 31.49 RAL 37.18 RAD 6568.3 VEL 12.462 PTH 2.25 VHP 6.980 DPA 1.47 RAP 13.22 ECC 1.5584
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.62 0 38 14 4030.07 -17.98 169.01 275.20 63.71 1 45 24 3430.1 -21.37 161.73
 104.38 4 24 35 3303.59 -17.97 115.29 275.20 63.70 5 19 39 2703.6 -21.35 108.01
 75.62 0 38 14 4030.07 -17.98 169.01 275.20 63.71 1 45 24 3430.1 -21.37 161.73
 104.38 4 24 35 3303.59 -17.97 115.29 275.20 63.70 5 19 39 2703.6 -21.35 108.01
 110.00 6 43 7 2873.23 -28.40 87.19 280.03 70.12 7 31 0 2273.2 -30.84 78.84
 110.00 3 18 52 3508.42 -8.14 125.14 269.43 56.68 4 17 21 2908.4 -12.47 118.72

DIFFERENTIAL CORRECTIONS

TDE 3.0719 TRA 4.9116 TC3-1.7752 BAU .8058
 RDE .4423 RRA .0164 RC3 .0569 FAU .02191
 FDE 1.8257 FRA 3.3219 FC3 -.5591 BSP 22176
 BDE 3.1036 BRA 4.9116 BC3 1.7761 FSP -1343

MID-COURSE EXECUTION ACCURACY

SGT 6745.4 SGR 440.5 SG3 369.9
 RRT .4324 RRF .4299 RTF .9861
 SGB 6759.8 R23 .0022 R13 .9862
 SG1 6748.1 SG2 397.0 THA 1.62

ORBIT DETERMINATION ACCURACY

ST 3467.2 SR 435.1 SS 1285.8
 CRT .8777 CRS -.8491 CST -.9983
 LSA 3716.9 MSA 220.9 SSA 12.6
 EL1 3488.3 EL2 207.3 ALF 6.31

LAUNCH DATE DEC 11 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 609.742

RL 147.29 LAL -.00 LOL 79.02 VL 27.505 GAL 9.83 AZL 86.64 MCA 280.64 SMA 126.94 ECC .23260 INC 3.3615 V1 30.248
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.369 GAP 10.65 AZP 89.38 TAL 142.62 TAP 63.26 RCA 97.41 APO 156.46 V2 34.865
 RC 142.207 GL 15.22 GP -.79 ZAL 36.09 ZAP 165.26 ETS 358.80 ZAE 121.52 ETE 179.36 ZAC 108.58 ETC 166.84 CLP-165.28

PLANETOCENTRIC CONIC

C3 36.649 VHL 6.054 DLA 31.10 RAL 38.35 RAD 6568.4 VEL 12.571 PTH 2.28 VHP 7.326 DPA 2.20 RAP 14.76 ECC 1.6032
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.58 0 49 36 4028.38 -17.19 168.47 277.51 63.68 1 56 44 3428.4 -20.59 161.23
 103.42 4 22 30 3344.18 -17.18 117.95 277.50 63.67 5 18 15 2744.2 -20.57 110.71
 76.58 0 49 36 4028.38 -17.19 168.47 277.51 63.68 1 56 44 3428.4 -20.59 161.23
 103.42 4 22 30 3344.18 -17.18 117.95 277.50 63.67 5 18 15 2744.2 -20.57 110.71
 110.00 6 54 48 2869.82 -28.48 86.96 282.70 70.24 7 42 37 2269.8 -30.90 78.60
 110.00 3 16 29 3550.75 -6.55 127.39 271.25 56.38 4 15 40 2950.7 -10.93 121.03

DIFFERENTIAL CORRECTIONS

TDE 3.1280 TRA 5.2275 TC3-1.6367 BAU .8023
 RDE .4617 RRA .0288 RC3 .0501 FAU .01876
 FDE 1.7210 FRA 3.2551 FC3 -.4433 BSP 22393
 BDE 3.1619 BRA 5.2275 BC3 1.6375 FSP -1250

MID-COURSE EXECUTION ACCURACY

SGT 6787.8 SGR 442.3 SG3 344.4
 RRT .4521 RRF .4502 RTF .9859
 SGB 6802.2 R23 .0033 R13 .9859
 SG1 6790.7 SG2 394.3 THA 1.69

ORBIT DETERMINATION ACCURACY

ST 3431.1 SR 437.1 SS 1236.8
 CRT .8736 CRS -.8454 CST -.9984
 LSA 3666.4 MSA 223.4 SSA 12.4
 EL1 3452.3 EL2 211.4 ALF 6.37

LAUNCH DATE DEC 12 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 20 1969

HELIOCENTRIC CONIC

DISTANCE 134.130

RL 147.28 LAL -0.00 LOL 80.04 VL 17.169 GAL 23.29 AZL 86.37 MCA 41.37 SMA 88.04 ECC .73370 INC 3.6318 V1 30.251
 RP 107.49 LAP 2.40 LOP 121.35 VP 31.015 GAP -45.84 AZP 87.27 TAL 170.68 TAP 212.05 RCA 23.44 APO 152.63 V2 35.255
 RC 76.644 GL 3.55 GP .27 ZAL 64.38 ZAP 31.57 ETS 179.65 ZAE 137.03 ETE 188.23 ZAC 68.23 ETC 163.98 CLP 31.57

PLANETOCENTRIC CONIC

C3 260.271 VHL 16.133 DLA 9.46 RAL 13.09 RAD 6571.5 VEL 19.534 PTH 3.11 VHP 26.068 DPA -13.25 RAP 336.02 ECC 5.2834
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 31 3068.67 -27.52 101.40 279.84 83.06 6 29 40 2468.7 -28.20 92.80
 90.00 20 0 16 5117.11 24.89 227.50 270.52 76.04 21 25 33 4517.1 22.72 219.50
 100.00 7 4 30 2791.35 -29.17 81.23 280.07 83.16 7 51 2 2191.4 -29.81 72.49
 100.00 21 16 58 4869.67 26.50 208.85 270.07 75.63 22 38 8 4269.7 24.26 200.77
 110.00 8 23 19 2544.74 -33.62 63.12 280.68 83.41 9 5 43 1944.7 -34.16 53.92
 110.00 22 14 39 4689.04 30.82 193.83 268.75 74.43 23 32 48 4089.0 28.38 185.48

DIFFERENTIAL CORRECTIONS

TDE -.6900 TRA-1.8397 TC3 -.0997 BAU .3503
 ROE-1.1412 RRA .5365 RC3 -.0140 FAU .01256
 FDE .3567 FRA .6907 FC3 -.0418 BSP 4245
 BOE 1.3536 BRA 1.9163 BC3 .1007 FSP -77

MID-COURSE EXECUTION ACCURACY

SGT 776.1 SGR 451.3 SG3 26.8
 RRT -.0402 RRF .0199 RTF -.6336
 SGB 897.7 R23 .0186 R13 .6334
 SG1 776.4 SGT 450.7 THA 177.98

ORBIT DETERMINATION ACCURACY

ST 315.6 SR 409.4 SS 331.3
 CRT .6795 CRS .7808 CST .9872
 LSA 571.5 MSA 223.9 SSA 13.3
 EL1 477.3 EL2 198.6 ALF 55.58

LAUNCH DATE DEC 12 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 139.873

RL 147.28 LAL -0.00 LOL 80.04 VL 17.903 GAL 22.26 AZL 86.39 MCA 44.62 SMA 89.57 ECC .70642 INC 3.6055 V1 30.251
 RP 107.48 LAP 2.53 LOP 124.60 VP 31.430 GAP -43.75 AZP 87.43 TAL 169.83 TAP 214.45 RCA 26.30 APO 152.84 V2 35.257
 RC 74.503 GL 3.88 GP .28 ZAL 63.12 ZAP 30.04 ETS 179.79 ZAE 137.24 ETE 188.72 ZAC 69.88 ETC 164.24 CLP 30.04

PLANETOCENTRIC CONIC

C3 237.731 VHL 15.419 DLA 10.25 RAL 14.14 RAD 6571.4 VEL 18.949 PTH 3.07 VHP 25.075 DPA -12.63 RAP 337.67 ECC 4.9125
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 36 22 3082.23 -27.41 102.38 280.33 82.58 6 27 44 2482.2 -28.15 93.79
 90.00 20 10 50 5079.02 24.24 224.90 270.41 74.89 21 35 29 4479.0 21.93 216.99
 100.00 7 2 48 2803.49 -29.07 82.12 280.58 82.70 7 49 31 2203.5 -29.77 73.39
 100.00 21 27 6 4832.99 25.85 206.32 269.92 74.44 22 47 39 4233.0 23.47 198.33
 110.00 8 22 35 2553.82 -33.54 63.82 281.23 83.00 9 5 8 1953.8 -34.15 54.63
 110.00 22 23 48 4655.43 30.18 191.42 268.50 73.14 23 41 23 4055.4 27.58 183.20

DIFFERENTIAL CORRECTIONS

TDE -.7691 TRA-1.9293 TC3 -.1187 BAU .3804
 ROE-1.1026 RRA .5151 RC3 -.0155 FAU .01227
 FDE .3800 FRA .7250 FC3 -.0447 BSP 2523
 BOE 1.3443 BRA 1.9969 BC3 .1197 FSP -64

MID-COURSE EXECUTION ACCURACY

SGT 863.9 SGR 456.1 SG3 29.2
 RRT -.0181 RRF .0130 RTF -.6497
 SGB 976.9 R23 .0032 R13 .6497
 SG1 864.0 SGT 456.0 THA 179.24

ORBIT DETERMINATION ACCURACY

ST 359.9 SR 413.9 SS 354.0
 CRT .7005 CRS .7845 CST .9905
 LSA 610.7 MSA 230.3 SSA 14.0
 EL1 506.8 EL2 209.8 ALF 50.63

LAUNCH DATE DEC 12 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 145.715

RL 147.28 LAL -0.00 LOL 80.04 VL 18.591 GAL 21.27 AZL 86.42 MCA 47.86 SMA 91.11 ECC .67943 INC 3.5821 V1 30.251
 RP 107.48 LAP 2.66 LOP 127.85 VP 31.828 GAP -41.77 AZP 87.60 TAL 169.00 TAP 216.86 RCA 29.21 APO 153.02 V2 35.258
 RC 72.381 GL 4.21 GP .29 ZAL 61.93 ZAP 28.53 ETS 179.94 ZAE 137.54 ETE 189.23 ZAC 71.56 ETC 164.50 CLP 28.53

PLANETOCENTRIC CONIC

C3 217.222 VHL 14.738 DLA 11.02 RAL 15.14 RAD 6571.2 VEL 18.399 PTH 3.04 VHP 24.116 DPA -12.00 RAP 339.33 ECC 4.5749
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 34 1 3094.92 -27.29 103.29 280.71 82.14 6 25 36 2494.9 -28.10 94.71
 90.00 20 21 10 5040.47 23.53 222.29 270.24 73.77 21 45 10 4440.5 21.08 214.48
 100.00 7 0 53 2814.75 -28.97 82.94 280.97 82.28 7 47 48 2214.7 -29.73 74.22
 100.00 21 36 58 4795.87 25.15 203.78 269.71 73.29 22 56 54 4195.9 22.62 195.90
 110.00 8 21 39 2561.99 -33.47 64.45 281.66 82.63 9 4 21 1962.0 -34.13 55.26
 110.00 22 32 41 4621.40 29.49 189.02 268.18 71.87 23 49 43 4021.4 26.73 180.92

DIFFERENTIAL CORRECTIONS

TDE -.7759 TRA-1.9460 TC3 -.1267 BAU .3714
 ROE-1.0649 RRA .4923 RC3 -.0174 FAU .01237
 FDE .3954 FRA .7516 FC3 -.0493 BSP 2544
 BOE 1.3176 BRA 2.0073 BC3 .1279 FSP -69

MID-COURSE EXECUTION ACCURACY

SGT 908.0 SGR 480.5 SG3 31.6
 RRT -.0149 RRF .0110 RTF -.6680
 SGB 1018.1 R23 .0024 R13 .6680
 SG1 908.1 SGT 480.4 THA 179.42

ORBIT DETERMINATION ACCURACY

ST 380.2 SR 418.1 SS 370.5
 CRT .7005 CRS .7856 CST .9904
 LSA 633.0 MSA 236.1 SSA 14.3
 EL1 521.6 EL2 217.5 ALF 48.87

LAUNCH DATE DEC 12 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 151.655

RL 147.28 LAL -0.00 LOL 80.04 VL 19.235 GAL 20.34 AZL 86.44 MCA 51.11 SMA 92.66 ECC .65288 INC 3.5610 V1 30.251
 RP 107.48 LAP 2.77 LOP 131.10 VP 32.209 GAP -39.89 AZP 87.76 TAL 168.17 TAP 219.28 RCA 32.17 APO 153.16 V2 35.259
 RC 70.281 GL 4.56 GP .29 ZAL 60.79 ZAP 27.05 ETS 180.09 ZAE 137.93 ETE 189.78 ZAC 73.26 ETC 164.74 CLP 27.05

PLANETOCENTRIC CONIC

C3 198.574 VHL 14.092 DLA 11.79 RAL 16.09 RAD 6571.1 VEL 17.886 PTH 3.00 VHP 23.190 DPA -11.35 RAP 340.99 ECC 4.2680
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 31 27 3106.85 -27.18 104.14 280.97 81.72 6 23 14 2506.8 -28.04 95.58
 90.00 20 31 17 5001.38 22.76 219.68 270.00 72.68 21 54 39 4401.4 20.17 211.97
 100.00 6 58 46 2823.21 -28.87 83.70 281.24 81.89 7 45 52 2225.2 -29.69 74.99
 100.00 21 46 39 4758.25 24.39 201.25 269.44 72.16 23 5 57 4158.3 21.72 193.47
 110.00 8 20 33 2569.32 -33.41 65.01 281.98 82.31 9 3 22 1969.3 -34.11 55.84
 110.00 22 41 22 4586.90 28.73 186.61 267.81 70.63 23 57 49 3986.9 25.82 178.64

DIFFERENTIAL CORRECTIONS

TDE -.7791 TRA-1.9582 TC3 -.1341 BAU .3598
 ROE-1.0274 RRA .4693 RC3 -.0194 FAU .01251
 FDE .4109 FRA .7781 FC3 -.0545 BSP 2665
 BOE 1.2894 BRA 2.0137 BC3 .1355 FSP -76

MID-COURSE EXECUTION ACCURACY

SGT 951.2 SGR 464.2 SG3 34.1
 RRT -.0125 RRF .0089 RTF -.6858
 SGB 1058.5 R23 .0023 R13 .6858
 SG1 951.2 SGT 464.2 THA 179.54

ORBIT DETERMINATION ACCURACY

ST 400.0 SR 421.8 SS 387.1
 CRT .6998 CRS .7866 CST .9901
 LSA 655.1 MSA 241.6 SSA 14.5
 EL1 536.1 EL2 224.8 ALF 47.17

LAUNCH DATE DEC 12 1968

FLIGHT TIME 78.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -0.00 LOL 80.04 VL 19.839 GAL 19.45 AZL 86.46 MCA 54.36 SMA 94.21 ECC .62685 INC 3.5417 V1 30.251
 RP 107.48 LAP 2.88 LOP 134.35 VP 32.572 GAP -38.10 AZP 87.93 TAL 167.36 TAP 221.72 RCA 35.16 APO 153.27 V2 35.259
 RC 68.209 GL 4.92 GP .30 ZAL 59.71 ZAP 25.58 ETS 180.25 ZAE 138.43 ETE 190.36 ZAC 74.98 ETC 164.96 CLP 25.58

PLANETOCENTRIC CONIC

C3 181.601 VML 13.476 DLA 12.54 RAL 16.99 RAD 6571.0 VEL 17.405 PTH 2.96 VMP 22.295 DPA -10.68 RAP 342.67 ECC 3.9887
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 40 3118.05 -27.06 104.94 281.12 81.34 6 20 38 2518.0 -27.98 96.40
 90.00 20 41 14 4961.71 21.93 217.07 269.72 71.62 22 3 56 4361.7 19.22 209.45
 100.00 6 56 27 2834.90 -28.77 84.41 281.41 81.53 7 43 42 2234.9 -29.65 75.71
 100.00 21 56 7 4720.09 23.57 198.71 269.12 71.06 23 14 47 4120.1 20.77 191.03
 110.00 8 19 15 2575.84 -33.35 65.51 282.18 82.02 9 2 11 1975.8 -34.09 56.34
 110.00 22 49 49 4551.92 27.92 184.22 267.39 69.42 24 5 41 3951.9 24.86 176.38

DIFFERENTIAL CORRECTIONS

TOE -.7824 TRA-1.9697 TC3 -.1416 BAU .3477
 RDE -.9899 RRA .4463 RC3 -.0216 FAU .01268
 FDE .4268 FRA .8052 FC3 -.0604 BSP 2795
 BOE 1.2618 BRA 2.0196 BC3 .1432 FSP -83

MID-COURSE EXECUTION ACCURACY

SGT 996.1 SGR 467.3 SG3 36.9
 RRT -.0096 RRF .0065 RTP -.7030
 SGB 1100.3 R23 .0022 R13 .7030
 SG1 996.1 SG2 467.2 THA 179.67

ORBIT DETERMINATION ACCURACY

ST 420.8 SR 424.9 SS 404.2
 CRT .6993 CRS .7878 CST .9899
 LSA 678.1 MSA 246.7 SSA 14.7
 EL1 551.2 EL2 231.9 ALF 45.40

LAUNCH DATE DEC 12 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -0.00 LOL 80.04 VL 20.404 GAL 18.60 AZL 86.48 MCA 57.61 SMA 95.76 ECC .60143 INC 3.5239 V1 30.251
 RP 107.48 LAP 2.98 LOP 137.60 VP 32.919 GAP -36.39 AZP 88.11 TAL 166.57 TAP 224.18 RCA 38.17 APO 153.35 V2 35.257
 RC 66.167 GL 5.29 GP .31 ZAL 58.69 ZAP 24.13 ETS 180.43 ZAE 139.03 ETE 190.98 ZAC 76.71 ETC 165.18 CLP 24.12

PLANETOCENTRIC CONIC

C3 186.140 VML 12.890 DLA 13.28 RAL 17.83 RAD 6570.8 VEL 16.955 PTH 2.92 VMP 21.430 DPA -9.99 RAP 344.36 ECC 3.7342
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 25 39 3128.56 -26.95 105.69 281.15 80.98 6 17 47 2528.6 -27.93 97.16
 90.00 20 51 0 4921.43 21.04 214.45 269.38 70.60 22 13 1 4321.4 18.20 206.93
 100.00 6 53 55 2843.87 -28.68 85.06 281.46 81.20 7 41 19 2243.9 -29.60 76.38
 100.00 22 5 25 4681.35 22.69 196.17 268.74 70.00 23 23 26 4081.3 19.76 188.60
 110.00 8 17 45 2581.56 -33.29 65.94 282.27 81.76 9 0 47 1981.6 -34.07 56.79
 110.00 22 58 4 4516.42 27.05 181.83 266.91 68.25 24 13 20 3916.4 23.85 174.12

DIFFERENTIAL CORRECTIONS

TOE -.7832 TRA-1.9774 TC3 -.1482 BAU .3336
 RDE -.9526 RRA .4233 RC3 -.0240 FAU .01288
 FDE .4430 FRA .8325 FC3 -.0671 BSP 2999
 BOE 1.2333 BRA 2.0222 BC3 .1502 FSP -92

MID-COURSE EXECUTION ACCURACY

SGT 1040.6 SGR 469.6 SG3 39.9
 RRT -.0071 RRF .0039 RTP -.7196
 SGB 1141.7 R23 .0025 R13 .7196
 SG1 1040.6 SG2 469.6 THA 179.77

ORBIT DETERMINATION ACCURACY

ST 441.3 SR 427.4 SS 421.5
 CRT .6984 CRS .7890 CST .9895
 LSA 701.2 MSA 251.4 SSA 14.8
 EL1 566.2 EL2 238.4 ALF 43.69

LAUNCH DATE DEC 12 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -0.00 LOL 80.04 VL 20.934 GAL 17.79 AZL 86.49 MCA 60.86 SMA 97.30 ECC .57667 INC 3.5074 V1 30.251
 RP 107.49 LAP 3.06 LOP 140.85 VP 33.248 GAP -34.77 AZP 88.29 TAL 165.80 TAP 226.66 RCA 41.19 APO 153.41 V2 35.256
 RC 64.161 GL 5.68 GP .33 ZAL 57.72 ZAP 22.69 ETS 180.61 ZAE 139.74 ETE 191.65 ZAC 78.46 ETC 165.38 CLP 22.69

PLANETOCENTRIC CONIC

C3 152.049 VML 12.331 DLA 14.02 RAL 18.63 RAD 6570.7 VEL 16.534 PTH 2.88 VMP 20.593 DPA -9.29 RAP 346.05 ECC 3.5023
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 22 23 3138.43 -26.85 106.39 281.08 80.64 6 14 41 2538.4 -27.87 97.88
 90.00 21 0 36 4880.49 20.09 211.83 268.99 69.62 22 21 56 4280.5 17.14 204.40
 100.00 6 51 9 2852.15 -28.60 85.66 281.40 80.90 7 38 41 2252.2 -29.56 76.99
 100.00 22 14 31 4642.00 21.75 193.62 268.32 68.97 23 31 53 4042.0 18.70 186.16
 110.00 8 16 2 2586.53 -33.24 66.32 282.24 81.54 8 59 9 1986.5 -34.06 57.18
 110.00 23 6 7 4480.39 26.11 179.44 266.39 67.12 24 20 47 3880.4 22.79 171.86

DIFFERENTIAL CORRECTIONS

TOE -.7874 TRA-1.9873 TC3 -.1555 BAU .3207
 RDE -.9155 RRA .4004 RC3 -.0266 FAU .01310
 FDE .4603 FRA .8608 FC3 -.0746 BSP 3132
 BOE 1.2076 BRA 2.0272 BC3 .1578 FSP -100

MID-COURSE EXECUTION ACCURACY

SGT 1089.4 SGR 471.2 SG3 43.2
 RRT -.0033 RRF .0006 RTP -.7352
 SGB 1186.9 R23 .0023 R13 .7352
 SG1 1089.4 SG2 471.2 THA 179.90

ORBIT DETERMINATION ACCURACY

ST 464.2 SR 429.3 SS 439.7
 CRT .6987 CRS .7905 CST .9893
 LSA 726.4 MSA 255.5 SSA 15.0
 EL1 583.1 EL2 244.5 ALF 41.80

LAUNCH DATE DEC 12 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -0.00 LOL 80.04 VL 21.431 GAL 17.01 AZL 86.51 MCA 64.10 SMA 98.82 ECC .55263 INC 3.4919 V1 30.251
 RP 107.50 LAP 3.14 LOP 144.10 VP 33.560 GAP -33.21 AZP 88.47 TAL 165.05 TAP 229.15 RCA 44.21 APO 153.44 V2 35.253
 RC 62.196 GL 6.07 GP .34 ZAL 56.81 ZAP 21.27 ETS 180.81 ZAE 140.57 ETE 192.37 ZAC 80.23 ETC 165.56 CLP 21.27

PLANETOCENTRIC CONIC

C3 139.197 VML 11.798 DLA 14.74 RAL 19.37 RAD 6570.5 VEL 16.141 PTH 2.84 VMP 19.783 DPA -8.57 RAP 347.75 ECC 3.2908
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 51 3147.72 -26.74 107.05 280.90 80.33 6 11 19 2547.7 -27.81 98.55
 90.00 21 10 3 4838.88 19.08 209.19 268.54 68.68 22 30 42 4238.9 16.02 201.86
 100.00 6 48 8 2859.80 -28.51 86.21 281.23 80.62 7 35 48 2259.8 -29.51 77.55
 100.00 22 23 27 4602.03 20.75 191.07 267.84 67.99 23 40 9 4002.0 17.58 183.71
 110.00 8 14 7 2590.78 -33.20 66.65 282.10 81.36 8 57 18 1990.8 -34.04 57.51
 110.00 23 13 58 4443.81 25.12 177.06 265.83 66.02 24 28 2 3843.8 21.67 169.61

DIFFERENTIAL CORRECTIONS

TOE -.7893 TRA-1.9934 TC3 -.1618 BAU .3060
 RDE -.8787 RRA .3777 RC3 -.0294 FAU .01335
 FDE .4780 FRA .8895 FC3 -.0831 BSP 3334
 BOE 1.1811 BRA 2.0288 BC3 .1645 FSP -110

MID-COURSE EXECUTION ACCURACY

SGT 1137.8 SGR 472.1 SG3 46.7
 RRT .0004 RRF -.0029 RTP -.7504
 SGB 1231.9 R23 -.0026 R13 -.7504
 SG1 1137.8 SG2 472.1 THA .01

ORBIT DETERMINATION ACCURACY

ST 487.1 SR 430.5 SS 458.2
 CRT .6987 CRS .7921 CST .9890
 LSA 751.8 MSA 259.1 SSA 15.1
 EL1 600.1 EL2 250.0 ALF 39.98

LAUNCH DATE DEC 12 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 182.627

RL 147.28 LAL -0.00 LOL 80.04 VL 21.896 GAL 16.26 AZL 86.52 MCA 67.35 SMA 100.33 ECC .52934 INC 3.4772 V1 30.251
 RP 107.51 LAP 3.21 LOP 147.35 VP 33.856 GAP -31.72 AZP 88.66 TAL 164.33 TAP 231.68 RCA 47.22 APO 153.44 V2 35.250
 RC 60.278 GL 6.48 GP .35 ZAL 55.96 ZAP 19.06 ETS 181.03 ZAE 141.51 ETE 193.15 ZAC 82.00 ETC 165.73 CLP 19.86

PLANETOCENTRIC CONIC

C3 127.473 VHL 11.290 DLA 15.45 RAL 20.06 RAD 6570.4 VEL 15.774 PTH 2.80 VHP 18.999 DPA -7.84 RAP 349.46 ECC 3.0979
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 15 3 3156.50 -26.64 107.68 280.60 80.03 6 7 40 2556.5 -27.75 99.18
 90.00 21 19 21 4796.55 18.02 206.54 268.05 67.78 22 39 18 4196.6 14.85 199.30
 100.00 6 44 52 2866.87 -28.43 86.72 280.95 80.36 7 32 39 2266.9 -29.47 78.07
 100.00 22 32 13 4561.42 19.69 188.52 267.32 67.05 23 48 15 3961.4 16.42 181.26
 110.00 8 11 58 2594.36 -33.16 66.92 281.85 81.20 8 55 12 1994.4 -34.02 57.79
 110.00 23 21 37 4406.69 24.08 174.68 265.22 64.97 24 35 4 3806.7 20.50 167.36

DIFFERENTIAL CORRECTIONS

TDE -.7914 TRA-1.9981 TC3 -.1677 BAU .2911
 RDE -.8422 RRA .3552 RC3 -.0323 FAU .01364
 FDE .4966 FRA .9189 FC3 -.0927 BSP 3539
 BOE 1.1557 BRA 2.0294 BC3 .1708 FSP -121

MID-COURSE EXECUTION ACCURACY

SGT 1188.0 SGR 472.2 SG3 50.5
 RRT .0045 RRF -.0070 RTF -.7649
 SGB 1278.4 R23 -.0029 R13 -.7650
 SGI 1188.0 SGT 472.2 THA .12

ORBIT DETERMINATION ACCURACY

ST 510.9 SR 431.1 SS 477.5
 CRT .6991 CRS .7939 CST .9888
 LSA 778.4 MSA 262.1 SSA 15.3
 EL1 618.0 EL2 254.8 ALF 38.14

LAUNCH DATE DEC 12 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 189.034

RL 147.28 LAL -0.00 LOL 80.04 VL 22.332 GAL 15.54 AZL 86.54 MCA 70.60 SMA 101.81 ECC .50683 INC 3.4632 V1 30.251
 RP 107.52 LAP 3.27 LOP 150.60 VP 34.135 GAP -30.30 AZP 88.85 TAL 163.63 TAP 234.22 RCA 50.21 APO 153.42 V2 35.246
 RC 58.412 GL 6.91 GP .37 ZAL 55.16 ZAP 18.46 ETS 181.26 ZAE 142.57 ETE 193.99 ZAC 83.79 ETC 165.89 CLP 18.45

PLANETOCENTRIC CONIC

C3 116.776 VHL 10.806 DLA 16.16 RAL 20.70 RAD 6570.2 VEL 15.431 PTH 2.76 VHP 18.239 DPA -7.10 RAP 351.16 ECC 2.9218
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 58 3164.84 -26.54 108.27 280.20 79.75 6 3 43 2564.8 -27.69 99.79
 90.00 21 28 32 4753.49 16.89 203.89 267.52 66.93 22 47 45 4153.5 13.62 196.74
 100.00 6 41 20 2873.42 -28.36 87.19 280.56 80.12 7 29 13 2273.4 -29.43 78.56
 100.00 22 40 51 4520.15 18.58 185.96 266.75 66.15 23 56 11 3920.1 15.20 178.80
 110.00 8 9 35 2597.31 -33.13 67.15 281.48 81.07 8 52 52 1997.3 -34.01 58.02
 110.00 23 29 5 4369.02 22.97 172.32 264.57 63.96 24 41 54 3769.0 19.28 165.12

DIFFERENTIAL CORRECTIONS

TDE -.7966 TRA-2.0040 TC3 -.1739 BAU .2771
 RDE -.8061 RRA .3331 RC3 -.0355 FAU .01395
 FDE .5166 FRA .9497 FC3 -.1034 BSP 3689
 BOE 1.1333 BRA 2.0315 BC3 .1775 FSP -132

MID-COURSE EXECUTION ACCURACY

SGT 1242.4 SGR 471.5 SG3 54.6
 RRT .0101 RRF -.0119 RTF -.7786
 SGB 1328.9 R23 -.0027 R13 -.7786
 SGI 1242.4 SGT 471.5 THA .26

ORBIT DETERMINATION ACCURACY

ST 537.3 SR 430.9 SS 497.8
 CRT .7007 CRS .7960 CST .9887
 LSA 807.5 MSA 264.4 SSA 15.4
 EL1 638.3 EL2 258.8 ALF 36.20

LAUNCH DATE DEC 12 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 195.498

RL 147.28 LAL -0.00 LOL 80.04 VL 22.741 GAL 14.85 AZL 86.55 MCA 73.84 SMA 103.27 ECC .48513 INC 3.4497 V1 30.251
 RP 107.53 LAP 3.31 LOP 153.85 VP 34.399 GAP -28.93 AZP 89.04 TAL 162.96 TAP 236.80 RCA 53.17 APO 153.37 V2 35.241
 RC 56.605 GL 7.35 GP .38 ZAL 54.42 ZAP 17.07 ETS 181.52 ZAE 143.77 ETE 194.92 ZAC 85.58 ETC 166.03 CLP 17.06

PLANETOCENTRIC CONIC

C3 107.013 VHL 10.345 DLA 16.86 RAL 21.28 RAD 6570.1 VEL 15.111 PTH 2.72 VHP 17.504 DPA -6.35 RAP 352.86 ECC 2.7612
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 33 3172.83 -26.44 108.83 279.69 79.48 5 59 26 2572.8 -27.63 100.36
 90.00 21 37 36 4709.69 15.70 201.22 266.94 66.13 22 56 5 4109.7 12.34 194.15
 100.00 6 37 30 2879.54 -28.28 87.63 280.07 79.90 7 25 30 2279.5 -29.39 79.01
 100.00 22 49 20 4478.21 17.40 183.40 266.14 65.31 24 3 58 3878.2 13.93 176.33
 110.00 8 6 57 2599.69 -33.11 67.33 281.02 80.96 8 50 17 1999.7 -34.00 58.20
 110.00 23 36 23 4330.82 21.81 169.96 263.88 63.00 24 48 34 3730.8 18.01 162.89

DIFFERENTIAL CORRECTIONS

TDE -.7997 TRA-2.0059 TC3 -.1788 BAU .2617
 RDE -.7704 RRA .3113 RC3 -.0388 FAU .01431
 FDE .5374 FRA .9811 FC3 -.1158 BSP 3897
 BOE 1.1104 BRA 2.0299 BC3 .1829 FSP -145

MID-COURSE EXECUTION ACCURACY

SGT 1296.4 SGR 470.1 SG3 59.1
 RRT .0157 RRF -.0171 RTF -.7917
 SGB 1379.0 R23 -.0028 R13 -.7917
 SGI 1296.4 SGT 470.1 THA .37

ORBIT DETERMINATION ACCURACY

ST 563.6 SR 430.1 SS 518.8
 CRT .7022 CRS .7983 CST .9885
 LSA 837.0 MSA 266.1 SSA 15.6
 EL1 658.8 EL2 262.0 ALF 34.36

LAUNCH DATE DEC 12 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 202.014

RL 147.28 LAL -0.00 LOL 80.04 VL 23.123 GAL 14.19 AZL 86.56 MCA 77.09 SMA 104.70 ECC .46425 INC 3.4367 V1 30.251
 RP 107.55 LAP 3.35 LOP 157.10 VP 34.647 GAP -27.62 AZP 89.23 TAL 162.32 TAP 239.40 RCA 56.09 APO 153.31 V2 35.235
 RC 54.864 GL 7.80 GP .40 ZAL 53.74 ZAP 15.68 ETS 181.81 ZAE 145.10 ETE 195.95 ZAC 87.38 ETC 166.16 CLP 15.68

PLANETOCENTRIC CONIC

C3 98.103 VHL 9.905 DLA 17.55 RAL 21.81 RAD 6569.9 VEL 14.814 PTH 2.68 VHP 16.792 DPA -5.59 RAP 354.57 ECC 2.6145
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 1 49 3180.56 -26.35 109.38 279.08 79.23 5 54 50 2580.6 -27.57 100.92
 90.00 21 46 34 4663.12 14.45 188.54 266.33 65.38 23 4 19 4065.1 11.01 191.55
 100.00 6 33 23 2885.29 -28.21 88.05 279.48 79.69 7 21 28 2285.3 -29.35 79.43
 100.00 22 57 41 4435.62 16.18 180.84 265.49 64.51 24 11 37 3835.6 12.61 173.86
 110.00 8 4 4 2601.58 -33.09 67.47 280.45 80.88 8 47 25 2001.6 -33.99 58.35
 110.00 23 43 30 4292.10 20.59 167.61 263.15 62.09 24 55 2 3692.1 16.70 160.65

DIFFERENTIAL CORRECTIONS

TDE -.8030 TRA-2.0060 TC3 -.1827 BAU .2459
 RDE -.7353 RRA .2899 RC3 -.0422 FAU .01472
 FDE .5595 FRA 1.0136 FC3 -.1299 BSP 4116
 BOE 1.0888 BRA 2.0268 BC3 .1875 FSP -159

MID-COURSE EXECUTION ACCURACY

SGT 1352.0 SGR 467.8 SG3 64.0
 RRT .0219 RRF -.0231 RTF -.8042
 SGB 1430.7 R23 -.0031 R13 -.8042
 SGI 1352.1 SGT 467.7 THA .49

ORBIT DETERMINATION ACCURACY

ST 590.9 SR 428.6 SS 540.6
 CRT .7041 CRS .8009 CST .9883
 LSA 868.1 MSA 267.1 SSA 15.7
 EL1 680.5 EL2 264.3 ALF 32.56

LAUNCH DATE DEC 12 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC
 RL 147.28 LAL -.00 LOL 80.04 VL 23.481 GAL 13.55 AZL 86.58 MCA 80.33 SMA 106.10 ECC .44419 INC 3.4240 V1 30.251
 RP 107.57 LAP 3.38 LOP 160.35 VP 34.881 GAP -26.36 AZP 89.42 TAL 161.71 TAP 242.04 RCA 58.97 APO 153.22 V2 35.229
 RC 53.197 GL 8.26 GP .42 ZAL 53.12 ZAP 14.30 ETS 182.15 ZAE 146.56 ETE 197.10 ZAC 89.17 ETC 166.27 CLP 14.29

PLANETOCENTRIC CONIC
 C3 89.973 VHL 9.485 OLA 18.23 RAL 22.29 RAD 6569.8 VEL 14.537 PTH 2.64 WHP 16.102 DPA -4.82 RAP 356.27 ECC 2.4807
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 44 3188.14 -26.25 109.91 278.38 78.98 5 49 52 2588.1 -27.50 101.47
 90.00 21 55 27 4619.77 13.15 195.85 265.67 64.69 23 12 27 4019.8 9.63 188.94
 100.00 6 28 57 2890.78 -28.15 88.44 278.78 79.50 7 17 8 2290.8 -29.31 79.83
 100.00 23 5 55 4392.36 14.89 178.27 264.80 63.78 24 19 8 3792.4 11.25 171.37
 110.00 8 0 55 2603.02 -33.07 67.58 279.77 80.82 8 44 18 2003.0 -33.99 58.46
 110.00 23 50 26 4252.83 19.33 165.28 262.39 61.24 25 1 19 3652.8 15.34 158.43

DIFFERENTIAL CORRECTIONS
 TOE -.8067 TRA-2.0044 TC3 -.1857 BAU .2300 SGT 1409.4 SGR 464.8 SG3 69.4 ST 619.5 SR 426.4 SS 563.5
 ROE -.7008 RRA .2689 RC3 -.0459 FAU .01516 RRT .0289 RRF -.0297 RTE -.8160 CRT .7067 CRS .8038 CST .9882
 FDE .5831 FRA 1.0474 FC3 -.1459 BSP 4336 SGB 1484.1 R23 -.0033 R13 -.8161 LSA 900.8 MSA 267.4 SSA 15.8
 BOE 1.0686 BRA 2.0224 BC3 .1913 FSP -174 SGI 1409.5 SGT 464.6 TMA .61 ELI 703.6 EL2 265.7 ALF 30.80

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 12 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC
 RL 147.28 LAL -.00 LOL 80.04 VL 23.816 GAL 12.94 AZL 86.59 MCA 83.57 SMA 107.46 ECC .42496 INC 3.4116 V1 30.251
 RP 107.59 LAP 3.39 LOP 163.60 VP 35.100 GAP -25.15 AZP 89.62 TAL 161.13 TAP 244.70 RCA 61.79 APO 153.12 V2 35.222
 RC 51.611 GL 8.74 GP .44 ZAL 52.55 ZAP 12.92 ETS 182.53 ZAE 148.16 ETE 198.39 ZAC 90.97 ETC 166.36 CLP 12.91

PLANETOCENTRIC CONIC
 C3 82.555 VHL 9.086 OLA 18.91 RAL 22.71 RAD 6569.6 VEL 14.279 PTH 2.60 WHP 15.435 DPA -4.04 RAP 357.97 ECC 2.3586
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 51 17 3195.69 -26.15 110.44 277.57 78.73 5 44 32 2595.7 -27.44 102.01
 90.00 22 4 16 4573.65 11.79 193.14 264.98 64.07 23 20 30 3973.7 8.21 186.30
 100.00 6 24 11 2896.10 -28.08 88.82 277.99 79.31 7 12 27 2296.1 -29.27 80.22
 100.00 23 14 3 4348.47 13.55 175.69 264.09 63.10 24 26 32 3748.5 9.84 168.87
 110.00 7 57 31 2604.11 -33.06 67.66 279.01 80.77 8 40 55 2004.1 -33.98 58.55
 110.00 0 1 9 4213.22 18.01 162.95 261.80 80.44 1 11 22 3613.2 13.94 156.21

DIFFERENTIAL CORRECTIONS
 TOE -.8108 TRA-2.0008 TC3 -.1873 BAU .2139 SGT 1468.4 SGR 461.0 SG3 75.2 ST 649.3 SR 423.5 SS 587.6
 ROE -.6670 RRA .2485 RC3 -.0496 FAU .01586 RRT .0367 RRF -.0372 RTE -.8273 CRT .7098 CRS .8069 CST .9881
 FDE .6084 FRA 1.0827 FC3 -.1643 BSP 4564 SGB 1539.0 R23 -.0035 R13 -.8274 LSA 935.3 MSA 267.0 SSA 15.9
 BOE 1.0499 BRA 2.0182 BC3 .1938 FSP -191 SGI 1468.5 SGT 460.6 TMA .73 ELI 728.2 EL2 266.0 ALF 29.09

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 12 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC
 RL 147.28 LAL -.00 LOL 80.04 VL 24.130 GAL 12.36 AZL 86.60 MCA 86.81 SMA 108.78 ECC .40656 INC 3.3993 V1 30.251
 RP 107.61 LAP 3.39 LOP 166.84 VP 35.306 GAP -23.98 AZP 89.81 TAL 160.59 TAP 247.40 RCA 64.56 APO 153.01 V2 35.215
 RC 50.116 GL 9.24 GP .47 ZAL 52.05 ZAP 11.54 ETS 183.00 ZAE 149.90 ETE 199.86 ZAC 92.77 ETC 166.44 CLP 11.53

PLANETOCENTRIC CONIC
 C3 75.789 VHL 8.706 OLA 19.58 RAL 23.08 RAD 6569.5 VEL 14.041 PTH 2.56 WHP 14.788 DPA -3.26 RAP 359.66 ECC 2.2473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 26 3203.33 -26.05 110.98 276.67 78.48 5 38 49 2603.3 -27.37 102.56
 90.00 22 13 3 4526.76 10.38 190.42 264.26 63.51 23 28 30 3926.8 6.74 183.63
 100.00 6 19 4 2901.36 -28.01 89.20 277.11 79.12 7 7 26 2301.4 -29.23 80.61
 100.00 23 22 5 4303.96 12.17 173.11 263.34 62.48 24 33 49 3704.0 8.39 166.37
 110.00 7 53 49 2604.93 -33.05 67.73 278.15 80.74 8 37 14 2004.9 -33.98 58.61
 110.00 0 7 46 4173.15 16.65 160.64 260.78 59.71 1 17 19 3573.2 12.50 153.99

DIFFERENTIAL CORRECTIONS
 TOE -.8180 TRA-1.9978 TC3 -.1890 BAU .1990 SGT 1531.8 SGR 456.3 SG3 81.6 ST 682.1 SR 420.0 SS 613.4
 ROE -.6339 RRA .2285 RC3 -.0535 FAU .01620 RRT .0465 RRF -.0459 RTE -.8377 CRT .7142 CRS .8105 CST .9882
 FDE .6362 FRA 1.1200 FC3 -.1850 BSP 4733 SGB 1598.1 R23 -.0032 R13 -.8378 LSA 973.1 MSA 265.6 SSA 16.0
 BOE 1.0349 BRA 2.0109 BC3 .1964 FSP -209 SGI 1531.7 SGT 455.8 TMA .87 ELI 755.8 EL2 265.3 ALF 27.39

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 12 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC
 RL 147.28 LAL -.00 LOL 80.04 VL 24.423 GAL 11.80 AZL 86.61 MCA 90.05 SMA 110.07 ECC .38899 INC 3.3871 V1 30.251
 RP 107.64 LAP 3.39 LOP 170.09 VP 35.499 GAP -22.86 AZP 90.00 TAL 160.09 TAP 250.14 RCA 67.25 APO 152.88 V2 35.207
 RC 48.721 GL 9.75 GP .50 ZAL 51.60 ZAP 10.16 ETS 183.58 ZAE 151.78 ETE 201.56 ZAC 94.56 ETC 166.50 CLP 10.15

PLANETOCENTRIC CONIC
 C3 69.620 VHL 8.344 OLA 20.24 RAL 23.39 RAD 6569.3 VEL 13.819 PTH 2.52 WHP 14.161 DPA -2.47 RAP 1.34 ECC 2.1458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 10 3211.20 -25.94 111.53 275.68 78.22 5 32 41 2611.2 -27.30 103.13
 90.00 22 21 48 4479.07 8.92 187.68 263.52 63.01 23 36 27 3879.1 5.23 180.94
 100.00 6 13 36 2906.66 -27.95 89.58 276.14 78.93 7 2 3 2306.7 -29.19 81.00
 100.00 23 30 3 4258.85 10.74 170.55 262.56 61.93 24 41 2 3658.9 6.90 163.84
 110.00 7 49 51 2605.54 -33.04 67.77 277.20 80.71 8 33 17 2005.5 -33.97 58.66
 110.00 0 14 13 4132.72 15.25 158.35 259.94 59.03 1 23 6 3532.7 11.03 151.79

DIFFERENTIAL CORRECTIONS
 TOE -.8232 TRA-1.9906 TC3 -.1879 BAU .1828 SGT 1593.9 SGR 450.9 SG3 88.5 ST 714.6 SR 415.7 SS 640.2
 ROE -.6017 RRA .2092 RC3 -.0574 FAU .01681 RRT .0564 RRF -.0554 RTE -.8478 CRT .7187 CRS .8144 CST .9882
 FDE .6656 FRA 1.1587 FC3 -.2090 BSP 4958 SGB 1656.4 R23 -.0034 R13 -.8478 LSA 1011.7 MSA 263.7 SSA 16.1
 BOE 1.0196 BRA 2.0016 BC3 .1964 FSP -229 SGI 1594.1 SGT 450.1 TMA .99 ELI 783.5 EL2 263.6 ALF 25.82

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 12 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 235.198

RL 147.28 LAL -.00 LOL 80.04 VL 24.697 GAL 11.26 AZL 86.63 MCA 93.29 SMA 111.31 ECC .37223 INC 3.3750 V1 30.251
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.680 GAP -21.78 AZP 90.19 TAL 159.62 TAP 252.91 RCA 69.88 APO 152.74 V2 35.198
 RC 47.437 GL 10.27 GP .53 ZAL 51.21 ZAP 8.77 ETS 184.32 ZAE 153.80 ETE 203.56 ZAC 96.34 ETC 166.54 CLP 8.76

PLANETOCENTRIC CONIC

C3 63.996 VHL 8.000 DLA 20.90 RAL 23.65 RAD 6569.2 VEL 13.614 PTH 2.49 VHP 13.555 OPA -1.68 RAP 3.01 ECC 2.0532
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 27 3219.45 -25.82 112.10 274.61 77.96 5 26 6 2619.5 -27.22 103.72
 90.00 22 30 34 4430.60 7.41 184.92 262.75 62.59 23 44 24 3630.6 3.68 178.22
 100.00 6 7 46 2912.11 -27.87 89.97 275.08 78.74 6 56 18 2312.1 -29.14 81.40
 100.00 23 37 56 4213.16 9.26 167.94 261.76 61.45 24 48 9 3613.2 5.38 161.31
 110.00 7 45 35 2606.04 -33.04 67.81 276.17 80.69 8 29 1 2006.0 -33.97 58.70
 110.00 0 20 32 4092.00 13.81 156.07 259.07 58.41 1 28 44 3492.0 9.53 149.59

DIFFERENTIAL CORRECTIONS

TDE -.8286 TRA-1.9811 TC3 -.1847 BAU .1865
 RDE -.5702 RRA .1904 RC3 -.0614 FAU .01749
 FDE .6975 FRA 1.1994 FC3 -.2367 BSP 5194
 BOE 1.0059 BRA 1.9902 BC3 .1946 FSP -251

MID-COURSE EXECUTION ACCURACY

SGT 1657.3 SGR 444.7 SG3 96.2
 RRT .0674 RRF -.0680 RTF -.8574
 SGB 1715.9 R23 -.0037 R13 -.8574
 SGI 1657.5 SGT 443.6 THA 1.12

ORBIT DETERMINATION ACCURACY

ST 748.3 SR 410.8 SS 668.5
 CRT .7238 CRS .8186 CST .9882
 LSA 1052.2 MSA 261.0 SSA 16.2
 EL1 812.7 EL2 261.0 ALF 24.34

LAUNCH DATE DEC 12 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 241.921

RL 147.28 LAL -.00 LOL 80.04 VL 24.953 GAL 10.74 AZL 86.64 MCA 96.52 SMA 112.51 ECC .35627 INC 3.3627 V1 30.251
 RP 107.69 LAP 3.34 LOP 176.57 VP 35.849 GAP -20.73 AZP 90.38 TAL 159.20 TAP 255.72 RCA 72.42 APO 152.59 V2 35.189
 RC 46.274 GL 10.80 GP .56 ZAL 50.88 ZAP 7.38 ETS 185.34 ZAE 155.95 ETE 205.95 ZAC 98.12 ETC 166.57 CLP 7.36

PLANETOCENTRIC CONIC

C3 58.872 VHL 7.673 DLA 21.55 RAL 23.85 RAD 6569.1 VEL 13.425 PTH 2.45 VHP 12.968 OPA -.89 RAP 4.68 ECC 1.9689
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 15 3228.25 -25.70 112.72 273.46 77.67 5 19 4 2628.2 -27.14 104.35
 90.00 22 39 21 4381.32 5.86 182.13 261.96 62.25 23 52 22 3781.3 2.10 175.47
 100.00 6 1 31 2917.66 -27.80 80.38 273.95 78.54 6 50 9 2317.9 -29.10 81.82
 100.00 23 45 47 4166.94 7.75 165.35 260.93 61.04 24 55 14 3566.9 3.83 158.75
 110.00 7 41 2 2806.51 -33.03 67.85 275.07 80.67 8 24 29 2006.5 -33.97 58.73
 110.00 0 26 41 4051.05 12.33 153.81 258.18 57.86 1 34 12 3451.1 9.00 147.40

DIFFERENTIAL CORRECTIONS

TDE -.8349 TRA-1.9898 TC3 -.1795 BAU .1503
 RDE -.5397 RRA .1722 RC3 -.0853 FAU .01825
 FDE .7323 FRA 1.2425 FC3 -.2884 BSP 5427
 BOE .9942 BRA 1.9773 BC3 .1910 FSP -276

MID-COURSE EXECUTION ACCURACY

SGT 1722.1 SGR 437.7 SG3 104.5
 RRT .0799 RRF -.0778 RTF -.8664
 SGB 1776.9 R23 -.0039 R13 -.8664
 SGI 1722.5 SGT 436.2 THA 1.24

ORBIT DETERMINATION ACCURACY

ST 783.5 SR 405.2 SS 698.6
 CRT .7296 CRS .8231 CST .9884
 LSA 1095.2 MSA 257.5 SSA 16.2
 EL1 843.7 EL2 257.3 ALF 22.92

LAUNCH DATE DEC 12 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 248.664

RL 147.28 LAL -.00 LOL 80.04 VL 25.192 GAL 10.25 AZL 86.65 MCA 99.76 SMA 113.66 ECC .34111 INC 3.3503 V1 30.251
 RP 107.72 LAP 3.30 LOP 179.81 VP 36.006 GAP -19.73 AZP 90.57 TAL 158.81 TAP 258.57 RCA 74.89 APO 152.43 V2 35.179
 RC 45.244 GL 11.35 GP .60 ZAL 50.61 ZAP 5.98 ETS 186.82 ZAE 158.16 ETE 208.86 ZAC 99.88 ETC 166.57 CLP 5.96

PLANETOCENTRIC CONIC

C3 54.206 VHL 7.362 DLA 22.19 RAL 23.99 RAD 6569.0 VEL 13.250 PTH 2.42 VHP 12.399 OPA -.10 RAP 6.32 ECC 1.8921
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 17 34 3237.77 -25.56 113.38 272.23 77.37 5 11 31 2637.8 -27.04 105.03
 90.00 22 48 12 4331.22 4.26 179.31 261.15 61.98 24 0 24 3731.2 .48 172.67
 100.00 5 54 52 2924.01 -27.71 90.82 272.75 78.32 6 43 36 2324.0 -29.04 82.27
 100.00 23 53 35 4120.22 6.20 162.74 260.09 60.70 25 2 15 3520.2 2.25 156.18
 110.00 7 36 11 2607.04 -33.03 67.89 273.89 80.64 8 19 38 2007.0 -33.97 58.77
 110.00 0 32 41 4009.96 10.84 151.57 257.28 57.38 1 39 31 3410.0 6.46 145.22

DIFFERENTIAL CORRECTIONS

TDE -.8414 TRA-1.9563 TC3 -.1718 BAU .1342
 RDE -.5101 RRA .1546 RC3 -.0691 FAU .01909
 FDE .7702 FRA 1.2881 FC3 -.3050 BSP 5666
 BOE .9840 BRA 1.9624 BC3 .1852 FSP -303

MID-COURSE EXECUTION ACCURACY

SGT 1787.8 SGR 429.9 SG3 113.7
 RRT .0937 RRF -.0911 RTF -.8749
 SGB 1838.8 R23 -.0042 R13 -.8749
 SGI 1788.3 SGT 427.9 THA 1.37

ORBIT DETERMINATION ACCURACY

ST 819.9 SR 398.9 SS 730.5
 CRT .7361 CRS .8281 CST .9885
 LSA 1140.4 MSA 253.4 SSA 16.3
 EL1 876.0 EL2 252.7 ALF 21.59

LAUNCH DATE DEC 12 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 255.422

RL 147.28 LAL -.00 LOL 80.04 VL 25.414 GAL 9.78 AZL 86.66 MCA 102.99 SMA 114.77 ECC .32672 INC 3.3377 V1 30.251
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.152 GAP -18.76 AZP 90.75 TAL 158.46 TAP 261.45 RCA 77.27 APO 152.27 V2 35.169
 RC 44.357 GL 11.91 GP .64 ZAL 50.40 ZAP 4.58 ETS 189.20 ZAE 160.47 ETE 212.48 ZAC 101.62 ETC 166.56 CLP 4.53

PLANETOCENTRIC CONIC

C3 49.958 VHL 7.068 DLA 22.83 RAL 24.08 RAD 6568.8 VEL 13.089 PTH 2.39 VHP 11.849 OPA .68 RAP 7.95 ECC 1.8222
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 9 19 3248.21 -25.40 114.10 270.93 77.04 5 3 27 2648.2 -26.93 105.77
 90.00 22 57 10 4280.27 2.63 176.46 260.33 61.80 24 8 30 3680.3 -1.16 169.83
 100.00 5 47 48 2930.70 -27.62 91.29 271.48 78.09 6 36 38 2330.7 -28.98 82.75
 100.00 0 5 18 4073.02 4.62 160.13 259.23 60.43 1 13 11 3473.0 .65 153.59
 110.00 7 31 3 2607.68 -33.02 67.93 272.66 80.61 8 14 30 2007.7 -33.96 58.82
 110.00 0 38 33 3968.80 9.32 149.35 256.36 56.96 1 44 42 3368.8 4.90 143.05

DIFFERENTIAL CORRECTIONS

TDE -.8484 TRA-1.9406 TC3 -.1614 BAU .1183
 RDE -.4816 RRA .1377 RC3 -.0728 FAU .02003
 FDE .8117 FRA 1.3368 FC3 -.3470 BSP 5905
 BOE .9756 BRA 1.9455 BC3 .1771 FSP -333

MID-COURSE EXECUTION ACCURACY

SGT 1854.2 SGR 421.5 SG3 123.9
 RRT .1091 RRF -.1060 RTF -.8829
 SGB 1901.5 R23 -.0045 R13 -.8829
 SGI 1854.8 SGT 418.8 THA 1.50

ORBIT DETERMINATION ACCURACY

ST 857.4 SR 392.1 SS 764.5
 CRT .7433 CRS .8335 CST .9887
 LSA 1188.0 MSA 248.7 SSA 16.3
 EL1 909.9 EL2 247.2 ALF 20.34

LAUNCH DATE DEC 12 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 262.191

RL 147.28 LAL -0.00 LOL 80.04 VL 25.622 GAL 9.33 AZL 86.68 MCA 106.22 SMA 115.83 ECC .31309 INC 3.3247 V1 30.251
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.288 GAP -17.82 AZP 90.93 TAL 158.15 TAP 264.37 RCA 79.57 APO 152.10 V2 35.158
 RC 43.625 GL 12.47 GP .68 ZAL 50.24 ZAP 3.17 ETS 193.76 ZAE 162.80 ETE 217.12 ZAC 103.34 ETC 166.53 CLP 3.09

PLANETOCENTRIC CONIC

C3 46.094 VHL 6.789 CLA 23.45 RAL 24.12 RAD 6568.7 VEL 12.941 PTH 2.36 VHP 11.317 DPA 1.47 RAP 9.57 ECC 1.7586
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 0 30 3259.80 -25.22 114.90 269.57 76.68 4 54 49 2659.8 -26.80 106.60
 90.00 23 6 17 4228.41 .96 173.56 259.51 61.70 24 16 45 3628.4 -2.83 166.94
 100.00 5 40 17 2938.05 -27.51 91.81 270.15 77.83 6 29 15 2338.0 -28.91 83.29
 100.00 0 13 6 4025.39 3.01 157.50 258.36 60.25 1 20 12 3425.4 -.97 150.98
 110.00 7 25 37 2608.93 -33.01 68.00 271.36 80.58 8 9 5 2008.5 -33.96 58.89
 110.00 0 44 16 3927.68 7.78 147.16 255.42 56.61 1 49 44 3327.7 3.34 140.89

DIFFERENTIAL CORRECTIONS

TDE -.8561 TRA-1.9230 TC3 -.1479 BAU .1025
 RDE -.4541 RRA .1214 RC3 -.0762 FAU .02107
 FDE .8573 FRA 1.3887 FC3 -.3957 BSP 6144
 BOE .9691 BRA 1.9268 BC3 .1664 FSP -367

MID-COURSE EXECUTION ACCURACY

SGT 1921.3 SGR 412.3 SG3 135.1
 RRT .1264 RRF -.1226 RTF -.8904
 SGB 1965.1 R23 -.0048 R13 -.8905
 SG1 1922.1 SG2 408.9 THA 1.63

ORBIT DETERMINATION ACCURACY

ST 896.5 SR 384.7 SS 800.7
 CRT .7514 CRS .8392 CST .9890
 LSA 1238.3 MSA 243.3 SSA 16.3
 EL1 945.4 EL2 240.7 ALF 19.16

LAUNCH DATE DEC 12 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 268.967

RL 147.28 LAL -0.00 LOL 80.04 VL 25.816 GAL 8.90 AZL 86.69 MCA 109.45 SMA 116.85 ECC .30020 INC 3.3113 V1 30.251
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.414 GAP -16.92 AZP 91.10 TAL 157.89 TAP 267.34 RCA 81.77 APO 151.92 V2 35.147
 RC 43.055 GL 13.05 GP .74 ZAL 50.14 ZAP 1.79 ETS 205.62 ZAE 165.09 ETE 223.21 ZAC 105.04 ETC 166.47 CLP 1.63

PLANETOCENTRIC CONIC

C3 42.581 VHL 6.525 CLA 24.06 RAL 24.10 RAD 6568.6 VEL 12.804 PTH 2.33 VHP 10.802 DPA 2.25 RAP 11.16 ECC 1.7008
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 51 1 3272.78 -25.01 115.80 268.14 76.27 4 45 34 2672.8 -26.66 107.52
 90.00 23 15 36 4175.55 -.75 170.62 258.68 61.69 24 25 12 3575.5 -4.53 163.97
 100.00 5 32 19 2946.20 -27.40 92.39 268.76 77.55 6 21 25 2346.2 -28.84 83.88
 100.00 0 20 56 3977.36 1.39 154.86 257.49 60.14 1 27 13 3377.4 -2.60 148.34
 110.00 7 19 54 2609.63 -33.00 68.00 270.02 80.53 8 3 23 2009.6 -33.95 58.97
 110.00 0 49 50 3886.69 6.24 144.99 254.48 56.32 1 54 37 3286.7 1.77 138.75

DIFFERENTIAL CORRECTIONS

TDE -.8643 TRA-1.9037 TC3 -.1314 BAU .0873
 RDE -.4277 RRA .1057 RC3 -.0792 FAU .02222
 FDE .9076 FRA 1.4446 FC3 -.4518 BSP 6365
 BOE .9643 BRA 1.9066 BC3 .1534 FSP -403

MID-COURSE EXECUTION ACCURACY

SGT 1989.1 SGR 402.5 SG3 147.4
 RRT .1457 RRF -.1414 RTF -.8975
 SGB 2029.4 R23 -.0052 R13 -.8976
 SG1 1990.0 SG2 398.1 THA 1.76

ORBIT DETERMINATION ACCURACY

ST 936.8 SR 376.8 SS 839.5
 CRT .7600 CRS .8454 CST .9893
 LSA 1291.4 MSA 237.3 SSA 16.3
 EL1 982.3 EL2 233.5 ALF 18.05

LAUNCH DATE DEC 12 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 275.749

RL 147.28 LAL -0.00 LOL 80.04 VL 25.995 GAL 8.49 AZL 86.70 MCA 112.67 SMA 117.81 ECC .28803 INC 3.2974 V1 30.251
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.531 GAP -16.04 AZP 91.27 TAL 157.66 TAP 270.34 RCA 83.88 APO 151.75 V2 35.135
 RC 42.697 GL 13.63 GP .79 ZAL 50.10 ZAP .81 ETS 260.82 ZAE 167.25 ETE 231.40 ZAC 106.70 ETC 166.40 CLP .15

PLANETOCENTRIC CONIC

C3 39.389 VHL 6.276 CLA 24.66 RAL 24.03 RAD 6568.5 VEL 12.679 PTH 2.30 VHP 10.305 DPA 3.02 RAP 12.72 ECC 1.6482
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 51 3287.45 -24.77 116.81 266.66 75.82 4 35 38 2687.5 -26.48 108.55
 90.00 23 25 13 4121.53 -2.49 167.60 257.85 61.78 24 33 54 3521.5 -6.25 160.93
 100.00 5 23 52 2955.28 -27.26 93.03 267.33 77.24 6 13 8 2355.3 -28.75 84.54
 100.00 0 28 48 3928.94 -.25 152.21 256.60 60.11 1 34 17 3328.9 -4.23 145.68
 110.00 7 13 54 2611.03 -32.98 68.19 268.63 80.47 7 57 25 2011.0 -33.95 59.08
 110.00 0 55 16 3845.95 4.70 142.84 253.52 56.10 1 59 22 3246.0 .22 136.62

DIFFERENTIAL CORRECTIONS

TDE -.8677 TRA-1.7982 TC3 -.1080 BAU .0713
 RDE -.4023 RRA .0925 RC3 -.0817 FAU .02351
 FDE .9630 FRA 1.5049 FC3 -.5167 BSP 6639
 BOE .9564 BRA 1.8006 BC3 .1354 FSP -445

MID-COURSE EXECUTION ACCURACY

SGT 1977.1 SGR 392.5 SG3 161.2
 RRT .1766 RRF -.1584 RTF -.9055
 SGB 2015.7 R23 .0080 R13 -.9055
 SG1 1978.4 SG2 386.1 THA 2.09

ORBIT DETERMINATION ACCURACY

ST 959.8 SR 368.3 SS 880.9
 CRT .7803 CRS .8511 CST .9921
 LSA 1335.2 MSA 223.1 SSA 16.3
 EL1 1004.2 EL2 220.2 ALF 17.54

LAUNCH DATE DEC 12 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 282.531

RL 147.28 LAL -0.00 LOL 80.04 VL 26.163 GAL 8.10 AZL 86.72 MCA 115.90 SMA 118.73 ECC .27656 INC 3.2827 V1 30.251
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.638 GAP -15.20 AZP 91.44 TAL 157.48 TAP 273.38 RCA 85.90 APO 151.57 V2 35.123
 RC 42.436 GL 14.21 GP .86 ZAL 50.10 ZAP 1.61 ETS 329.38 ZAE 169.11 ETE 242.53 ZAC 108.33 ETC 166.30 CLP -1.36

PLANETOCENTRIC CONIC

C3 36.489 VHL 6.041 CLA 25.25 RAL 23.91 RAD 6568.4 VEL 12.564 PTH 2.28 VHP 9.824 DPA 3.78 RAP 14.25 ECC 1.6005
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 29 52 3304.20 -24.49 117.95 265.12 75.32 4 24 56 2704.2 -26.27 109.73
 90.00 23 35 13 4066.14 -4.27 164.50 257.02 61.98 24 42 59 3466.1 -7.99 157.79
 100.00 5 14 57 2965.42 -27.11 93.74 265.84 76.89 6 4 22 2365.4 -28.64 85.28
 100.00 0 36 45 3880.16 -1.91 149.53 255.71 60.16 1 41 25 3280.2 -5.86 142.98
 110.00 7 7 40 2612.76 -32.96 68.32 267.20 80.39 7 51 13 2012.8 -33.94 59.22
 110.00 1 0 32 3805.57 3.16 140.72 252.55 55.95 2 3 57 3205.6 -1.33 134.52

DIFFERENTIAL CORRECTIONS

TDE -.8783 TRA-1.8557 TC3 -.0840 BAU .0578
 RDE -.3782 RRA .0762 RC3 -.0836 FAU .02498
 FDE 1.0235 FRA 1.5690 FC3 -.5927 BSP 6913
 BOE .9562 BRA 1.8573 BC3 .1186 FSP -492

MID-COURSE EXECUTION ACCURACY

SGT 2119.3 SGR 381.1 SG3 176.3
 RRT .1902 RRF -.1858 RTF -.9108
 SGB 2153.3 R23 -.0071 R13 -.9109
 SG1 2120.6 SG2 374.0 THA 2.02

ORBIT DETERMINATION ACCURACY

ST 1017.3 SR 359.5 SS 924.5
 CRT .7788 CRS .8588 CST .9898
 LSA 1403.0 MSA 224.2 SSA 16.2
 EL1 1056.9 EL2 217.1 ALF 16.09

LAUNCH DATE DEC 12 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 289.312

RL 147.28 LAL -1.00 LOL 80.04 VL 26.318 GAL 7.73 AZL 86.73 MCA 119.12 SMA 119.61 ECC .26577 INC 3.2674 V1 30.251
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.738 GAP -14.38 AZP 91.59 TAL 157.34 TAP 276.46 RCA 87.82 APO 151.39 V2 35.111
 RC 42.394 GL 14.80 GP .94 ZAL 50.16 ZAP 3.06 ETS 343.90 ZAE 170.47 ETE 257.25 ZAC 109.93 ETC 166.18 CLP -2.91

PLANETOCENTRIC CONIC

C3 33.858 VHL 5.819 CLA 25.82 RAL 23.74 RAD 6568.3 VEL 12.459 PTH 2.25 VHP 9.359 CPA 4.54 RAP 15.75 ECC 1.5572
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 58 3323.53 -24.15 119.27 263.54 74.74 4 13 21 2723.5 -26.01 111.09
 90.00 23 45 46 4009.01 -6.09 161.29 256.21 62.29 24 52 35 3409.0 -9.75 154.52
 100.00 5 5 32 2976.75 -26.93 94.54 264.33 76.51 5 55 8 2376.8 -28.52 86.10
 100.00 0 44 49 3831.02 -3.57 146.83 254.83 60.30 1 48 40 3231.0 -7.50 140.24
 110.00 7 1 12 2614.84 -32.94 68.48 265.75 80.30 7 44 47 2014.8 -33.93 59.38
 110.00 1 5 38 3765.70 1.64 138.64 251.59 55.85 2 8 24 3165.7 -2.85 132.44

DIFFERENTIAL CORRECTIONS

TDE -.8874 TRA-1.8304 TC3 -.0560 BAU .0460
 RDE -.3553 RRA .0622 RC3 -.0848 FAU .02658
 FDE 1.0914 FRA 1.6397 FC3 -.6797 BSP 7145
 BDE -.9559 BRA 1.8315 BC3 .1017 FSP -543

MID-COURSE EXECUTION ACCURACY

SGT 2185.6 SGR 369.8 SG3 193.2
 RRT .2177 RRF -.2127 RTE -.9167
 SGB 2216.7 R23 -.0078 R13 -.9167
 SG1 2187.2 SG2 360.7 THA 2.17

ORBIT DETERMINATION ACCURACY

ST 1060.4 SR 350.4 SS 972.0
 CRT .7897 CRS .8662 CST .9903
 LSA 1464.5 MSA 217.0 SSA 16.1
 EL1 1097.3 EL2 207.8 ALF 15.18

LAUNCH DATE DEC 12 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 296.089

RL 147.28 LAL -1.00 LOL 80.04 VL 26.462 GAL 7.37 AZL 86.75 MCA 122.34 SMA 120.43 ECC .25564 INC 3.2509 V1 30.251
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.829 GAP -13.59 AZP 91.74 TAL 157.24 TAP 279.58 RCA 89.64 APO 151.22 V2 35.099
 RC 42.534 GL 15.38 GP 1.02 ZAL 50.26 ZAP 4.62 ETS 349.00 ZAE 171.11 ETE 274.95 ZAC 111.47 ETC 166.04 CLP -4.50

PLANETOCENTRIC CONIC

C3 31.471 VHL 5.610 CLA 26.37 RAL 23.52 RAD 6568.3 VEL 12.363 PTH 2.23 VHP 8.909 CPA 5.29 RAP 17.21 ECC 1.5179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 4 56 3346.18 -23.73 120.80 261.89 74.08 4 0 42 2746.2 -25.69 112.67
 90.00 0 1 1 3949.53 -7.96 157.92 255.43 62.74 1 6 50 3349.5 -11.55 151.08
 100.00 4 55 36 2989.41 -26.73 95.43 262.77 76.09 5 45 25 2389.4 -28.37 87.01
 100.00 0 53 2 3781.53 -5.23 144.10 253.95 60.53 1 56 3 3181.5 -9.12 137.47
 110.00 6 54 32 2617.24 -32.91 68.66 264.27 80.20 7 38 9 2017.2 -33.91 59.57
 110.00 1 10 35 3726.46 .14 136.59 250.61 55.82 2 12 41 3126.5 -4.35 130.38

DIFFERENTIAL CORRECTIONS

TDE -.8968 TRA-1.8034 TC3 -.0240 BAU .0372
 RDE -.3336 RRA .0487 RC3 -.0851 FAU .02837
 FDE 1.1673 FRA 1.7170 FC3 -.7805 BSP 7361
 BDE .9568 BRA 1.8040 BC3 .0884 FSP -599

MID-COURSE EXECUTION ACCURACY

SGT 2250.8 SGR 358.2 SG3 212.0
 RRT .2487 RRF -.2433 RTE -.9222
 SGB 2279.1 R23 -.0087 R13 -.9222
 SG1 2252.6 SG2 346.6 THA 2.32

ORBIT DETERMINATION ACCURACY

ST 1104.2 SR 341.1 SS 1023.2
 CRT .8012 CRS .8741 CST .9907
 LSA 1529.2 MSA 209.4 SSA 16.0
 EL1 1138.6 EL2 198.0 ALF 14.34

LAUNCH DATE DEC 12 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 302.860

RL 147.28 LAL -1.00 LOL 80.04 VL 26.596 GAL 7.04 AZL 86.77 MCA 125.56 SMA 121.21 ECC .24614 INC 3.2334 V1 30.251
 RP 108.01 LAP 2.63 LOP 205.64 VP 36.913 GAP -12.83 AZP 91.88 TAL 157.17 TAP 282.73 RCA 91.37 APO 151.04 V2 35.086
 RC 42.853 GL 15.36 GP 1.12 ZAL 50.41 ZAP 6.24 ETS 351.52 ZAE 170.91 ETE 292.97 ZAC 112.97 ETC 165.87 CLP -6.14

PLANETOCENTRIC CONIC

C3 29.307 VHL 5.414 CLA 26.90 RAL 23.26 RAD 6568.2 VEL 12.275 PTH 2.21 VHP 8.476 CPA 6.02 RAP 18.62 ECC 1.4823
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 50 25 3373.37 -23.21 122.62 260.19 73.31 3 46 38 2773.4 -25.28 114.56
 90.00 0 13 28 3886.59 -9.90 154.32 254.69 63.34 1 18 15 3286.6 -13.40 147.39
 100.00 4 45 8 3003.54 -26.49 96.41 261.19 75.62 5 35 11 2403.5 -28.21 88.03
 100.00 1 1 26 3731.65 -6.90 141.33 253.08 60.84 2 3 37 3131.6 -10.73 134.64
 110.00 6 47 43 2619.93 -32.88 68.86 262.78 80.08 7 31 23 2019.9 -33.90 59.77
 110.00 1 15 19 3688.03 -1.33 134.59 249.64 55.84 2 16 48 3088.0 -5.80 128.36

DIFFERENTIAL CORRECTIONS

TDE -.9051 TRA-1.7742 TC3 .0123 BAU .0334
 RDE -.3131 RRA .0357 RC3 -.0843 FAU .03038
 FDE 1.2511 FRA 1.8017 FC3 -.8973 BSP 7579
 BDE .9577 BRA 1.7746 BC3 .0852 FSP -663

MID-COURSE EXECUTION ACCURACY

SGT 2313.4 SGR 346.3 SG3 233.0
 RRT .2834 RRF -.2779 RTE -.9273
 SGB 2339.1 R23 -.0100 R13 -.9274
 SG1 2315.5 SG2 331.8 THA 2.48

ORBIT DETERMINATION ACCURACY

ST 1147.5 SR 331.6 SS 1077.7
 CRT .8131 CRS .8822 CST .9911
 LSA 1596.0 MSA 201.8 SSA 15.9
 EL1 1179.6 EL2 187.8 ALF 13.57

LAUNCH DATE DEC 12 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 309.623

RL 147.28 LAL -1.00 LOL 80.04 VL 26.719 GAL 6.73 AZL 86.79 MCA 128.77 SMA 121.94 ECC .23726 INC 3.2143 V1 30.251
 RP 108.05 LAP 2.51 LOP 208.85 VP 36.990 GAP -12.09 AZP 92.01 TAL 157.14 TAP 285.91 RCA 93.01 APO 150.88 V2 35.073
 RC 43.347 GL 16.53 GP 1.24 ZAL 50.60 ZAP 7.92 ETS 352.98 ZAE 170.02 ETE 308.41 ZAC 114.41 ETC 165.68 CLP -7.82

PLANETOCENTRIC CONIC

C3 27.346 VHL 5.229 CLA 27.41 RAL 22.96 RAD 6568.1 VEL 12.195 PTH 2.19 VHP 8.058 CPA 6.75 RAP 19.98 ECC 1.4500
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 33 42 3407.49 -22.53 124.89 258.41 72.38 3 30 30 2807.5 -24.73 116.91
 90.00 0 27 48 3817.90 -11.97 150.33 254.01 64.15 1 31 26 3217.9 -15.35 143.29
 100.00 4 34 7 3019.29 -26.22 97.50 259.59 75.10 5 24 27 2419.3 -28.01 89.16
 100.00 1 10 4 3681.34 -8.55 138.52 252.22 61.25 2 11 25 3081.3 -12.33 131.76
 110.00 6 40 49 2622.81 -32.85 69.08 261.28 79.96 7 24 32 2022.8 -33.88 60.00
 110.00 1 19 52 3650.58 -2.76 132.64 248.66 55.91 2 20 42 3050.6 -7.21 126.38

DIFFERENTIAL CORRECTIONS

TDE -.9135 TRA-1.7433 TC3 .0526 BAU .0357
 RDE -.2939 RRA .0230 RC3 -.0823 FAU .03262
 FDE 1.3450 FRA 1.8948 FC3 -1.0327 BSP 7784
 BDE .9596 BRA 1.7435 BC3 .0976 FSP -734

MID-COURSE EXECUTION ACCURACY

SGT 2373.6 SGR 334.5 SG3 256.4
 RRT .3231 RRF -.3176 RTE -.9321
 SGB 2397.1 R23 -.0116 R13 -.9322
 SG1 2376.2 SG2 316.3 THA 2.65

ORBIT DETERMINATION ACCURACY

ST 1191.0 SR 322.1 SS 1136.4
 CRT .8257 CRS .8909 CST .9916
 LSA 1666.1 MSA 194.0 SSA 15.6
 EL1 1221.0 EL2 177.2 ALF 12.87

LAUNCH DATE DEC 12 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -.00 LOL 80.04 VL 26.833 GAL 6.43 AZL 86.81 MCA 131.99 SMA 122.63 ECC .22898 INC 3.1935 V1 30.251
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.060 GAP -11.38 AZP 92.14 TAL 157.15 TAP 289.13 RCA 94.55 APO 150.71 V2 35.060
 RC 44.011 GL 17.08 GP 1.37 ZAL 50.82 ZAP 9.67 ETS 353.90 ZAE 168.70 ETE 320.29 ZAC 115.77 ETC 165.47 CLP -9.57

DISTANCE 316.375

PLANETOCENTRIC CONIC

C3 25.570 VHL 5.057 CLA 27.88 RAL 22.63 RAD 6568.0 VEL 12.122 PTH 2.17 VHP 7.654 DPA 7.47 RAP 21.27 ECC 1.4208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 12 52 3454.89 -21.52 127.99 256.49 71.14 3 10 27 2854.9 -23.90 120.13
 90.00 0 46 0 3737.21 -14.32 145.57 253.47 65.31 1 48 18 3137.2 -17.53 138.37
 100.00 4 22 33 3036.82 -25.91 98.71 257.97 74.54 5 13 10 2436.8 -27.78 90.41
 100.00 1 19 0 3630.52 -10.21 135.65 251.38 61.75 2 19 31 3030.5 -13.90 128.81
 110.00 6 33 54 2625.75 -32.81 69.30 259.77 79.83 7 17 39 2025.8 -33.87 60.23
 110.00 1 24 9 3614.34 -4.14 130.74 247.69 56.04 2 24 24 3014.3 -8.57 124.45

DIFFERENTIAL CORRECTIONS

TDE -.9214 TRA-1.7110 TC3 .0961 BAU .0425
 RDE -.2761 RRA .0106 RC3 -.0787 FAU .03513
 FDE 1.4501 FRA 1.9980 FC3-1.1894 BSP 7973
 BDE .9619 BRA 1.7111 BC3 .1242 FSP -813

MID-COURSE EXECUTION ACCURACY

SGT 2431.2 SGR 323.1 SG3 282.7
 RRT .3682 RRF -.3629 RTF -.9366
 SGB 2452.5 R23 -.0137 R13 -.9367
 SG1 2434.1 SG2 300.0 THA 2.84

ORBIT DETERMINATION ACCURACY

ST 1234.1 SR 312.8 SS 1199.8
 CRT .8390 CRS .8999 CST .9921
 LSA 1739.4 MSA 186.2 SSA 15.4
 EL1 1262.2 EL2 166.5 ALF 12.22

LAUNCH DATE DEC 12 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -.00 LOL 80.04 VL 26.938 GAL 6.15 AZL 86.83 MCA 135.20 SMA 123.28 ECC .22126 INC 3.1704 V1 30.251
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.124 GAP -10.69 AZP 92.25 TAL 157.19 TAP 292.38 RCA 96.00 APO 150.55 V2 35.047
 RC 44.838 GL 17.61 GP 1.53 ZAL 51.07 ZAP 11.48 ETS 354.49 ZAE 167.19 ETE 329.12 ZAC 117.07 ETC 165.22 CLP -11.38

DISTANCE 323.114

PLANETOCENTRIC CONIC

C3 23.961 VHL 4.895 CLA 28.33 RAL 22.28 RAD 6568.0 VEL 12.056 PTH 2.15 VHP 7.265 DPA 8.17 RAP 22.50 ECC 1.3943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 89.14 1 20 53 3603.14 -18.57 137.67 253.76 68.21 2 20 56 3003.1 -21.36 130.11
 90.86 1 35 7 3557.00 -18.55 134.29 253.75 68.20 2 34 24 2957.0 -21.35 126.73
 100.00 4 10 23 3056.31 -25.55 100.05 256.34 73.93 5 1 19 2456.3 -27.50 91.79
 100.00 1 28 19 3579.06 -11.85 132.71 250.56 62.35 2 27 58 2979.1 -15.46 125.78
 110.00 6 27 2 2628.57 -32.78 69.52 258.28 79.71 7 10 51 2028.6 -33.85 60.44
 110.00 1 28 9 3579.56 -5.46 128.91 246.72 56.20 2 27 49 2979.6 -9.86 122.59

DIFFERENTIAL CORRECTIONS

TDE -.9252 TRA-1.6742 TC3 .1480 BAU .0529
 RDE -.2595 RRA -.0016 RC3 -.0731 FAU .03803
 FDE 1.5654 FRA 2.1108 FC3-1.3742 BSP 8218
 BDE .9609 BRA 1.6742 BC3 .1651 FSP -906

MID-COURSE EXECUTION ACCURACY

SGT 2479.9 SGR 312.1 SG3 312.1
 RRT .4179 RRF -.4138 RTF -.9409
 SGB 2499.5 R23 -.0169 R13 -.9410
 SG1 2483.4 SG2 283.1 THA 3.05

ORBIT DETERMINATION ACCURACY

ST 1272.3 SR 303.8 SS 1266.1
 CRT .8522 CRS .9092 CST .9924
 LSA 1811.6 MSA 178.7 SSA 15.0
 EL1 1298.8 EL2 155.7 ALF 11.67

LAUNCH DATE DEC 12 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -.00 LOL 80.04 VL 27.035 GAL 5.89 AZL 86.86 MCA 138.40 SMA 123.88 ECC .21409 INC 3.1447 V1 30.251
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.181 GAP -10.02 AZP 92.35 TAL 157.25 TAP 295.66 RCA 97.36 APO 150.40 V2 35.033
 RC 45.818 GL 18.12 GP 1.72 ZAL 51.34 ZAP 13.38 ETS 354.86 ZAE 165.66 ETE 335.77 ZAC 118.27 ETC 164.95 CLP -13.27

DISTANCE 329.840

PLANETOCENTRIC CONIC

C3 22.505 VHL 4.744 CLA 28.74 RAL 21.90 RAD 6567.9 VEL 11.995 PTH 2.14 VHP 6.891 DPA 8.87 RAP 23.64 ECC 1.3704
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.90 0 44 4 3702.14 -19.21 145.20 252.47 68.21 1 45 46 3102.1 -22.00 137.60
 95.10 2 8 56 3427.41 -19.19 125.06 252.46 68.20 3 6 3 2827.4 -21.99 117.47
 100.00 3 57 36 3077.99 -25.13 101.52 254.70 73.26 4 48 54 2478.0 -27.18 93.32
 100.00 1 38 5 3526.79 -13.48 129.69 249.77 63.07 2 36 52 2926.8 -16.99 122.65
 110.00 6 20 22 2631.02 -32.75 69.70 256.80 79.60 7 4 13 2031.0 -33.84 60.63
 110.00 1 31 48 3546.54 -6.71 127.17 245.76 56.40 2 30 55 2946.5 -11.08 120.80

DIFFERENTIAL CORRECTIONS

TDE -.9303 TRA-1.6383 TC3 .1981 BAU .0628
 RDE -.2445 RRA -.0140 RC3 -.0657 FAU .04121
 FDE 1.6964 FRA 2.2384 FC3-1.5852 BSP 8379
 BDE .9619 BRA 1.6384 BC3 .2087 FSP -1007

MID-COURSE EXECUTION ACCURACY

SGT 2527.8 SGR 302.4 SG3 345.2
 RRT .4756 RRF -.4724 RTF -.9447
 SGB 2545.8 R23 -.0204 R13 -.9449
 SG1 2531.9 SG2 265.6 THA 3.29

ORBIT DETERMINATION ACCURACY

ST 1311.8 SR 295.4 SS 1338.7
 CRT .8664 CRS .9190 CST .9929
 LSA 1889.6 MSA 171.2 SSA 14.6
 EL1 1336.8 EL2 144.7 ALF 11.17

LAUNCH DATE DEC 12 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -.00 LOL 80.04 VL 27.124 GAL 5.64 AZL 86.88 MCA 141.61 SMA 124.44 ECC .20746 INC 3.1155 V1 30.251
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.234 GAP -9.37 AZP 92.44 TAL 157.35 TAP 298.96 RCA 98.62 APO 150.25 V2 35.020
 RC 46.944 GL 18.59 GP 1.95 ZAL 51.64 ZAP 15.37 ETS 355.07 ZAE 164.22 ETE 340.96 ZAC 119.37 ETC 164.64 CLP -15.25

DISTANCE 336.550

PLANETOCENTRIC CONIC

C3 21.187 VHL 4.603 CLA 29.10 RAL 21.51 RAD 6567.9 VEL 11.940 PTH 2.12 VHP 6.531 DPA 9.57 RAP 24.69 ECC 1.3487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.01 0 27 13 3736.86 -19.81 148.01 251.20 68.24 1 29 30 3136.9 -22.59 140.38
 96.99 2 22 40 3363.52 -19.79 120.62 251.19 68.23 3 18 43 2763.5 -22.58 112.99
 100.00 3 44 7 3102.17 -24.64 103.16 253.06 72.53 4 35 49 2502.2 -26.80 95.02
 100.00 1 48 26 3473.44 -15.10 126.56 249.01 63.89 2 46 20 2873.4 -18.49 119.40
 110.00 6 14 2 2632.72 -32.73 69.83 255.35 79.53 6 57 54 2032.7 -33.82 60.76
 110.00 1 35 1 3515.66 -7.87 125.53 244.80 56.63 2 33 37 2915.7 -12.20 119.12

DIFFERENTIAL CORRECTIONS

TDE -.9331 TRA-1.6005 TC3 .2502 BAU .0726
 RDE -.2311 RRA -.0266 RC3 -.0558 FAU .04479
 FDE 1.8424 FRA 2.3810 FC3-1.8301 BSP 8511
 BDE .9613 BRA 1.6007 BC3 .2564 FSP -1120

MID-COURSE EXECUTION ACCURACY

SGT 2569.1 SGR 294.7 SG3 382.5
 RRT .5400 RRF -.5381 RTF -.9482
 SGB 2586.0 R23 -.0252 R13 -.9483
 SG1 2574.1 SG2 247.6 THA 3.58

ORBIT DETERMINATION ACCURACY

ST 1347.9 SR 288.0 SS 1416.1
 CRT .8810 CRS .9291 CST .9933
 LSA 1969.3 MSA 163.9 SSA 14.0
 EL1 1371.8 EL2 133.9 ALF 10.76

LAUNCH DATE DEC 12 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC
 RL 147.28 LAL -0.00 LOL 80.04 VL 27.206 GAL 5.41 AZL 86.92 MCA 144.81 SMA 124.96 ECC .20132 INC 3.0818 V1 30.251
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.281 GAP -8.74 AZP 92.52 TAL 157.46 TAP 302.28 RCA 99.80 APO 150.11 V2 35.007
 RC 48.205 GL 19.01 GP 2.23 ZAL 51.94 ZAP 17.47 ETS 355.13 ZAE 162.93 ETE 345.17 ZAC 120.36 ETC 164.31 CLP -17.33

PLANETOCENTRIC CONIC
 C3 19.992 VHL 4.471 CLA 29.41 RAL 21.11 RAD 6567.8 VEL 11.890 PTH 2.11 VHP 6.186 DPA 10.27 RAP 25.63 ECC 1.3290
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.71 0 15 21 3756.01 -20.36 149.65 249.95 68.31 1 17 57 3156.0 -23.13 141.99
 98.29 2 31 22 3316.59 -20.35 117.39 249.95 68.30 3 26 39 2716.6 -23.11 109.72
 100.00 3 29 52 3129.28 -24.08 104.97 251.41 71.73 4 22 1 2529.3 -26.35 96.91
 100.00 1 59 33 3418.56 -16.72 123.28 248.29 64.85 2 56 31 2818.6 -19.97 116.00
 110.00 6 8 13 2633.19 -32.72 69.87 253.93 79.51 6 52 6 2033.2 -33.82 60.80
 110.00 1 37 41 3487.41 -8.92 124.02 243.84 56.86 2 35 49 2887.4 -13.22 117.56

DIFFERENTIAL CORRECTIONS
 TDE -.9304 TRA-1.5582 TC3 .3085 BAU .0832 SGT 2598.4 SGR 289.7 SG3 424.4 ST 1376.4 SR 281.7 SS 1497.0
 RDE -.2194 RRA -.0398 RC3 -.0427 FAU .04891 RRT .6095 RRF -.6099 RTF -.9515 CRT .8956 CRS .9393 CST .9937
 FDE 2.0029 FRA 2.5391 FC3-2.1182 BSP 8688 SGB 2614.5 R23 -.0321 R13 -.9517 LSA 2047.0 MSA 157.0 SSA 13.4
 BDE .9560 BRA 1.5587 BC3 .3115 FSP -1252 SGI 2604.4 SG2 229.2 TMA 3.92 EL1 1399.5 EL2 123.2 ALF 10.47

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 12 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC
 RL 147.28 LAL -0.00 LOL 80.04 VL 27.280 GAL 5.20 AZL 86.96 MCA 148.01 SMA 125.44 ECC .19568 INC 3.0424 V1 30.251
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.323 GAP -8.13 AZP 92.58 TAL 157.60 TAP 305.61 RCA 100.89 APO 149.98 V2 34.994
 RC 49.590 GL 19.37 GP 2.57 ZAL 52.24 ZAP 19.68 ETS 355.08 ZAE 161.85 ETE 348.78 ZAC 121.21 ETC 163.93 CLP -19.52

PLANETOCENTRIC CONIC
 C3 18.907 VHL 4.348 CLA 29.66 RAL 20.73 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 5.854 DPA 10.98 RAP 26.44 ECC 1.3112
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.79 0 6 39 3765.74 -20.86 150.58 248.74 68.43 1 9 25 3165.7 -23.60 142.88
 99.21 2 36 59 3280.45 -20.85 114.92 248.74 68.41 3 31 40 2680.5 -23.59 107.22
 100.00 3 14 59 3160.06 -23.41 107.01 249.77 70.86 4 7 19 2560.1 -25.80 99.03
 100.00 2 11 41 3361.36 -18.34 119.81 247.62 65.97 3 7 43 2761.4 -21.43 112.38
 110.00 6 3 10 2631.79 -32.74 69.76 252.55 79.57 6 47 2 2031.8 -33.83 60.69
 110.00 1 39 39 3462.39 -9.85 122.68 242.88 57.10 2 37 22 2862.4 -14.12 116.18

DIFFERENTIAL CORRECTIONS
 TDE -.9240 TRA-1.5136 TC3 .3680 BAU .0932 SGT 2617.6 SGR 289.1 SG3 471.5 ST 1398.7 SR 277.5 SS 1582.6
 RDE -.2097 RRA -.0539 RC3 -.0258 FAU .05359 RRT .6830 RRF -.6864 RTF -.9546 CRT .9105 CRS .9497 CST .9940
 FDE 2.1808 FRA 2.7168 FC3-2.4539 BSP 8839 SGB 2633.5 R23 -.0413 R13 -.9548 LSA 2124.9 MSA 150.5 SSA 12.6
 BDE .9475 BRA 1.5145 BC3 .3689 FSP -1403 SGI 2625.1 SG2 210.5 TMA 4.34 EL1 1421.5 EL2 112.9 ALF 10.30

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 12 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC
 RL 147.28 LAL -0.00 LOL 80.04 VL 27.348 GAL 5.00 AZL 87.00 MCA 151.21 SMA 125.88 ECC .19050 INC 2.9954 V1 30.251
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.360 GAP -7.54 AZP 92.63 TAL 157.75 TAP 308.96 RCA 101.90 APO 149.86 V2 34.980
 RC 51.091 GL 19.65 GP 2.99 ZAL 52.53 ZAP 22.03 ETS 354.89 ZAE 161.01 ETE 352.06 ZAC 121.91 ETC 163.50 CLP -21.83

PLANETOCENTRIC CONIC
 C3 17.920 VHL 4.233 CLA 29.83 RAL 20.36 RAD 6567.7 VEL 11.803 PTH 2.09 VHP 5.538 DPA 11.72 RAP 27.09 ECC 1.2949
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.20 0 0 39 3767.76 -21.29 150.92 247.58 68.59 1 3 27 3167.8 -24.01 143.18
 99.80 2 40 6 3253.32 -21.28 113.09 247.57 68.58 3 34 19 2653.3 -24.00 105.35
 100.00 2 57 47 3196.81 -22.57 109.42 248.10 69.86 3 51 4 2596.8 -25.10 101.54
 100.00 2 25 38 3299.49 -20.01 115.97 247.02 67.32 3 20 38 2699.5 -22.91 108.38
 110.00 5 59 13 2627.64 -32.79 69.45 251.23 79.75 6 43 0 2027.6 -33.86 60.37
 110.00 1 40 42 3441.43 -10.62 121.55 241.93 57.32 2 38 4 2841.4 -14.86 115.00

DIFFERENTIAL CORRECTIONS
 TDE -.9126 TRA-1.4667 TC3 .4259 BAU .1020 SGT 2625.3 SGR 294.9 SG3 524.5 ST 1413.2 SR 276.0 SS 1672.0
 RDE -.2025 RRA -.0697 RC3 -.0044 FAU .05887 RRT .7570 RRF -.7638 RTF -.9572 CRT .9253 CRS .9600 CST .9943
 FDE 2.3760 FRA 2.9172 FC3-2.8442 BSP 8952 SGB 2641.8 R23 -.0541 R13 -.9576 LSA 2201.8 MSA 144.3 SSA 11.8
 BDE .9348 BRA 1.4683 BC3 .4259 FSP -1573 SGI 2634.9 SG2 192.0 TMA 4.89 EL1 1436.2 EL2 103.0 ALF 10.30

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 12 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC
 RL 147.28 LAL -0.00 LOL 80.04 VL 27.410 GAL 4.82 AZL 87.06 MCA 154.40 SMA 126.29 ECC .18576 INC 2.9376 V1 30.251
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.393 GAP -6.96 AZP 92.65 TAL 157.91 TAP 312.31 RCA 102.83 APO 149.74 V2 34.967
 RC 52.697 GL 19.84 GP 3.54 ZAL 52.80 ZAP 24.53 ETS 354.56 ZAE 160.42 ETE 355.26 ZAC 122.43 ETC 163.02 CLP -24.29

PLANETOCENTRIC CONIC
 C3 17.017 VHL 4.125 CLA 29.91 RAL 20.04 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 5.236 DPA 12.51 RAP 27.57 ECC 1.2801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.94 23 53 28 3762.02 -21.64 150.64 246.46 68.83 24 56 10 3162.0 -24.32 142.87
 100.06 2 40 45 3235.10 -21.62 111.88 246.45 68.82 3 34 40 2635.1 -24.31 104.11
 79.94 23 53 28 3762.02 -21.64 150.64 246.46 68.83 24 56 10 3162.0 -24.32 142.87
 100.06 2 40 45 3235.10 -21.62 111.88 246.45 68.82 3 34 40 2635.1 -24.31 104.11
 110.00 5 56 46 2619.51 -32.89 68.83 249.97 80.10 6 40 26 2019.5 -33.90 59.74
 110.00 1 40 34 3425.61 -11.20 120.69 240.97 57.49 2 37 39 2825.6 -15.41 114.11

DIFFERENTIAL CORRECTIONS
 TDE -.8878 TRA-1.4093 TC3 .4997 BAU .1138 SGT 2605.7 SGR 309.2 SG3 583.1 ST 1406.9 SR 277.9 SS 1758.0
 RDE -.1978 RRA -.0876 RC3 .0245 FAU .06529 RRT .8242 RRF -.8358 RTF -.9601 CRT .9392 CRS .9697 CST .9945
 FDE 2.5787 FRA 3.1333 FC3-3.3214 BSP 9216 SGB 2624.0 R23 -.0724 R13 -.9606 LSA 2264.5 MSA 138.9 SSA 10.7
 BDE .9095 BRA 1.4120 BC3 .5003 FSP -1787 SGI 2618.2 SG2 174.3 TMA 5.61 EL1 1431.1 EL2 93.8 ALF 10.56

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 12 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 369.829

RL 147.28 LAL -.00 LOL 80.04 VL 27.467 GAL 4.66 AZL 87.14 MCA 157.60 SMA 126.66 ECC .18143 INC 2.8647 V1 30.251
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.423 GAP -6.40 AZP 92.65 TAL 158.08 TAP 315.68 RCA 103.68 APO 149.64 V2 34.954
 RC 54.398 GL 19.88 GP 4.25 ZAL 53.04 ZAP 27.22 ETS 354.06 ZAE 160.11 ETC 358.64 ZAC 122.73 ETC 162.45 CLP -26.91

PLANETOCENTRIC CONIC

C3 16.181 VHL 4.023 CLA 29.86 RAL 19.77 RAD 6567.6 VEL 11.729 PTH 2.07 VHP 4.948 DPA 13.39 RAP 27.82 ECC 1.2663
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.10 23 53 33 3746.75 -21.89 149.60 245.38 69.16 24 56 0 3146.7 -24.52 141.80
 99.90 2 38 31 3227.27 -21.88 111.40 245.38 69.15 3 32 18 2627.3 -24.51 103.60
 100.00 2 50 42 3188.34 -22.76 108.87 245.74 70.08 3 43 51 2588.3 -25.27 100.96
 100.00 2 27 59 3260.90 -21.00 113.54 245.01 68.23 3 22 20 2660.9 -23.77 105.84
 110.00 5 56 23 2605.61 -33.04 67.78 248.76 80.71 6 39 49 2005.6 -33.97 58.66
 110.00 1 38 47 3416.40 -11.54 120.19 239.98 57.60 2 35 43 2816.4 -15.73 113.59

DIFFERENTIAL CORRECTIONS

TDE -.7984 TRA-1.2918 TC3 .7129 BAU .1550
 RDE -.1925 RRA -.1047 RC3 .0734 FAU .07658
 FDE 2.6998 FRA 3.2819 FC3-4.0971 BSP 10813
 BDE .8213 BRA 1.2961 BC3 .7167 FSP -2210

MID-COURSE EXECUTION ACCURACY

SGT 2474.7 SGR 329.0 SG3 639.1
 RRT .8728 RRF -.8943 RTF -.9670
 SGB 2496.4 R23 -.0957 R13 -.9678
 SGI 2491.3 SG2 159.5 THA 6.65

ORBIT DETERMINATION ACCURACY

ST 1303.4 SR 279.0 SS 1784.1
 CRT .9479 CRS .9775 CST .9937
 LSA 2222.8 MSA 136.8 SSA 8.7
 EL1 1330.1 EL2 87.1 ALF 11.52

LAUNCH DATE DEC 12 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 376.436

RL 147.28 LAL -.00 LOL 80.04 VL 27.517 GAL 4.51 AZL 87.23 MCA 160.79 SMA 127.00 ECC .17755 INC 2.7690 V1 30.251
 RP 108.45 LAP .91 LOP 240.85 VP 37.448 GAP -5.86 AZP 92.62 TAL 158.24 TAP 319.03 RCA 104.45 APO 149.54 V2 34.942
 RC 56.186 GL 19.73 GP 5.22 ZAL 53.19 ZAP 30.11 ETS 353.33 ZAE 160.04 ETE 2.58 ZAC 122.77 ETC 161.76 CLP -29.70

PLANETOCENTRIC CONIC

C3 15.409 VHL 3.925 CLA 29.64 RAL 19.62 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 4.680 DPA 14.44 RAP 27.81 ECC 1.2536
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.86 0 2 45 3717.01 -21.99 147.44 244.42 69.62 1 4 42 3117.0 -24.57 139.61
 99.14 2 32 6 3234.87 -21.98 112.01 244.41 69.60 3 26 0 2634.9 -24.56 104.18
 100.00 3 11 25 3109.11 -24.50 103.62 245.36 72.32 4 3 15 2509.1 -26.69 95.51
 100.00 2 6 6 3318.01 -19.52 117.13 243.36 66.90 3 1 24 2718.0 -22.48 109.58
 110.00 5 59 1 2583.78 -33.27 66.11 247.67 81.67 6 42 5 1983.8 -34.07 56.96
 110.00 1 34 59 3416.10 -11.55 120.17 239.01 57.60 2 31 56 2816.1 -15.74 113.58

DIFFERENTIAL CORRECTIONS

TDE -.8623 TRA-1.3339 TC3 .5077 BAU .1067
 RDE -.2062 RRA -.1425 RC3 .1023 FAU .07692
 FDE 3.1002 FRA 3.7438 FC3-4.3217 BSP 8414
 BDE .8867 BRA 1.3415 BC3 .5179 FSP -2134

MID-COURSE EXECUTION ACCURACY

SGT 2600.1 SGR 392.8 SG3 730.7
 RRT .9271 RRF -.9449 RTF -.9610
 SGB 2629.6 R23 -.1366 R13 -.9621
 SGI 2625.6 SG2 145.8 THA 8.00

ORBIT DETERMINATION ACCURACY

ST 1426.9 SR 309.4 SS 1982.5
 CRT .9674 CRS .9870 CST .9954
 LSA 2458.9 MSA 125.8 SSA 9.0
 EL1 1458.0 EL2 76.7 ALF 11.88

LAUNCH DATE DEC 12 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 383.014

RL 147.28 LAL -.00 LOL 80.04 VL 27.563 GAL 4.37 AZL 87.36 MCA 163.98 SMA 127.30 ECC .17403 INC 2.6369 V1 30.251
 RP 108.49 LAP .73 LOP 244.03 VP 37.470 GAP -5.33 AZP 92.53 TAL 158.40 TAP 322.38 RCA 105.15 APO 149.46 V2 34.929
 RC 58.051 GL 19.28 GP 6.59 ZAL 53.27 ZAP 33.27 ETS 352.26 ZAE 160.19 ETE 7.64 ZAC 122.46 ETC 160.89 CLP -32.69

PLANETOCENTRIC CONIC

C3 14.663 VHL 3.829 CLA 29.15 RAL 19.61 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 4.428 DPA 15.78 RAP 27.45 ECC 1.2413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.79 0 17 53 3657.21 -21.90 142.98 243.50 70.27 1 18 50 3057.2 -24.39 135.13
 97.21 2 16 53 3272.44 -21.89 114.75 243.50 70.26 3 11 26 2672.4 -24.38 106.90
 100.00 3 34 45 3022.72 -26.16 97.74 244.96 74.99 4 25 8 2422.7 -27.96 89.40
 100.00 1 42 43 3382.16 -17.76 121.08 241.71 65.55 2 39 5 2782.2 -20.91 113.70
 110.00 6 5 49 2549.61 -33.58 63.49 246.61 83.19 6 48 18 1949.6 -34.16 54.30
 110.00 1 28 8 3428.04 -11.12 120.82 237.99 57.46 2 25 16 2828.0 -15.33 114.25

DIFFERENTIAL CORRECTIONS

TDE -.8151 TRA-1.2723 TC3 .5429 BAU .1115
 RDE -.2204 RRA -.1837 RC3 .1704 FAU .08502
 FDE 3.3309 FRA 4.0812 FC3-5.0195 BSP 8375
 BDE .8444 BRA 1.2855 BC3 .5690 FSP -2395

MID-COURSE EXECUTION ACCURACY

SGT 2532.2 SGR 474.2 SG3 812.8
 RRT .9515 RRF -.9742 RTF -.9621
 SGB 2576.2 R23 -.1814 R13 -.9639
 SGI 2572.2 SG2 143.6 THA 10.14

ORBIT DETERMINATION ACCURACY

ST 1384.0 SR 343.1 SS 2069.4
 CRT .9773 CRS .9928 CST .9955
 LSA 2510.2 MSA 119.6 SSA 7.8
 EL1 1424.1 EL2 70.6 ALF 13.65

LAUNCH DATE DEC 12 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 389.569

RL 147.28 LAL -.00 LOL 80.04 VL 27.604 GAL 4.25 AZL 87.56 MCA 167.16 SMA 127.58 ECC .17088 INC 2.4417 V1 30.251
 RP 108.53 LAP .54 LOP 247.21 VP 37.489 GAP -4.82 AZP 92.38 TAL 158.55 TAP 325.72 RCA 105.78 APO 149.38 V2 34.917
 RC 59.985 GL 18.32 GP 8.66 ZAL 53.19 ZAP 36.78 ETS 350.66 ZAE 160.38 ETE 14.83 ZAC 121.67 ETC 159.70 CLP -35.89

PLANETOCENTRIC CONIC

C3 13.916 VHL 3.730 CLA 28.20 RAL 19.86 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 4.201 DPA 17.67 RAP 26.58 ECC 1.2290
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 41 13 3379.13 -23.10 123.00 243.25 73.15 2 37 32 2779.1 -25.19 114.96
 90.00 0 55 31 3527.40 -19.85 132.66 242.07 69.38 1 54 18 2927.4 -22.48 124.97
 100.00 4 4 4 2918.55 -27.79 90.43 244.56 78.51 4 52 43 2318.6 -29.09 81.87
 100.00 1 15 21 3463.21 -15.41 125.95 240.07 64.06 2 13 4 2863.2 -18.77 118.77
 110.00 6 19 1 2496.15 -33.93 59.36 245.56 85.61 7 0 38 1896.1 -34.17 50.12
 110.00 1 16 53 3458.38 -10.00 122.46 236.94 57.14 2 14 32 2858.4 -14.26 115.95

DIFFERENTIAL CORRECTIONS

TDE -.7519 TRA-1.2056 TC3 .5680 BAU .1174
 RDE -.2473 RRA -.2457 RC3 .2743 FAU .09385
 FDE 3.5115 FRA 4.4566 FC3-5.8388 BSP 8317
 BDE .7915 BRA 1.2304 BC3 .6308 FSP -2685

MID-COURSE EXECUTION ACCURACY

SGT 2434.7 SGR 607.9 SG3 899.5
 RRT .9629 RRF -.9901 RTF -.9623
 SGB 2509.5 R23 -.2203 R13 -.9654
 SGI 2504.4 SG2 159.5 THA 13.57

ORBIT DETERMINATION ACCURACY

ST 1315.7 SR 401.0 SS 2132.8
 CRT .9850 CRS .9966 CST .9957
 LSA 2535.4 MSA 111.8 SSA 6.5
 EL1 1373.9 EL2 66.3 ALF 16.75

LAUNCH DATE DEC 12 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 396.104

RL 147.28 LAL -.00 LOL 80.04 VL 27.641 GAL 4.14 AZL 87.88 MCA 170.35 SMA 127.83 ECC .16808 INC 2.1202 V1 30.251
 RP 108.57 LAP .36 LOP 250.39 VP 37.505 GAP -4.32 AZP 92.09 TAL 158.69 TAP 329.04 RCA 106.34 APO 149.31 V2 34.906
 RC 61.981 GL 16.36 GP 12.08 ZAL 52.87 ZAP 40.83 ETS 348.09 ZAE 160.08 ETE 25.91 ZAC 120.09 ETC 157.94 CLP -39.31

PLANETOCENTRIC CONIC

C3 13.112 VHL 3.621 DLA 26.34 RAL 20.58 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 4.010 DPA 20.71 RAP 24.90 ECC 1.2158
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 54 2 3135.86 -26.88 106.21 243.70 80.73 3 46 18 2535.9 -27.88 97.69
 90.00 23 44 32 3744.78 -14.10 146.02 239.53 65.19 24 46 56 3144.8 -17.33 138.83
 100.00 4 44 28 2779.82 -29.26 80.39 244.07 83.60 5 30 48 2179.8 -29.84 71.63
 100.00 0 40 42 3576.04 -11.94 132.54 238.44 62.39 1 40 18 2976.0 -15.55 125.60
 110.00 6 43 11 2408.36 -34.18 52.52 244.41 89.65 7 23 20 1808.4 -33.85 43.29
 110.00 0 58 28 3520.27 -7.70 125.77 235.90 56.59 1 57 9 2920.3 -12.04 119.37

DIFFERENTIAL CORRECTIONS

TDE -.6692 TRA-1.1373 TC3 .5750 BAU .1280
 RDE -.2946 RRA -.3514 RC3 .4497 FAU .10242
 FDE 3.5584 FRA 4.8725 FC3-6.7621 BSP 8230
 BDE .7311 BRA 1.1904 BC3 .7299 FSP -2963

MID-COURSE EXECUTION ACCURACY

SGT 2307.9 SGR 841.6 SG3 983.9
 RRT .9653 RRF -.9971 RTF -.9616
 SGB 2456.5 R23 -.2347 R13 -.9691
 SG1 2447.8 SG2 207.1 THA 19.54

ORBIT DETERMINATION ACCURACY

ST 1218.2 SR 502.0 SS 2146.3
 CRT .9905 CRS .9987 CST .9961
 LSA 2916.5 MSA 99.9 SSA 5.4
 EL1 1316.1 EL2 63.7 ALF 22.26

LAUNCH DATE DEC 12 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 402.616

RL 147.28 LAL -.00 LOL 80.04 VL 27.673 GAL 4.05 AZL 88.51 MCA 173.53 SMA 128.05 ECC .16562 INC 1.4883 V1 30.251
 RP 108.60 LAP .17 LOP 253.57 VP 37.518 GAP -3.84 AZP 91.48 TAL 158.81 TAP 332.34 RCA 106.84 APO 149.25 V2 34.894
 RC 64.032 GL 11.86 GP 18.65 ZAL 52.07 ZAP 46.06 ETS 343.48 ZAE 157.36 ETE 43.12 ZAC 116.84 ETC 154.98 CLP -42.91

PLANETOCENTRIC CONIC

C3 12.161 VHL 3.487 DLA 22.15 RAL 22.39 RAD 6567.5 VEL 11.556 PTH 2.02 VHP 3.906 DPA 26.52 RAP 21.53 ECC 1.2001
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 48 2875.23 -28.32 87.32 243.21 90.06 4 59 43 2275.2 -28.01 78.67
 90.00 22 41 11 3973.20 -7.22 159.26 237.85 62.54 23 47 24 3373.2 -10.84 152.46
 100.00 5 49 1 2561.73 -29.83 64.23 243.18 92.06 6 31 43 1961.7 -29.22 55.48
 100.00 23 46 39 3761.93 -5.89 143.01 237.12 60.64 24 49 20 3161.9 -9.76 136.36
 110.00 7 30 12 2245.19 -33.52 39.84 242.83 97.12 8 7 37 1645.2 -32.18 30.87
 110.00 0 25 53 3651.23 -2.74 132.67 235.17 55.91 1 26 44 3051.2 -7.19 126.42

DIFFERENTIAL CORRECTIONS

TDE -.5571 TRA-1.0709 TC3 .5601 BAU .1590
 RDE -.3703 RRA -.5660 RC3 .8015 FAU .10788
 FDE 3.2160 FRA 5.2528 FC3-7.6797 BSP 8379
 BDE .6689 BRA 1.2113 BC3 .9778 FSP -3151

MID-COURSE EXECUTION ACCURACY

SGT 2144.5 SGR 1300.3 SG3 1034.7
 RRT .9620 RRF -.9995 RTF -.9590
 SGB 2507.9 R23 -.2112 R13 -.9770
 SG1 2489.2 SG2 305.9 THA 30.77

ORBIT DETERMINATION ACCURACY

ST 1078.3 SR 679.1 SS 2017.9
 CRT .9952 CRS .9996 CST .9974
 LSA 2385.4 MSA 73.7 SSA 4.9
 EL1 1273.0 EL2 56.3 ALF 32.15

LAUNCH DATE DEC 12 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 409.104

RL 147.28 LAL -.00 LOL 80.04 VL 27.701 GAL 3.97 AZL 90.36 MCA 176.70 SMA 128.24 ECC .16348 INC .3288 V1 30.251
 RP 108.64 LAP -.02 LOP 256.74 VP 37.529 GAP -3.36 AZP 89.64 TAL 158.91 TAP 335.62 RCA 107.27 APO 149.21 V2 34.883
 RC 66.131 GL -2.94 GP 35.30 ZAL 51.20 ZAP 55.64 ETS 333.87 ZAE 144.46 ETE 64.71 ZAC 108.23 ETC 149.43 CLP -46.26

PLANETOCENTRIC CONIC

C3 11.315 VHL 3.964 DLA 8.34 RAL 27.91 RAD 6567.4 VEL 11.520 PTH 2.01 VHP 4.242 DPA 41.22 RAP 12.05 ECC 1.1862
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 46 33 2348.50 -22.58 50.15 242.63 107.56 7 25 41 1748.5 -19.96 42.45
 90.00 20 50 28 4469.74 8.63 187.15 240.05 62.93 22 4 58 3869.7 4.93 180.42
 100.00 8 11 56 2073.13 -23.50 29.56 242.30 109.02 8 46 29 1473.1 -20.69 21.89
 100.00 22 7 46 4220.35 9.49 168.35 239.59 61.52 23 18 6 3620.3 5.62 161.70
 110.00 9 29 23 1830.75 -25.96 10.12 241.26 113.06 9 59 54 1230.8 -22.62 2.56
 110.00 23 6 48 4035.49 11.77 152.96 238.23 57.67 24 14 4 3435.5 7.42 146.57

DIFFERENTIAL CORRECTIONS

TDE -.3982 TRA-1.0417 TC3 .4803 BAU .2550
 RDE -.4118 RRA -1.1813 RC3 1.6155 FAU .09059
 FDE 1.7131 FRA 5.0350 FC3-6.9312 BSP 9716
 BDE .5728 BRA 1.5751 BC3 1.6854 FSP -2645

MID-COURSE EXECUTION ACCURACY

SGT 1944.4 SGR 2410.2 SG3 887.0
 RRT .9547 RRF -1.0000 RTF -.9534
 SGB 3096.7 R23 -.1222 R13 -.9925
 SG1 3063.1 SG2 455.2 THA 51.39

ORBIT DETERMINATION ACCURACY

ST 865.7 SR 930.3 SS 1433.5
 CRT .9987 CRS .9999 CST .9981
 LSA 1915.1 MSA 46.4 SSA 3.3
 EL1 1270.4 EL2 32.4 ALF 47.06

LAUNCH DATE DEC 12 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 415.430

RL 147.28 LAL -.00 LOL 80.04 VL 27.726 GAL 3.93 AZL 149.54 MCA 179.76 SMA 128.41 ECC .16184 INC59.4087 V1 30.251
 RP 108.67 LAP -.21 LOP 259.91 VP 37.537 GAP -2.93 AZP 30.46 TAL 158.87 TAP 338.63 RCA 107.63 APO 149.19 V2 34.873
 RC 68.274 GL -55.63 GP 61.85 ZAL 85.85 ZAP 86.81 ETS 186.44 ZAE 69.07 ETE 305.48 ZAC 83.13 ETC 17.88 CLP 83.23

PLANETOCENTRIC CONIC

C3 834.406 VHL 28.886 DLA -50.12 RAL 28.40 RAD 6572.8 VEL 30.914 PTH 3.46 VHP 37.862 DPA 61.95 RAP 211.72 ECC14.7322
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.74 9 38 6 2313.31 .14 62.92 298.27 140.12 10 16 40 1713.3 6.27 58.19
 133.26 18 2 48 790.62 .15 302.78 298.28 140.12 18 15 59 190.6 6.28 298.05
 46.74 9 38 6 2313.31 .14 62.92 298.27 140.12 10 16 40 1713.3 6.27 58.19
 133.26 18 2 48 790.62 .15 302.78 298.28 140.12 18 15 59 190.6 6.28 298.05
 46.74 9 38 6 2313.31 .14 62.92 298.27 140.12 10 16 40 1713.3 6.27 58.19
 133.26 18 2 48 790.62 .15 302.78 298.28 140.12 18 15 59 190.6 6.28 298.05

DIFFERENTIAL CORRECTIONS

TDE 2.7842 TRA-5.7797 TC3 -.2375 BAU 5.9974
 RDE -.2931 RRA15.2041 RC3 .4823 FAU-.10375
 FDE -.1811 FRA 3.3120 FC3 .1076 BSP 108417
 BDE 2.7996 BRA16.2656 BC3 .5376 FSP 1875

MID-COURSE EXECUTION ACCURACY

SGT 2320.5 SGR 5467.6 SG3 103.6
 RRT -.9668 RRF .9998 RTF -.9722
 SGB 5939.7 R23 -.0163 R13 .9999
 SG1 5914.3 SG2 548.2 THA 112.51

ORBIT DETERMINATION ACCURACY

ST 771.0 SR 1414.8 SS 1014.3
 CRT -.7266 CRS -.9972 CST .7760
 LSA 1839.5 MSA 491.3 SSA .2
 EL1 1535.6 EL2 488.1 ALF 114.20

LAUNCH DATE DEC 12 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -.00 LOL 80.04 VL 27.747 GAL 3.85 AZL 82.60 MCA 183.07 SMA 128.55 ECC .16008 INC 7.4050 VI 30.251
 RP 108.70 LAP -.40 LOP 263.09 VP 37.543 GAP -2.44 AZP 97.39 TAL 159.05 TAP 342.12 RCA 107.98 APO 149.13 V2 34.862
 RC 70.456 GL 45.80 GP -40.22 ZAL 65.64 ZAP 64.16 ETS 27.24 ZAE 136.25 EJE 289.34 ZAC 123.81 ETC 193.37 CLP -55.19

PLANETOCENTRIC CONIC

C3 24.764 VHL 4.976 DLA 51.32 RAL 359.84 RAD 6568.0 VEL 12.089 PTH 2.16 VHP 4.075 DPA -28.46 RAP 43.60 ECC 1.4075
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.22 19 37 32 4360.42 -31.21 206.68 240.85 46.94 20 50 13 3760.4 -36.47 199.83
 134.78 4 15 32 2815.89 -31.19 84.25 240.83 46.93 5 2 28 2215.9 -36.46 77.41
 45.22 19 37 32 4360.42 -31.21 206.68 240.85 46.94 20 50 13 3760.4 -36.47 199.83
 134.78 4 15 32 2815.89 -31.19 84.25 240.83 46.93 5 2 28 2215.9 -36.46 77.41
 45.22 19 37 32 4360.42 -31.21 206.68 240.85 46.94 20 50 13 3760.4 -36.47 199.83
 134.78 4 15 32 2815.89 -31.19 84.25 240.83 46.93 5 2 28 2215.9 -36.46 77.41

DIFFERENTIAL CORRECTIONS

TDE -.9642 TRA -.6490 TC3 .1191 BAU .2566 SGT 1636.0 SGR 2842.6 SG3 957.1 ST 1166.7 SR 2503.6 SS 3379.4
 RDE 2.1531 RRA .6316 RC3 -.7658 FAU .08587 RRT -.9104 RRF .9994 RTF -.9225 CRT -.9851 CRS -.9999 CST .9873
 FDE 8.2393 FRA 2.6472 FC3-3.0020 BSP 10589 SGB 3279.8 R23 -.0705 R13 .9974 LSA 4360.6 MSA 185.9 SSA 1.5
 BDE 2.3591 BRA .9057 BC3 .7750 FSP -3021 SG1 3225.1 SG2 596.4 THA 118.73 EL1 2756.1 EL2 182.2 ALF 114.77

LAUNCH DATE DEC 12 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -.00 LOL 80.04 VL 27.765 GAL 3.81 AZL 84.64 MCA 186.24 SMA 128.68 ECC .15881 INC 5.3564 VI 30.251
 RP 108.73 LAP -.58 LOP 266.25 VP 37.547 GAP -2.00 AZP 95.33 TAL 159.06 TAP 345.31 RCA 108.24 APO 149.11 V2 34.853
 RC 72.672 GL 37.63 GP -23.15 ZAL 61.29 ZAP 63.39 ETS 14.74 ZAE 153.78 ETE 289.55 ZAC 122.86 ETC 179.97 CLP -60.85

PLANETOCENTRIC CONIC

C3 17.951 VHL 4.237 DLA 44.83 RAL 7.39 RAD 6567.7 VEL 11.804 PTH 2.09 VHP 3.300 DPA -13.86 RAP 33.82 ECC 1.2954
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.67 20 36 41 4211.67 -30.95 191.94 240.31 55.78 21 46 53 3611.7 -35.20 184.26
 126.33 4 16 41 2810.21 -30.94 83.46 240.30 55.77 5 3 31 2210.2 -35.19 75.78
 53.67 20 36 41 4211.67 -30.95 191.94 240.31 55.78 21 46 53 3611.7 -35.20 184.26
 126.33 4 16 41 2810.21 -30.94 83.46 240.30 55.77 5 3 31 2210.2 -35.19 75.78
 53.67 20 36 41 4211.67 -30.95 191.94 240.31 55.78 21 46 53 3611.7 -35.20 184.26
 126.33 4 16 41 2810.21 -30.94 83.46 240.30 55.77 5 3 31 2210.2 -35.19 75.78

DIFFERENTIAL CORRECTIONS

TDE -.4786 TRA -.5601 TC3 .0320 BAU .1661 SGT 1249.0 SGR 1829.3 SG3 1445.1 ST 722.2 SR 1463.8 SS 3704.0
 RDE 1.0607 RRA .5100 RC3 -.6915 FAU .13415 RRT -.8677 RRF .9991 RTF -.8820 CRT -.9666 CRS -.9998 CST .9713
 FDE 9.3758 FRA 4.9462 FC3-6.4696 BSP 7115 SGB 2215.1 R23 -.1266 R13 .9915 LSA 4044.0 MSA 173.0 SSA 2.0
 BDE 1.1637 BRA .7575 BC3 .6922 FSP -4377 SG1 2151.2 SG2 527.9 THA 122.87 EL1 1623.7 EL2 166.9 ALF 115.79

LAUNCH DATE DEC 12 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -.00 LOL 80.04 VL 27.779 GAL 3.79 AZL 85.31 MCA 189.42 SMA 128.78 ECC .15781 INC 4.6872 VI 30.251
 RP 108.76 LAP -.77 LOP 269.42 VP 37.550 GAP -1.57 AZP 94.62 TAL 159.04 TAP 348.46 RCA 108.46 APO 149.10 V2 34.844
 RC 74.919 GL 34.35 GP -16.39 ZAL 59.71 ZAP 67.20 ETS 9.26 ZAE 161.42 ETE 285.02 ZAC 120.27 ETC 174.98 CLP -66.18

PLANETOCENTRIC CONIC

C3 16.114 VHL 4.014 DLA 42.09 RAL 9.89 RAD 6567.6 VEL 11.726 PTH 2.07 VHP 3.057 DPA -8.49 RAP 29.15 ECC 1.2652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.46 21 1 49 4146.20 -30.15 185.49 239.88 59.12 22 10 55 3546.2 -34.00 177.62
 122.54 4 11 27 2825.94 -30.14 84.28 239.88 59.10 4 58 33 2225.9 -33.99 76.41
 57.46 21 1 49 4146.20 -30.15 185.49 239.88 59.12 22 10 55 3546.2 -34.00 177.62
 122.54 4 11 27 2825.94 -30.14 84.28 239.88 59.10 4 58 33 2225.9 -33.99 76.41
 57.46 21 1 49 4146.20 -30.15 185.49 239.88 59.12 22 10 55 3546.2 -34.00 177.62
 122.54 4 11 27 2825.94 -30.14 84.28 239.88 59.10 4 58 33 2225.9 -33.99 76.41

DIFFERENTIAL CORRECTIONS

TDE -.2259 TRA -.4321 TC3 -.1192 BAU .1263 SGT 896.6 SGR 1367.8 SG3 1666.6 ST 407.6 SR 1064.0 SS 3762.1
 RDE .7280 RRA .3955 RC3 -.5741 FAU .15914 RRT -.7528 RRF .9979 RTF -.7762 CRT -.9037 CRS -.9995 CST .9162
 FDE 9.6776 FRA 6.0222 FC3-8.5497 BSP 5366 SGB 1635.5 R23 -.1526 R13 .9869 LSA 3927.3 MSA 166.3 SSA 3.0
 BDE .7623 BRA .5858 BC3 .5863 FSP -5169 SG1 1550.4 SG2 520.7 THA 119.99 EL1 1127.4 EL2 164.7 ALF 109.53

LAUNCH DATE DEC 12 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -.00 LOL 80.04 VL 27.791 GAL 3.78 AZL 85.65 MCA 192.59 SMA 128.86 ECC .15705 INC 4.3528 VI 30.251
 RP 108.78 LAP -.95 LOP 272.59 VP 37.551 GAP -1.14 AZP 94.25 TAL 158.99 TAP 351.57 RCA 108.63 APO 149.10 V2 34.835
 RC 77.194 GL 32.60 GP -12.81 ZAL 58.87 ZAP 72.13 ETS 6.20 ZAE 165.71 ETE 273.64 ZAC 117.53 ETC 172.47 CLP -71.66

PLANETOCENTRIC CONIC

C3 15.264 VHL 3.907 DLA 40.62 RAL 11.18 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 2.920 DPA -6.12 RAP 25.63 ECC 1.2512
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.57 21 16 8 4108.59 -29.61 181.87 239.70 60.82 22 24 37 3508.6 -33.25 173.93
 120.43 4 7 26 2839.02 -29.60 85.05 239.69 60.80 4 54 45 2239.0 -33.24 77.11
 59.57 21 16 8 4108.59 -29.61 181.87 239.70 60.82 22 24 37 3508.6 -33.25 173.93
 120.43 4 7 26 2839.02 -29.60 85.05 239.69 60.80 4 54 45 2239.0 -33.24 77.11
 59.57 21 16 8 4108.59 -29.61 181.87 239.70 60.82 22 24 37 3508.6 -33.25 173.93
 120.43 4 7 26 2839.02 -29.60 85.05 239.69 60.80 4 54 45 2239.0 -33.24 77.11

DIFFERENTIAL CORRECTIONS

TDE -.0062 TRA -.2872 TC3 -.3159 BAU .1172 SGT 607.3 SGR 1120.4 SG3 1814.1 ST 166.9 SR 869.8 SS 3799.9
 RDE .5790 RRA .3248 RC3 -.4798 FAU .17472 RRT -.3871 RRF .9955 RTF -.4268 CRT -.2689 CRS -.9990 CST .3110
 FDE 9.9168 FRA 6.7364 FC3-9.9100 BSP 3991 SGB 1274.5 R23 -.0836 R13 .9930 LSA 3898.4 MSA 163.0 SSA 3.9
 BDE .5790 BRA .4336 BC3 .5745 FSP -5681 SG1 1152.3 SG2 544.5 THA 105.36 EL1 871.0 EL2 160.5 ALF 93.06

LAUNCH DATE DEC 12 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 447.610

RL 147.28 LAL -.00 LOL 80.04 VL 27.801 GAL 3.78 AZL 85.85 HCA 195.76 SMA 128.93 ECC .15655 INC 4.1513 V1 30.251
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.550 GAP -.72 AZP 94.00 TAL 158.89 TAP 354.65 RCA 108.75 APO 149.11 V2 34.827
 RC 79.493 GL 31.48 GP -10.57 ZAL 58.29 ZAP 77.52 ETS 4.22 ZAE 167.71 ETE 255.26 ZAC 114.75 ETC 170.95 CLP -77.31

PLANETOCENTRIC CONIC

C3 14.787 VHL 3.845 CLA 39.70 RAL 12.05 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 2.833 DPA -5.06 RAP 22.49 ECC 1.2434
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.92 21 25 44 4084.18 -29.23 179.56 239.69 61.84 22 33 48 3484.2 -32.74 171.59
 119.08 4 4 44 2849.23 -29.22 85.67 239.69 61.82 4 52 13 2249.2 -32.73 77.71
 60.92 21 25 44 4084.18 -29.23 179.56 239.69 61.84 22 33 48 3484.2 -32.74 171.59
 119.08 4 4 44 2849.23 -29.22 85.67 239.69 61.82 4 52 13 2249.2 -32.73 77.71
 60.92 21 25 44 4084.18 -29.23 179.56 239.69 61.84 22 33 48 3484.2 -32.74 171.59
 119.08 4 4 44 2849.23 -29.22 85.67 239.69 61.82 4 52 13 2249.2 -32.73 77.71

DIFFERENTIAL CORRECTIONS

TOE .2093 TRA -.1289 TC3 -.5443 BAU .1342
 RDE .4952 RRA .2757 RC3 -.4056 FAU .18550
 FDE10.0727 FRA 7.2451 FC-10.8604 BSP 3008
 BDE .5376 BRA .3044 BC3 .6788 FSP -6058

MID-COURSE EXECUTION ACCURACY

SGT 578.6 SGR 962.7 SG3 1916.2
 RRT .4081 RRF .9916 RTF .3641
 SGB 1123.2 R23 .2119 R13 .9697
 SG1 1002.0 SG2 507.5 THA 71.24

ORBIT DETERMINATION ACCURACY

ST 321.0 SR 755.1 SS 3815.8
 CRT .9004 CRS -.9982 CST -.8730
 LSA 3899.7 MSA 161.6 SSA 4.8
 EL1 810.0 EL2 130.2 ALF 68.47

LAUNCH DATE DEC 12 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 453.951

RL 147.28 LAL -.00 LOL 80.04 VL 27.807 GAL 3.79 AZL 85.98 HCA 198.92 SMA 128.98 ECC .15627 INC 4.0160 V1 30.251
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.549 GAP -.31 AZP 93.80 TAL 158.75 TAP 357.68 RCA 108.82 APO 149.13 V2 34.820
 RC 81.813 GL 30.68 GP -9.00 ZAL 57.81 ZAP 83.14 ETS 2.80 ZAE 167.51 ETE 234.36 ZAC 111.95 ETC 169.91 CLP -83.05

PLANETOCENTRIC CONIC

C3 14.505 VHL 3.809 CLA 39.08 RAL 12.74 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 2.780 DPA -4.67 RAP 19.52 ECC 1.2387
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.86 21 32 55 4067.29 -28.94 177.97 239.83 62.51 22 40 42 3467.3 -32.37 169.98
 118.14 4 3 4 2857.56 -28.93 86.20 239.83 62.50 4 50 41 2257.6 -32.36 78.21
 61.86 21 32 55 4067.29 -28.94 177.97 239.83 62.51 22 40 42 3467.3 -32.37 169.98
 118.14 4 3 4 2857.56 -28.93 86.20 239.83 62.50 4 50 41 2257.6 -32.36 78.21
 61.86 21 32 55 4067.29 -28.94 177.97 239.83 62.51 22 40 42 3467.3 -32.37 169.98
 118.14 4 3 4 2857.56 -28.93 86.20 239.83 62.50 4 50 41 2257.6 -32.36 78.21

DIFFERENTIAL CORRECTIONS

TOE .4249 TRA .0390 TC3 -.7959 BAU .1681
 RDE .4402 RRA .2376 RC3 -.3435 FAU .19254
 FDE10.1015 FRA 7.5830 FC-11.4915 BSP 2770
 BDE .6118 BRA .2408 BC3 .8668 FSP -6329

MID-COURSE EXECUTION ACCURACY

SGT 884.2 SGR 847.9 SG3 1976.8
 RRT .8225 RRF .9855 RTF .7973
 SGB 1225.1 R23 .3294 R13 .9291
 SG1 1169.5 SG2 364.6 THA 43.54

ORBIT DETERMINATION ACCURACY

ST 639.9 SR 676.5 SS 3801.5
 CRT .9854 CRS -.9970 CST -.9696
 LSA 3910.6 MSA 161.3 SSA 5.6
 EL1 927.8 EL2 79.4 ALF 46.62

LAUNCH DATE DEC 12 1968

FLIGHT TIME 170.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 460.270

RL 147.28 LAL -.00 LOL 80.04 VL 27.812 GAL 3.82 AZL 86.08 HCA 202.09 SMA 129.01 ECC .15623 INC 3.9184 V1 30.251
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.546 GAP -.09 AZP 93.63 TAL 158.58 TAP .67 RCA 108.85 APO 149.16 V2 34.813
 RC 84.153 GL 30.04 GP -7.82 ZAL 57.37 ZAP 88.83 ETS 1.72 ZAE 165.54 ETE 217.40 ZAC 109.19 ETC 169.16 CLP -88.82

PLANETOCENTRIC CONIC

C3 14.347 VHL 3.788 CLA 38.61 RAL 13.37 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 2.757 DPA -4.65 RAP 16.68 ECC 1.2361
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.58 21 38 50 4055.07 -28.70 176.81 240.11 62.98 22 46 25 3455.1 -32.07 168.81
 117.42 4 2 9 2864.91 -28.69 86.67 240.10 62.97 4 49 54 2264.9 -32.06 78.67
 62.58 21 38 50 4055.07 -28.70 176.81 240.11 62.98 22 46 25 3455.1 -32.07 168.81
 117.42 4 2 9 2864.91 -28.69 86.67 240.10 62.97 4 49 54 2264.9 -32.06 78.67
 62.58 21 38 50 4055.07 -28.70 176.81 240.11 62.98 22 46 25 3455.1 -32.07 168.81
 117.42 4 2 9 2864.91 -28.69 86.67 240.10 62.97 4 49 54 2264.9 -32.06 78.67

DIFFERENTIAL CORRECTIONS

TOE .6388 TRA .2130 TC3-1.0615 BAU .2110
 RDE .4000 RRA .2058 RC3 -.2879 FAU .19587
 FDE 9.9862 FRA 7.7712 FC-11.8193 BSP 3464
 BDE .7536 BRA .2961 BC3 1.0998 FSP -6482

MID-COURSE EXECUTION ACCURACY

SGT 1322.9 SGR 756.5 SG3 1997.8
 RRT .9235 RRF .9767 RTF .9152
 SGB 1523.9 R23 .2562 R13 .9431
 SG1 1502.4 SG2 255.6 THA 28.75

ORBIT DETERMINATION ACCURACY

ST 974.4 SR 616.7 SS 3756.0
 CRT .9976 CRS -.9954 CST -.9867
 LSA 3925.7 MSA 161.8 SSA 6.4
 EL1 1152.6 EL2 36.0 ALF 32.30

LAUNCH DATE DEC 12 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 466.568

RL 147.28 LAL -.00 LOL 80.04 VL 27.814 GAL 3.86 AZL 86.16 HCA 205.26 SMA 129.02 ECC .15641 INC 3.8442 V1 30.251
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.542 GAP -.49 AZP 93.48 TAL 158.36 TAP 3.61 RCA 108.84 APO 149.20 V2 34.807
 RC 86.508 GL 29.50 GP -6.88 ZAL 56.91 ZAP 94.50 ETS .88 ZAE 162.57 ETE 205.96 ZAC 106.52 ETC 168.57 CLP -94.53

PLANETOCENTRIC CONIC

C3 14.278 VHL 3.779 CLA 38.24 RAL 13.98 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 2.760 DPA -4.83 RAP 13.98 ECC 1.2350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.15 21 44 6 4045.92 -28.48 175.93 240.51 63.32 22 51 32 3445.9 -31.81 167.93
 116.85 4 1 49 2871.93 -28.47 87.12 240.50 63.30 4 49 41 2271.9 -31.80 79.13
 63.15 21 44 6 4045.92 -28.48 175.93 240.51 63.32 22 51 32 3445.9 -31.81 167.93
 116.85 4 1 49 2871.93 -28.47 87.12 240.50 63.30 4 49 41 2271.9 -31.80 79.13
 63.15 21 44 6 4045.92 -28.48 175.93 240.51 63.32 22 51 32 3445.9 -31.81 167.93
 116.85 4 1 49 2871.93 -28.47 87.12 240.50 63.30 4 49 41 2271.9 -31.80 79.13

DIFFERENTIAL CORRECTIONS

TOE .8478 TRA .3905 TC3-1.3304 BAU .2579
 RDE .3684 RRA .1776 RC3 -.2365 FAU .19561
 FDE 9.7279 FRA 7.8212 FC-11.8608 BSP 4697
 BDE .9244 BRA .4290 BC3 1.3512 FSP -6518

MID-COURSE EXECUTION ACCURACY

SGT 1797.7 SGR 679.4 SG3 1981.4
 RRT .9467 RRF .9640 RTF .9546
 SGB 1921.8 R23 .1496 R13 .9612
 SG1 1910.8 SG2 205.8 THA 19.93

ORBIT DETERMINATION ACCURACY

ST 1305.7 SR 568.0 SS 3680.7
 CRT .9999 CRS -.9933 CST -.9923
 LSA 3943.2 MSA 162.6 SSA 7.0
 EL1 1423.8 EL2 8.3 ALF 23.51

LAUNCH DATE DEC 12 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -1.00 LOL 80.04 VL 27.814 GAL 3.92 AZL 86.21 HCA 208.42 SMA 129.02 ECC .15680 INC 3.7857 V1 30.251
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.537 GAP .88 AZP 93.33 TAL 158.09 TAP 6.51 RCA 108.79 APO 149.26 V2 34.802
 RC 88.877 GL 29.00 GP -6.10 ZAL 56.44 ZAP 100.04 ETS .20 ZAE 159.18 ETE 198.55 ZAC 104.02 ETC 168.10 CLP-100.09

PLANETOCENTRIC CONIC

C3 14.282 VHL 3.779 DLA 37.94 RAL 14.62 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 2.788 DPA -5.11 RAP 11.48 ECC 1.2350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.63 21 49 2 4039.09 -28.26 175.24 241.03 63.57 22 56 21 3439.1 -31.57 167.25
 116.37 4 2 0 2878.88 -28.25 87.57 241.02 63.56 4 49 59 2278.9 -31.56 79.58
 63.63 21 49 2 4039.09 -28.26 175.24 241.03 63.57 22 56 21 3439.1 -31.57 167.25
 116.37 4 2 0 2878.88 -28.25 87.57 241.02 63.56 4 49 59 2278.9 -31.56 79.58
 63.63 21 49 2 4039.09 -28.26 175.24 241.03 63.57 22 56 21 3439.1 -31.57 167.25
 116.37 4 2 0 2878.88 -28.25 87.57 241.02 63.56 4 49 59 2278.9 -31.56 79.58

DIFFERENTIAL CORRECTIONS

TDE 1.0486 TRA .5686 TC3-1.5939 BAU .3064 SGT 2274.5 SGR 613.1 SG3 1933.2 ST 1623.6 SR 527.2 SS 3584.6
 RDE .3428 RRA .1524 RC3 -.1866 FAU .19115 RRT .9440 RRF .9463 RTF .9710 CRT .9993 CRS -.9904 CST -.9948
 FDE 9.3575 FRA 7.7629 FC-11.5874 BSP 6127 SGB 2355.7 R23 .0690 R13 .9727 LSA 3967.0 MSA 163.7 SSA 7.6
 BOE 1.4032 BRA .5887 BC3 1.6048 FSP -6414 SG1 2347.5 SG2 195.9 THA 14.38 EL1 1706.9 EL2 19.4 ALF 17.98

LAUNCH DATE DEC 12 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -1.00 LOL 80.04 VL 27.813 GAL 3.98 AZL 86.26 HCA 211.58 SMA 129.01 ECC .15740 INC 3.7380 V1 30.251
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.531 GAP 1.27 AZP 93.19 TAL 157.79 TAP 9.37 RCA 108.71 APO 149.32 V2 34.797
 RC 91.256 GL 28.52 GP -5.44 ZAL 55.93 ZAP 105.38 ETS 359.66 ZAE 155.67 ETE 193.63 ZAC 101.75 ETC 167.73 CLP-105.45

PLANETOCENTRIC CONIC

C3 14.348 VHL 3.788 DLA 37.67 RAL 15.30 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 2.839 DPA -5.42 RAP 9.21 ECC 1.2361
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.05 21 53 53 4033.85 -28.05 174.69 241.67 63.76 23 1 7 3433.9 -31.33 166.71
 115.95 4 2 32 2886.15 -28.04 88.05 241.66 63.74 4 50 39 2286.2 -31.32 80.06
 64.05 21 53 53 4033.85 -28.05 174.69 241.67 63.76 23 1 7 3433.9 -31.33 166.71
 115.95 4 2 32 2886.15 -28.04 88.05 241.66 63.74 4 50 39 2286.2 -31.32 80.06
 64.05 21 53 53 4033.85 -28.05 174.69 241.67 63.76 23 1 7 3433.9 -31.33 166.71
 115.95 4 2 32 2886.15 -28.04 88.05 241.66 63.74 4 50 39 2286.2 -31.32 80.06

DIFFERENTIAL CORRECTIONS

TDE 1.2371 TRA .7445 TC3-1.8432 BAU .3546 SGT 2734.1 SGR 555.2 SG3 1855.4 ST 1919.8 SR 491.7 SS 3462.1
 RDE .3214 RRA .1288 RC3 -.1408 FAU .18453 RRT .9280 RRF .9216 RTF .9793 CRT .9972 CRS -.9867 CST -.9960
 FDE 8.8746 FRA 7.5892 FC-11.1342 BSP 7602 SGB 2789.9 R23 .0208 R13 .9797 LSA 3985.7 MSA 164.7 SSA 8.2
 BOE 1.2782 BRA .7556 BC3 1.8485 FSP -6242 SG1 2782.5 SG2 203.2 THA 10.73 EL1 1981.4 EL2 35.8 ALF 14.33

LAUNCH DATE DEC 12 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -1.00 LOL 80.04 VL 27.809 GAL 4.07 AZL 86.30 HCA 214.75 SMA 128.99 ECC .15821 INC 3.6981 V1 30.251
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.525 GAP 1.66 AZP 93.04 TAL 157.44 TAP 12.18 RCA 108.58 APO 149.40 V2 34.793
 RC 93.644 GL 28.06 GP -4.87 ZAL 55.37 ZAP 110.47 ETS 359.23 ZAE 152.23 ETE 190.23 ZAC 99.74 ETC 167.42 CLP-110.55

PLANETOCENTRIC CONIC

C3 14.471 VHL 3.804 DLA 37.42 RAL 16.02 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.911 DPA -5.70 RAP 7.21 ECC 1.2382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.44 21 58 44 4029.99 -27.82 174.25 242.43 63.89 23 5 54 3430.0 -31.09 166.28
 115.56 4 3 27 2893.81 -27.81 88.55 242.42 63.88 4 51 40 2293.8 -31.08 80.58
 64.44 21 58 44 4029.99 -27.82 174.25 242.43 63.89 23 5 54 3430.0 -31.09 166.28
 115.56 4 3 27 2893.81 -27.81 88.55 242.42 63.88 4 51 40 2293.8 -31.08 80.58
 64.44 21 58 44 4029.99 -27.82 174.25 242.43 63.89 23 5 54 3430.0 -31.09 166.28
 115.56 4 3 27 2893.81 -27.81 88.55 242.42 63.88 4 51 40 2293.8 -31.08 80.58

DIFFERENTIAL CORRECTIONS

TDE 1.4120 TRA .9173 TC3-2.0718 BAU .4013 SGT 3167.7 SGR 506.3 SG3 1760.9 ST 2190.3 SR 461.8 SS 3326.3
 RDE .3039 RRA .1071 RC3 -.0982 FAU .17559 RRT .9007 RRF .8887 RTF .9839 CRT .9940 CRS -.9821 CST -.9967
 FDE 8.3307 FRA 7.3452 FC-10.5044 BSP 9045 SGB 3207.9 R23 -.0039 R13 .9839 LSA 4006.0 MSA 165.9 SSA 8.7
 BOE 1.4443 BRA .9236 BC3 2.0741 FSP -5989 SG1 3200.5 SG2 217.7 THA 8.23 EL1 2237.9 EL2 49.4 ALF 11.84

LAUNCH DATE DEC 12 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -1.00 LOL 80.04 VL 27.804 GAL 4.16 AZL 86.34 HCA 217.91 SMA 128.95 ECC .15923 INC 3.6642 V1 30.251
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.518 GAP 2.04 AZP 92.89 TAL 157.05 TAP 14.95 RCA 108.42 APO 149.49 V2 34.789
 RC 96.038 GL 27.58 GP -4.38 ZAL 54.78 ZAP 115.27 ETS 358.88 ZAE 148.97 ETE 187.80 ZAC 98.04 ETC 167.18 CLP-115.35

PLANETOCENTRIC CONIC

C3 14.649 VHL 3.827 DLA 37.19 RAL 16.79 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 3.001 DPA -5.93 RAP 5.51 ECC 1.2411
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.81 22 3 43 4027.09 -27.58 173.88 243.30 64.00 23 10 50 3427.1 -30.84 165.92
 115.19 4 4 36 2902.15 -27.57 89.09 243.29 63.98 4 52 58 2302.1 -30.83 81.14
 64.81 22 3 43 4027.09 -27.58 173.88 243.30 64.00 23 10 50 3427.1 -30.84 165.92
 115.19 4 4 36 2902.15 -27.57 89.09 243.29 63.98 4 52 58 2302.1 -30.83 81.14
 64.81 22 3 43 4027.09 -27.58 173.88 243.30 64.00 23 10 50 3427.1 -30.84 165.92
 115.19 4 4 36 2902.15 -27.57 89.09 243.29 63.98 4 52 58 2302.1 -30.83 81.14

DIFFERENTIAL CORRECTIONS

TDE 1.5722 TRA 1.0862 TC3-2.2754 BAU .4458 SGT 3569.2 SGR 466.5 SG3 1653.2 ST 2432.5 SR 437.1 SS 3181.8
 RDE .2901 RRA .0874 RC3 -.0593 FAU .16512 RRT .8627 RRF .8465 RTF .9866 CRT .9898 CRS -.9764 CST -.9972
 FDE 7.7541 FRA 7.0515 FC3-9.7583 BSP 10421 SGB 3599.5 R23 -.0163 R13 .9865 LSA 4025.4 MSA 167.0 SSA 9.1
 BOE 1.5987 BRA 1.0897 BC3 2.2761 FSP -5687 SG1 3591.9 SG2 234.4 THA 6.46 EL1 2470.7 EL2 61.2 ALF 10.09

LAUNCH DATE DEC 12 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 497.743

RL 147.28 LAL -.00 LOL 80.04 VL 27.798 GAL 4.27 AZL 86.37 MCA 221.07 SMA 128.91 ECC .16045 INC 3.6347 V1 30.251
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.511 GAP 2.42 AZP 92.74 TAL 156.61 TAP 17.68 RCA 108.22 APO 149.59 V2 34.787
 RC 98.436 GL 27.10 GP -3.95 ZAL 54.14 ZAP 119.76 ETS 358.62 ZAE 145.93 ETE 186.00 ZAC 96.65 ETC 166.99 CLP-119.84

PLANETOCENTRIC CONIC

C3 14.881 VML 3.858 DLA 36.97 RAL 17.62 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 3.108 DPA -6.09 RAP 4.12 ECC 1.2449
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.17 22 8 53 4025.07 -27.33 173.58 244.28 64.07 23 15 58 3425.1 -30.57 165.64
 114.83 4 6 1 2911.17 -27.31 89.68 244.28 64.05 4 54 32 2311.2 -30.56 81.75
 65.17 22 8 53 4025.07 -27.33 173.58 244.28 64.07 23 15 58 3425.1 -30.57 165.64
 114.83 4 6 1 2911.17 -27.31 89.68 244.28 64.05 4 54 32 2311.2 -30.56 81.75
 65.17 22 8 53 4025.07 -27.33 173.58 244.28 64.07 23 15 58 3425.1 -30.57 165.64
 114.83 4 6 1 2911.17 -27.31 89.68 244.28 64.05 4 54 32 2311.2 -30.56 81.75

DIFFERENTIAL CORRECTIONS

TDE 1.7183 TRA 1.2516 TC3-2.4502 BAU .4875
 ROE .2798 RRA .0696 RC3 -.0246 FAU .15368
 FDE 7.1738 FRA 6.7308 FC3-8.9408 BSP 11701
 BOE 1.7410 BRA 1.2535 BC3 2.4504 FSP -5346

MID-COURSE EXECUTION ACCURACY

SGT 3937.1 SGR 435.7 SG3 1539.9
 RRT .8148 RRF .7956 RTF .9882
 SGB 3961.1 R23 -.0222 R13 .9881
 SG1 3953.1 SG2 251.6 THA 5.17

ORBIT DETERMINATION ACCURACY

ST 2646.5 SR 417.4 SS 3034.3
 CRT .9844 CRS -.9699 CST -.9974
 LSA 4044.3 MSA 168.2 SSA 9.6
 EL1 2678.2 EL2 71.8 ALF 8.84

LAUNCH DATE DEC 12 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 503.914

RL 147.28 LAL -.00 LOL 80.04 VL 27.789 GAL 4.40 AZL 86.39 MCA 224.23 SMA 128.85 ECC .16188 INC 3.6088 V1 30.251
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.503 GAP 2.80 AZP 92.59 TAL 156.14 TAP 20.37 RCA 107.99 APO 149.71 V2 34.785
 RC 100.837 GL 26.60 GP -3.57 ZAL 53.45 ZAP 123.95 ETS 358.41 ZAE 143.14 ETE 184.65 ZAC 95.57 ETC 166.86 CLP-124.02

PLANETOCENTRIC CONIC

C3 15.168 VML 3.895 DLA 36.75 RAL 18.49 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 3.231 DPA -6.17 RAP 3.03 ECC 1.2496
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.53 22 14 17 4023.76 -27.05 173.32 245.37 64.11 23 21 21 3423.8 -30.29 165.40
 114.47 4 7 37 2921.01 -27.04 90.33 245.36 64.10 4 56 18 2321.0 -30.28 82.41
 65.53 22 14 17 4023.76 -27.05 173.32 245.37 64.11 23 21 21 3423.8 -30.29 165.40
 114.47 4 7 37 2921.01 -27.04 90.33 245.36 64.10 4 56 18 2321.0 -30.28 82.41
 65.53 22 14 17 4023.76 -27.05 173.32 245.37 64.11 23 21 21 3423.8 -30.29 165.40
 114.47 4 7 37 2921.01 -27.04 90.33 245.36 64.10 4 56 18 2321.0 -30.28 82.41

DIFFERENTIAL CORRECTIONS

TDE 1.8526 TRA 1.4163 TC3-2.5900 BAU .5252
 ROE .2730 RRA .0539 RC3 .0062 FAU .14135
 FDE 6.6161 FRA 6.4119 FC3-8.0681 BSP 12837
 BOE 1.8726 BRA 1.4173 BC3 2.5900 FSP -4968

MID-COURSE EXECUTION ACCURACY

SGT 4273.2 SGR 413.7 SG3 1427.1
 RRT .7593 RRF .7382 RTF .9892
 SGB 4293.2 R23 -.0244 R13 .9891
 SG1 4284.8 SG2 268.5 THA 4.22

ORBIT DETERMINATION ACCURACY

ST 2835.6 SR 402.7 SS 2890.8
 CRT .9788 CRS -.9625 CST -.9976
 LSA 4065.8 MSA 169.6 SSA 10.1
 EL1 2862.9 EL2 81.6 ALF 7.92

LAUNCH DATE DEC 12 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 510.063

RL 147.28 LAL -.00 LOL 80.04 VL 27.780 GAL 4.53 AZL 86.41 MCA 227.39 SMA 128.79 ECC .16352 INC 3.5856 V1 30.251
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.495 GAP 3.18 AZP 92.43 TAL 155.62 TAP 23.02 RCA 107.73 APO 149.84 V2 34.784
 RC 103.240 GL 26.09 GP -3.25 ZAL 52.71 ZAP 127.83 ETS 358.25 ZAE 140.59 ETE 183.60 ZAC 94.80 ETC 166.76 CLP-127.90

PLANETOCENTRIC CONIC

C3 15.510 VML 3.938 DLA 36.53 RAL 19.42 RAD 6567.6 VEL 11.700 PTH 2.06 VHP 3.367 DPA -6.17 RAP 2.24 ECC 1.2553
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.89 22 19 55 4023.05 -26.75 173.10 246.56 64.14 23 26 59 3423.0 -29.99 165.20
 114.11 4 9 23 2931.76 -26.74 91.03 246.56 64.13 4 58 15 2331.8 -29.98 83.14
 65.89 22 19 55 4023.05 -26.75 173.10 246.56 64.14 23 26 59 3423.0 -29.99 165.20
 114.11 4 9 23 2931.76 -26.74 91.03 246.56 64.13 4 58 15 2331.8 -29.98 83.14
 65.89 22 19 55 4023.05 -26.75 173.10 246.56 64.14 23 26 59 3423.0 -29.99 165.20
 114.11 4 9 23 2931.76 -26.74 91.03 246.56 64.13 4 58 15 2331.8 -29.98 83.14

DIFFERENTIAL CORRECTIONS

TDE 1.9717 TRA 1.5766 TC3-2.7060 BAU .5611
 ROE .2690 RRA .0398 RC3 .0316 FAU .12983
 FDE 6.0727 FRA 6.0822 FC3-7.2467 BSP 13924
 BOE 1.9900 BRA 1.5771 BC3 2.7061 FSP -4620

MID-COURSE EXECUTION ACCURACY

SGT 4573.8 SGR 398.7 SG3 1315.7
 RRT .6994 RRF .6768 RTF .9898
 SGB 4591.1 R23 -.0253 R13 .9897
 SG1 4582.3 SG2 284.5 THA 3.50

ORBIT DETERMINATION ACCURACY

ST 2994.4 SR 392.0 SS 2744.6
 CRT .9723 CRS -.9544 CST -.9977
 LSA 4077.2 MSA 171.1 SSA 10.5
 EL1 3018.5 EL2 90.9 ALF 7.26

LAUNCH DATE DEC 12 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 516.191

RL 147.28 LAL -.00 LOL 80.04 VL 27.769 GAL 4.69 AZL 86.44 MCA 230.55 SMA 128.71 ECC .16537 INC 3.5647 V1 30.251
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.486 GAP 3.56 AZP 92.27 TAL 155.07 TAP 25.62 RCA 107.43 APO 150.00 V2 34.783
 RC 105.643 GL 25.56 GP -2.96 ZAL 51.94 ZAP 131.42 ETS 358.13 ZAE 138.29 ETE 182.78 ZAC 94.31 ETC 166.69 CLP-131.49

PLANETOCENTRIC CONIC

C3 15.911 VML 3.989 DLA 36.30 RAL 20.40 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 3.516 DPA -6.09 RAP 1.73 ECC 1.2618
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.27 22 25 50 4022.85 -26.42 172.91 247.85 64.15 23 32 53 3422.9 -29.67 165.04
 113.73 4 11 16 2943.50 -26.41 91.80 247.85 64.14 5 0 20 2343.5 -29.66 83.93
 66.27 22 25 50 4022.85 -26.42 172.91 247.85 64.15 23 32 53 3422.9 -29.67 165.04
 113.73 4 11 16 2943.50 -26.41 91.80 247.85 64.14 5 0 20 2343.5 -29.66 83.93
 66.27 22 25 50 4022.85 -26.42 172.91 247.85 64.15 23 32 53 3422.9 -29.67 165.04
 113.73 4 11 16 2943.50 -26.41 91.80 247.85 64.14 5 0 20 2343.5 -29.66 83.93

DIFFERENTIAL CORRECTIONS

TDE 2.0800 TRA 1.7370 TC3-2.7917 BAU .5939
 ROE .2679 RRA .0276 RC3 .0527 FAU .11853
 FDE 5.5674 FRA 5.7679 FC3-6.4504 BSP 14910
 BOE 2.0972 BRA 1.7372 BC3 2.7922 FSP -4278

MID-COURSE EXECUTION ACCURACY

SGT 4844.8 SGR 390.2 SG3 1210.0
 RRT .6393 RRF .6162 RTF .9902
 SGB 4860.5 R23 -.0250 R13 .9901
 SG1 4851.2 SG2 299.6 THA 2.96

ORBIT DETERMINATION ACCURACY

ST 3129.5 SR 385.1 SS 2604.4
 CRT .9653 CRS -.9459 CST -.9978
 LSA 4086.0 MSA 172.8 SSA 10.9
 EL1 3151.6 EL2 99.8 ALF 6.78

LAUNCH DATE DEC 12 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -1.00 LOL 80.04 VL 27.758 GAL 4.86 AZL 86.45 MCA 233.72 SMA 128.63 ECC .16744 INC 3.5456 V1 30.251
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.478 GAP 3.94 AZP 92.10 TAL 154.48 TAP 28.20 RCA 107.09 APO 150.17 V2 34.783
 RC 108.045 GL 25.01 GP -2.71 ZAL 51.12 ZAP 134.75 ETS 358.05 ZAE 136.23 ETE 182.12 ZAC 94.09 ETC 166.66 CLP-134.82

PLANETOCENTRIC CONIC

C3 16.373 VHL 4.046 DLA 36.07 RAL 21.42 RAD 6567.7 VEL 11.737 PTH 2.07 VHP 3.677 DPA -5.93 RAP 1.48 ECC 1.2695
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.66 22 32 2 4023.10 -26.07 172.74 249.24 64.14 23 39 6 3423.1 -29.33 164.90
 113.34 4 13 15 2956.31 -26.06 92.64 249.23 64.13 5 2 31 2356.3 -29.31 84.80
 66.66 22 32 2 4023.10 -26.07 172.74 249.24 64.14 23 39 6 3423.1 -29.33 164.90
 113.34 4 13 15 2956.31 -26.06 92.64 249.23 64.13 5 2 31 2356.3 -29.31 84.80
 66.66 22 32 2 4023.10 -26.07 172.74 249.24 64.14 23 39 6 3423.1 -29.33 164.90
 113.34 4 13 15 2956.31 -26.06 92.64 249.23 64.13 5 2 31 2356.3 -29.31 84.80

DIFFERENTIAL CORRECTIONS

TDE 2.1783 TRA 1.8978 TC3-2.8498 BAU .6240
 RDE .2693 RRA .0171 RC3 .0695 FAU .10782
 FDE 5.1009 FRA 5.4703 FC3-5.7007 BSP 15800
 BDE 2.1949 BRA 1.8979 BC3 2.8506 FSP -3949

MID-COURSE EXECUTION ACCURACY

SGT 5087.8 SGR 386.6 SG3 1110.8
 RRT .5828 RRF .5599 RTF .9903
 SGB 5102.4 R23 -.0240 R13 .9903
 SG1 5092.8 SG2 313.9 TMA 2.55

ORBIT DETERMINATION ACCURACY

ST 3242.4 SR 381.4 SS 2469.9
 CRT .9582 CRS -.9373 CST -.9978
 LSA 4090.0 MSA 174.8 SSA 11.3
 EL1 3262.9 EL2 108.5 ALF 6.44

LAUNCH DATE DEC 12 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -1.00 LOL 80.04 VL 27.745 GAL 5.04 AZL 86.47 MCA 236.88 SMA 128.54 ECC .16973 INC 3.5280 V1 30.251
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.469 GAP 4.33 AZP 91.93 TAL 153.86 TAP 30.73 RCA 106.72 APO 150.36 V2 34.784
 RC 110.446 GL 24.44 GP -2.49 ZAL 50.27 ZAP 137.84 ETS 357.99 ZAE 134.37 ETE 181.60 ZAC 94.11 ETC 166.65 CLP-137.89

PLANETOCENTRIC CONIC

C3 16.903 VHL 4.111 DLA 35.83 RAL 22.49 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 3.848 DPA -5.69 RAP 1.46 ECC 1.2782
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.07 22 38 32 4023.73 -25.70 172.58 250.72 64.12 23 45 36 3423.7 -28.95 164.77
 112.93 4 15 16 2970.27 -25.68 93.55 250.71 64.11 5 4 46 2370.3 -28.94 85.74
 67.07 22 38 32 4023.73 -25.70 172.58 250.72 64.12 23 45 36 3423.7 -28.95 164.77
 112.93 4 15 16 2970.27 -25.68 93.55 250.71 64.11 5 4 46 2370.3 -28.94 85.74
 67.07 22 38 32 4023.73 -25.70 172.58 250.72 64.12 23 45 36 3423.7 -28.95 164.77
 112.93 4 15 16 2970.27 -25.68 93.55 250.71 64.11 5 4 46 2370.3 -28.94 85.74

DIFFERENTIAL CORRECTIONS

TDE 2.2678 TRA 2.0608 TC3-2.8825 BAU .6516
 RDE .2730 RRA .0083 RC3 .0822 FAU .09783
 FDE 4.6749 FRA 5.1936 FC3-5.0107 BSP 16612
 BDE 2.2841 BRA 2.0608 BC3 2.8837 FSP -3642

MID-COURSE EXECUTION ACCURACY

SGT 5306.1 SGR 386.8 SG3 1019.1
 RRT .5326 RRF .5104 RTF .9903
 SGB 5320.1 R23 -.0226 R13 .9903
 SG1 5310.1 SG2 327.1 TMA 2.23

ORBIT DETERMINATION ACCURACY

ST 3335.0 SR 380.6 SS 2342.2
 CRT .9510 CRS -.9289 CST -.9978
 LSA 4089.3 MSA 177.0 SSA 11.6
 EL1 3354.7 EL2 116.9 ALF 6.20

LAUNCH DATE DEC 12 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -1.00 LOL 80.04 VL 27.731 GAL 5.24 AZL 86.49 MCA 240.04 SMA 128.44 ECC .17226 INC 3.5117 V1 30.251
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.461 GAP 4.72 AZP 91.76 TAL 153.20 TAP 33.24 RCA 106.32 APO 150.57 V2 34.786
 RC 112.844 GL 23.85 GP -2.30 ZAL 49.37 ZAP 140.70 ETS 357.95 ZAE 132.71 ETE 181.18 ZAC 94.36 ETC 166.66 CLP-140.75

PLANETOCENTRIC CONIC

C3 17.503 VHL 4.184 DLA 35.58 RAL 23.60 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 4.029 DPA -5.39 RAP 1.66 ECC 1.2881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.49 22 45 19 4024.73 -25.29 172.45 252.28 64.09 23 52 24 3424.7 -28.56 164.67
 112.51 4 17 19 2985.41 -25.28 94.54 252.28 64.08 5 7 5 2385.4 -28.55 86.76
 67.49 22 45 19 4024.73 -25.29 172.45 252.28 64.09 23 52 24 3424.7 -28.56 164.67
 112.51 4 17 19 2985.41 -25.28 94.54 252.28 64.08 5 7 5 2385.4 -28.55 86.76
 67.49 22 45 19 4024.73 -25.29 172.45 252.28 64.09 23 52 24 3424.7 -28.56 164.67
 112.51 4 17 19 2985.41 -25.28 94.54 252.28 64.08 5 7 5 2385.4 -28.55 86.76

DIFFERENTIAL CORRECTIONS

TDE 2.3523 TRA 2.2302 TC3-2.8845 BAU .6753
 RDE .2790 RRA .0012 RC3 .0918 FAU .08814
 FDE 4.2943 FRA 4.9462 FC3-4.3596 BSP 17286
 BDE 2.3688 BRA 2.2302 BC3 2.8859 FSP -3341

MID-COURSE EXECUTION ACCURACY

SGT 5505.1 SGR 389.7 SG3 935.6
 RRT .4909 RRF .4701 RTF .9902
 SGB 5518.9 R23 -.0205 R13 .9901
 SG1 5508.4 SG2 339.3 TMA 2.00

ORBIT DETERMINATION ACCURACY

ST 3413.6 SR 382.1 SS 2224.8
 CRT .9441 CRS -.9207 CST -.9979
 LSA 4088.5 MSA 179.6 SSA 12.0
 EL1 3432.6 EL2 125.2 ALF 6.04

LAUNCH DATE DEC 12 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

RL 147.28 LAL -1.00 LOL 80.04 VL 27.716 GAL 5.46 AZL 86.50 MCA 243.20 SMA 128.34 ECC .17503 INC 3.4963 V1 30.251
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.452 GAP 5.11 AZP 91.58 TAL 152.51 TAP 35.71 RCA 105.88 APO 150.81 V2 34.789
 RC 115.239 GL 23.24 GP -2.13 ZAL 48.45 ZAP 143.36 ETS 357.93 ZAE 131.23 ETE 180.83 ZAC 94.81 ETC 166.69 CLP-143.41

PLANETOCENTRIC CONIC

C3 18.182 VHL 4.264 DLA 35.32 RAL 24.74 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.220 DPA -5.03 RAP 2.05 ECC 1.2992
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.95 22 52 25 4025.93 -24.86 172.31 253.93 64.06 23 59 31 3425.9 -28.13 164.57
 112.05 4 19 19 3001.92 -24.84 95.62 253.92 64.04 5 9 21 2401.9 -28.12 87.88
 67.95 22 52 25 4025.93 -24.86 172.31 253.93 64.06 23 59 31 3425.9 -28.13 164.57
 112.05 4 19 19 3001.92 -24.84 95.62 253.92 64.04 5 9 21 2401.9 -28.12 87.88
 67.95 22 52 25 4025.93 -24.86 172.31 253.93 64.06 23 59 31 3425.9 -28.13 164.57
 112.05 4 19 19 3001.92 -24.84 95.62 253.92 64.04 5 9 21 2401.9 -28.12 87.88

DIFFERENTIAL CORRECTIONS

TDE 2.4270 TRA 2.4008 TC3-2.8721 BAU .6986
 RDE .2866 RRA -.0045 RC3 .0976 FAU .07967
 FDE 3.9421 FRA 4.7122 FC3-3.7935 BSP 17964
 BDE 2.4439 BRA 2.4008 BC3 2.8738 FSP -3080

MID-COURSE EXECUTION ACCURACY

SGT 5680.4 SGR 394.1 SG3 858.6
 RRT .4567 RRF .4373 RTF .9900
 SGB 5694.1 R23 -.0186 R13 .9899
 SG1 5683.3 SG2 350.4 TMA 1.82

ORBIT DETERMINATION ACCURACY

ST 3470.9 SR 385.1 SS 2110.1
 CRT .9374 CRS -.9129 CST -.9979
 LSA 4076.1 MSA 182.5 SSA 12.3
 EL1 3489.7 EL2 133.4 ALF 5.95

LAUNCH DATE DEC 12 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 546.473

RL 147.28 LAL -.00 LOL 80.04 VL 27.700 GAL 5.70 AZL 86.52 MCA 246.36 SMA 128.24 ECC .17805 INC 3.4818 V1 30.251
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.443 GAP 5.51 AZP 91.40 TAL 151.79 TAP 38.15 RCA 105.40 APO 151.07 V2 34.792
 RC 117.630 GL 22.62 GP -1.98 ZAL 47.49 ZAP 145.84 ETS 357.92 ZAE 129.90 ETE 180.55 ZAC 95.44 ETC 166.73 CLP-145.89

PLANETOCENTRIC CONIC

C3 18.947 VHL 4.353 DLA 35.05 RAL 25.91 RAD 6567.8 VEL 11.846 PTH 2.10 VHP 4.421 DPA -4.61 RAP 2.61 ECC 1.3118
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.42 22 59 49 4027.40 -24.39 172.18 255.66 64.01 24 6 56 3427.4 -27.68 164.47
 111.58 4 21 16 3019.78 -24.38 96.78 255.65 64.00 5 11 36 2419.8 -27.67 89.08
 68.42 22 59 49 4027.40 -24.39 172.18 255.66 64.01 24 6 56 3427.4 -27.68 164.47
 111.58 4 21 16 3019.78 -24.38 96.78 255.65 64.00 5 11 36 2419.8 -27.67 89.08
 68.42 22 59 49 4027.40 -24.39 172.18 255.66 64.01 24 6 56 3427.4 -27.68 164.47
 111.58 4 21 16 3019.78 -24.38 96.78 255.65 64.00 5 11 36 2419.8 -27.67 89.08

DIFFERENTIAL CORRECTIONS

TDE 2.4969 TRA 2.5778 TC3-2.8381 BAU .7193
 RDE .2959 RRA -.0088 RC3 .1007 FAU .07183
 FDE 3.6261 FRA 4.5001 FC3-3.2820 BSP 18569
 BOE 2.5144 BRA 2.5778 BC3 2.8394 FSP -2839

MID-COURSE EXECUTION ACCURACY

SGT 5838.4 SGR 399.5 SG3 788.6
 RRT .4308 RRF .4131 RTF .9897
 SGB 5852.1 R23 -.0166 R13 .9897
 SG1 5841.0 SG2 360.4 THA 1.70

ORBIT DETERMINATION ACCURACY

ST 3514.9 SR 389.6 SS 2003.3
 CRT .9310 CRS -.9055 CST -.9979
 LSA 4060.1 MSA 185.6 SSA 12.5
 EL1 3533.6 EL2 141.4 ALF 5.90

LAUNCH DATE DEC 12 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 552.452

RL 147.28 LAL -.00 LOL 80.04 VL 27.684 GAL 5.96 AZL 86.53 MCA 249.52 SMA 128.12 ECC .18134 INC 3.4679 V1 30.251
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.435 GAP 5.92 AZP 91.21 TAL 151.04 TAP 40.57 RCA 104.89 APO 151.36 V2 34.796
 RC 120.015 GL 21.98 GP -1.84 ZAL 46.51 ZAP 148.16 ETS 357.91 ZAE 128.71 ETE 180.32 ZAC 96.22 ETC 166.77 CLP-148.20

PLANETOCENTRIC CONIC

C3 19.805 VHL 4.450 DLA 34.77 RAL 27.11 RAD 6567.8 VEL 11.882 PTH 2.11 VHP 4.632 DPA -4.14 RAP 3.33 ECC 1.3259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.93 23 7 31 4029.05 -23.90 172.04 257.46 63.96 24 14 40 3429.0 -27.20 164.38
 111.07 4 23 7 3039.10 -23.88 98.04 257.45 63.95 5 13 46 2439.1 -27.18 90.38
 68.93 23 7 31 4029.05 -23.90 172.04 257.46 63.96 24 14 40 3429.0 -27.20 164.38
 111.07 4 23 7 3039.10 -23.88 98.04 257.45 63.95 5 13 46 2439.1 -27.18 90.38
 68.93 23 7 31 4029.05 -23.90 172.04 257.46 63.96 24 14 40 3429.0 -27.20 164.38
 111.07 4 23 7 3039.10 -23.88 98.04 257.45 63.95 5 13 46 2439.1 -27.18 90.38

DIFFERENTIAL CORRECTIONS

TDE 2.5619 TRA 2.7620 TC3-2.7858 BAU .7381
 RDE .3067 RRA -.0116 RC3 .1014 FAU .06464
 FDE 3.3409 FRA 4.3083 FC3-2.8257 BSP 19120
 BOE 2.5802 BRA 2.7621 BC3 2.7877 FSP -2619

MID-COURSE EXECUTION ACCURACY

SGT 5980.4 SGR 405.5 SG3 725.0
 RRT .4123 RRF .3963 RTF .9894
 SGB 5994.2 R23 -.0144 R13 .9894
 SG1 5982.8 SG2 369.3 THA 1.61

ORBIT DETERMINATION ACCURACY

ST 3545.6 SR 394.9 SS 1902.9
 CRT .9249 CRS -.8985 CST -.9979
 LSA 4038.8 MSA 189.0 SSA 12.7
 EL1 3564.4 EL2 149.3 ALF 5.89

LAUNCH DATE DEC 12 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 558.402

RL 147.28 LAL -.00 LOL 80.04 VL 27.667 GAL 6.23 AZL 86.55 MCA 252.69 SMA 128.01 ECC .18491 INC 3.4546 V1 30.251
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.426 GAP 6.33 AZP 91.03 TAL 150.27 TAP 42.96 RCA 104.34 APO 151.67 V2 34.800
 RC 122.394 GL 21.33 GP -1.72 ZAL 45.51 ZAP 150.33 ETS 357.91 ZAE 127.64 ETE 180.14 ZAC 97.16 ETC 166.81 CLP-150.38

PLANETOCENTRIC CONIC

C3 20.768 VHL 4.557 DLA 34.47 RAL 28.32 RAD 6567.8 VEL 11.923 PTH 2.12 VHP 4.852 DPA -3.62 RAP 4.18 ECC 1.3418
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.47 23 15 31 4030.80 -23.37 171.90 259.33 63.91 24 22 42 3430.8 -26.68 164.28
 110.53 4 24 49 3060.01 -23.36 99.40 259.33 63.90 5 15 49 2460.0 -26.67 91.78
 69.47 23 15 31 4030.80 -23.37 171.90 259.33 63.91 24 22 42 3430.8 -26.68 164.28
 110.53 4 24 49 3060.01 -23.36 99.40 259.33 63.90 5 15 49 2460.0 -26.67 91.78
 69.47 23 15 31 4030.80 -23.37 171.90 259.33 63.91 24 22 42 3430.8 -26.68 164.28
 110.53 4 24 49 3060.01 -23.36 99.40 259.33 63.90 5 15 49 2460.0 -26.67 91.78

DIFFERENTIAL CORRECTIONS

TDE 2.6263 TRA 2.9578 TC3-2.7106 BAU .7531
 RDE .3189 RRA -.0129 RC3 .1003 FAU .05778
 FDE 3.0895 FRA 4.1402 FC3-2.4086 BSP 19541
 BOE 2.6456 BRA 2.9578 BC3 2.7125 FSP -2405

MID-COURSE EXECUTION ACCURACY

SGT 6111.7 SGR 411.7 SG3 668.0
 RRT .4010 RRF .3871 RTF .9890
 SGB 6125.5 R23 -.0120 R13 .9889
 SG1 6113.9 SG2 377.1 THA 1.55

ORBIT DETERMINATION ACCURACY

ST 3569.2 SR 401.0 SS 1812.0
 CRT .9192 CRS -.8920 CST -.9979
 LSA 4018.2 MSA 192.7 SSA 12.9
 EL1 3588.2 EL2 157.0 ALF 5.91

LAUNCH DATE DEC 12 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 564.320

RL 147.28 LAL -.00 LOL 80.04 VL 27.649 GAL 6.53 AZL 86.56 MCA 255.85 SMA 127.88 ECC .18878 INC 3.4418 V1 30.251
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.418 GAP 6.76 AZP 90.84 TAL 149.48 TAP 45.33 RCA 103.74 APO 152.03 V2 34.805
 RC 124.766 GL 20.66 GP -1.62 ZAL 44.49 ZAP 152.38 ETS 357.90 ZAE 126.69 ETE 179.99 ZAC 98.21 ETC 166.86 CLP-152.42

PLANETOCENTRIC CONIC

C3 21.848 VHL 4.674 DLA 34.16 RAL 29.56 RAD 6567.9 VEL 11.968 PTH 2.13 VHP 5.083 DPA -3.06 RAP 5.16 ECC 1.3596
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.04 23 23 50 4032.69 -22.81 171.75 261.27 63.85 24 31 2 3432.7 -26.14 164.17
 109.96 4 26 20 3082.50 -22.80 100.86 261.27 63.84 5 17 43 2482.5 -26.12 93.28
 70.04 23 23 50 4032.69 -22.81 171.75 261.27 63.85 24 31 2 3432.7 -26.14 164.17
 109.96 4 26 20 3082.50 -22.80 100.86 261.27 63.84 5 17 43 2482.5 -26.12 93.28
 110.00 4 35 28 3054.68 -23.62 99.12 261.70 64.54 5 26 23 2454.7 -26.84 91.44
 110.00 4 17 48 3108.51 -22.00 102.46 260.83 63.15 5 9 37 2508.5 -25.42 94.98

DIFFERENTIAL CORRECTIONS

TDE 2.6834 TRA 3.1587 TC3-2.6283 BAU .7682
 RDE .3322 RRA -.0130 RC3 .0972 FAU .05182
 FDE 2.8571 FRA 3.9826 FC3-2.0536 BSP 20010
 BOE 2.7039 BRA 3.1587 BC3 2.6301 FSP -2224

MID-COURSE EXECUTION ACCURACY

SGT 6225.2 SGR 417.7 SG3 615.6
 RRT .3947 RRF .3825 RTF .9886
 SGB 6239.2 R23 -.0100 R13 .9885
 SG1 6227.4 SG2 383.6 THA 1.52

ORBIT DETERMINATION ACCURACY

ST 3577.2 SR 407.3 SS 1723.6
 CRT .9137 CRS -.8858 CST -.9979
 LSA 3986.7 MSA 196.5 SSA 12.9
 EL1 3596.5 EL2 164.6 ALF 5.95

LAUNCH DATE DEC 12 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 570.205

RL 147.28 LAL -0.00 LOL 80.04 VL 27.631 GAL 6.85 AZL 86.57 MCA 259.02 SMA 127.76 ECC .19298 INC 3.4293 V1 30.251
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.410 GAP 7.20 AZP 90.65 TAL 148.67 TAP 47.69 RCA 103.10 APO 152.41 V2 34.811
 RC 127.128 GL 19.98 GP -1.52 ZAL 43.45 ZAP 154.31 ETS 357.90 ZAE 125.82 ETE 179.87 ZAC 99.38 ETC 166.90 CLP-154.36

PLANETOCENTRIC CONIC

C3 23.057 VML 4.802 DLA 33.84 RAL 30.80 RAD 6567.9 VEL 12.018 PTH 2.15 VMP 5.325 DPA -2.47 RAP 6.24 ECC 1.3795
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.64 23 32 27 4034.56 -22.22 171.58 263.27 63.80 24 39 42 3434.6 -25.56 164.04
 109.36 4 27 38 3106.78 -22.21 102.44 263.27 63.78 5 19 24 2506.8 -25.55 94.90
 70.64 23 32 27 4034.56 -22.22 171.58 263.27 63.80 24 39 42 3434.6 -25.56 164.04
 109.36 4 27 38 3106.78 -22.21 102.44 263.27 63.78 5 19 24 2506.8 -25.55 94.90
 110.00 5 8 8 2983.04 -25.64 94.53 265.00 66.57 5 57 51 2383.0 -28.58 86.59
 110.00 3 55 3 3206.30 -18.88 108.33 261.41 60.96 4 48 29 2606.3 -22.60 101.17

DIFFERENTIAL CORRECTIONS

TDE 2.7382 TRA 3.3702 TC3-2.5334 BAU .7814
 RDE .3465 RRA -.0116 RC3 .0928 FAU .04638
 FDE 2.6483 FRA 3.8412 FC3-1.7415 BSP 20431
 BOE 2.7600 BRA 3.3703 BC3 2.5351 FSP -2058

MID-COURSE EXECUTION ACCURACY

SGT 6327.5 SGR 423.3 SG3 568.1
 RRT .3934 RRF .3829 RTF .9881
 SGB 6341.6 R23 -.0079 R13 .9881
 SG1 6329.7 SG2 389.1 THA 1.51

ORBIT DETERMINATION ACCURACY

ST 3576.3 SR 413.5 SS 1641.4
 CRT .9085 CRS -.8799 CST -.9979
 LSA 3951.6 MSA 200.4 SSA 13.0
 EL1 3596.1 EL2 171.9 ALF 6.01

LAUNCH DATE DEC 12 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 576.052

RL 147.28 LAL -0.00 LOL 80.04 VL 27.612 GAL 7.20 AZL 86.58 MCA 262.18 SMA 127.63 ECC .19752 INC 3.4170 V1 30.251
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.402 GAP 7.65 AZP 90.47 TAL 147.84 TAP 50.02 RCA 102.42 APO 152.84 V2 34.818
 RC 129.481 GL 19.30 GP -1.44 ZAL 42.41 ZAP 156.15 ETS 357.89 ZAE 125.05 ETE 179.77 ZAC 100.66 ETC 166.94 CLP-156.19

PLANETOCENTRIC CONIC

C3 24.412 VML 4.941 DLA 33.51 RAL 32.05 RAD 6568.0 VEL 12.074 PTH 2.16 VMP 5.578 DPA -1.84 RAP 7.42 ECC 1.4018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.29 23 41 24 4036.36 -21.60 171.39 265.34 63.74 24 48 41 3436.4 -24.95 163.90
 108.71 4 28 38 3132.92 -21.59 104.14 265.33 63.73 5 20 51 2532.9 -24.94 96.65
 71.29 23 41 24 4036.36 -21.60 171.39 265.34 63.74 24 48 41 3436.4 -24.95 163.90
 108.71 4 28 38 3132.92 -21.59 104.14 265.33 63.73 5 20 51 2532.9 -24.94 96.65
 110.00 5 27 57 2951.32 -26.48 92.45 267.75 67.55 6 17 8 2351.3 -29.28 84.39
 110.00 3 45 12 3265.97 -16.87 111.79 262.65 59.82 4 39 38 2666.0 -20.75 104.82

DIFFERENTIAL CORRECTIONS

TDE 2.7915 TRA 3.5936 TC3-2.4261 BAU .7923
 RDE .3618 RRA -.0087 RC3 .0873 FAU .04134
 FDE 2.4608 FRA 3.7147 FC3-1.4662 BSP 20806
 BOE 2.8148 BRA 3.5937 BC3 2.4277 FSP -1905

MID-COURSE EXECUTION ACCURACY

SGT 6419.1 SGR 428.6 SG3 525.1
 RRT .3964 RRF .3876 RTF .9877
 SGB 6433.4 R23 -.0059 R13 .9877
 SG1 6421.4 SG2 393.3 THA 1.52

ORBIT DETERMINATION ACCURACY

ST 3568.1 SR 419.6 SS 1565.2
 CRT .9034 CRS -.8744 CST -.9979
 LSA 3913.5 MSA 204.3 SSA 13.0
 EL1 3588.3 EL2 178.9 ALF 6.08

LAUNCH DATE DEC 12 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 581.860

RL 147.28 LAL -0.00 LOL 80.04 VL 27.592 GAL 7.57 AZL 86.60 MCA 265.35 SMA 127.50 ECC .20245 INC 3.4050 V1 30.251
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.394 GAP 8.12 AZP 90.28 TAL 146.99 TAP 52.35 RCA 101.69 APO 153.31 V2 34.825
 RC 131.823 GL 18.60 GP -1.36 ZAL 41.35 ZAP 157.90 ETS 357.86 ZAE 124.34 ETE 179.70 ZAC 102.02 ETC 166.97 CLP-157.94

PLANETOCENTRIC CONIC

C3 25.933 VML 5.092 DLA 33.16 RAL 33.30 RAD 6568.0 VEL 12.137 PTH 2.18 VMP 5.844 DPA -1.18 RAP 8.69 ECC 1.4268
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.98 23 50 42 4038.01 -20.95 171.17 267.45 63.69 24 58 0 3438.0 -24.31 163.72
 108.02 4 29 19 3161.06 -20.93 105.97 267.44 63.68 5 22 0 2561.1 -24.30 98.52
 71.98 23 50 42 4038.01 -20.95 171.17 267.45 63.69 24 58 0 3438.0 -24.31 163.72
 108.02 4 29 19 3161.06 -20.93 105.97 267.44 63.68 5 22 0 2561.1 -24.30 98.52
 110.00 5 44 42 2929.63 -27.03 91.01 270.42 68.24 6 33 32 2329.6 -29.74 82.87
 110.00 3 38 24 3317.44 -15.09 114.71 264.08 58.96 4 33 42 2717.4 -19.09 107.88

DIFFERENTIAL CORRECTIONS

TDE 2.8425 TRA 3.8295 TC3-2.3103 BAU .8015
 RDE .3780 RRA -.0044 RC3 .0811 FAU .03675
 FDE 2.2911 FRA 3.6011 FC3-1.2268 BSP 21157
 BOE 2.8675 BRA 3.8295 BC3 2.3117 FSP -1766

MID-COURSE EXECUTION ACCURACY

SGT 6500.4 SGR 433.2 SG3 485.9
 RRT .4030 RRF .3957 RTF .9873
 SGB 6514.8 R23 -.0040 R13 .9873
 SG1 6502.7 SG2 396.4 THA 1.54

ORBIT DETERMINATION ACCURACY

ST 3552.1 SR 425.3 SS 1493.9
 CRT .8984 CRS -.8691 CST -.9980
 LSA 3871.2 MSA 208.3 SSA 13.0
 EL1 3572.6 EL2 185.7 ALF 6.16

LAUNCH DATE DEC 12 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 587.623

RL 147.28 LAL -0.00 LOL 80.04 VL 27.572 GAL 7.96 AZL 86.61 MCA 268.52 SMA 127.37 ECC .20778 INC 3.3930 V1 30.251
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.387 GAP 8.60 AZP 90.09 TAL 146.14 TAP 54.66 RCA 100.90 APO 153.83 V2 34.833
 RC 134.153 GL 17.90 GP -1.30 ZAL 40.29 ZAP 159.56 ETS 357.82 ZAE 123.70 ETE 179.65 ZAC 103.45 ETC 166.99 CLP-159.60

PLANETOCENTRIC CONIC

C3 27.641 VML 5.257 DLA 32.80 RAL 34.54 RAD 6568.1 VEL 12.207 PTH 2.19 VMP 6.123 DPA -.50 RAP 10.02 ECC 1.4549
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.71 0 4 17 4039.38 -20.26 170.91 269.62 63.64 1 11 36 3439.4 -23.63 163.51
 107.29 4 29 36 3191.35 -20.25 107.94 269.61 63.63 5 22 47 2591.4 -23.62 100.53
 72.71 0 4 17 4039.38 -20.26 170.91 269.62 63.64 1 11 36 3439.4 -23.63 163.51
 107.29 4 29 36 3191.35 -20.25 107.94 269.61 63.63 5 22 47 2591.4 -23.62 100.53
 110.00 5 59 52 2913.51 -27.44 89.93 273.08 68.76 6 48 26 2313.5 -30.07 81.73
 110.00 3 33 11 3365.21 -13.39 117.38 265.64 58.25 4 29 16 2765.2 -17.49 110.67

DIFFERENTIAL CORRECTIONS

TDE 2.8964 TRA 4.0827 TC3-2.1811 BAU .8065
 RDE .3949 RRA .0015 RC3 .0746 FAU .03234
 FDE 2.1416 FRA 3.5028 FC3-1.0129 BSP 21389
 BOE 2.9232 BRA 4.0827 BC3 2.1824 FSP -1630

MID-COURSE EXECUTION ACCURACY

SGT 6576.0 SGR 437.5 SG3 450.7
 RRT .4132 RRF .4074 RTF .9869
 SGB 6590.5 R23 -.0021 R13 .9869
 SG1 6578.5 SG2 398.2 THA 1.58

ORBIT DETERMINATION ACCURACY

ST 3534.1 SR 430.4 SS 1429.8
 CRT .8936 CRS -.8642 CST -.9980
 LSA 3830.7 MSA 212.0 SSA 13.0
 EL1 3555.0 EL2 192.0 ALF 6.23

LAUNCH DATE DEC 12 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 593.337

RL 147.28 LAL -0.00 LOL 80.04 VL 27.552 GAL 8.39 AZL 86.62 HCA 271.69 SMA 127.23 ECC .21355 INC 3.3811 V1 30.251
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.380 GAP 9.11 AZP 89.90 TAL 145.28 TAP 56.97 RCA 100.06 APO 154.40 V2 34.841
 RC 136.471 GL 17.20 GP -1.23 ZAL 39.24 ZAP 161.16 ETS 357.77 ZAE 123.12 ETE 179.61 ZAC 104.96 ETC 166.99 CLP-161.20

PLANETOCENTRIC CONIC

C3 29.561 VHL 5.437 CLA 32.43 RAL 35.78 RAD 6568.2 VEL 12.286 PTH 2.21 VHP 6.417 DPA .21 RAP 11.43 ECC 1.4865
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.49 0 14 20 4040.29 -19.54 170.60 271.83 63.59 1 21 40 3440.3 -22.93 163.24
 106.51 4 29 25 3223.99 -19.53 110.06 271.82 63.58 5 23 9 2624.0 -22.92 102.70
 73.49 0 14 20 4040.29 -19.54 170.60 271.83 63.59 1 21 40 3440.3 -22.93 163.24
 106.51 4 29 25 3223.99 -19.53 110.06 271.82 63.58 5 23 9 2624.0 -22.92 102.70
 110.00 6 14 1 2901.22 -27.74 89.10 275.74 69.17 7 2 22 2301.2 -30.31 80.85
 110.00 3 28 54 3411.06 -11.74 119.90 267.28 57.66 4 25 45 2811.1 -15.92 113.29

DIFFERENTIAL CORRECTIONS

TDE 2.9460 TRA 4.3474 TC3-2.0514 BAU .8112
 RDE .4124 RRA .0089 RC3 .0677 FAU .02847
 FDE 2.0030 FRA 3.4119 FC3 -.8336 BSP 21684
 BDE 2.9747 BRA 4.3474 BC3 2.0525 FSP -1515

MID-COURSE EXECUTION ACCURACY

SGT 6638.9 SGR 440.9 SG3 418.1
 RRT .4253 RRF .4207 RTF .9865
 SGB 6653.5 R23 -.0005 R13 .9865
 SG1 6641.5 SG2 398.9 THA 1.62

ORBIT DETERMINATION ACCURACY

ST 3506.3 SR 434.6 SS 1368.2
 CRT .8888 CRS -.8592 CST -.9981
 LSA 3782.6 MSA 215.7 SSA 12.9
 EL1 3527.6 EL2 198.0 ALF 6.31

LAUNCH DATE DEC 12 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 598.995

RL 147.28 LAL -0.00 LOL 80.04 VL 27.532 GAL 8.85 AZL 86.63 HCA 274.86 SMA 127.09 ECC .21982 INC 3.3691 V1 30.251
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.373 GAP 9.64 AZP 89.71 TAL 144.41 TAP 59.28 RCA 99.15 APO 155.03 V2 34.850
 RC 138.775 GL 16.49 GP -1.18 ZAL 38.19 ZAP 162.71 ETS 357.69 ZAE 122.58 ETE 179.58 ZAC 106.52 ETC 166.99 CLP-162.75

PLANETOCENTRIC CONIC

C3 31.726 VHL 5.633 CLA 32.05 RAL 37.00 RAD 6568.3 VEL 12.373 PTH 2.23 VHP 6.728 DPA .93 RAP 12.89 ECC 1.5221
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.33 0 24 47 4040.67 -18.79 170.24 274.09 63.56 1 32 8 3440.7 -22.19 162.92
 105.67 4 28 44 3259.09 -18.78 112.34 274.08 63.55 5 23 3 2659.1 -22.18 105.03
 74.33 0 24 47 4040.67 -18.79 170.24 274.09 63.56 1 32 8 3440.7 -22.19 162.92
 105.67 4 28 44 3259.09 -18.78 112.34 274.08 63.55 5 23 3 2659.1 -22.18 105.03
 110.00 6 27 24 2891.89 -27.96 88.47 278.42 69.48 7 15 36 2291.9 -30.49 80.19
 110.00 3 25 17 3455.87 -10.09 122.33 268.99 57.17 4 22 53 2855.9 -14.35 115.81

DIFFERENTIAL CORRECTIONS

TDE 2.9960 TRA 4.6287 TC3-1.9169 BAU .8134
 RDE .4305 RRA .0179 RC3 .0607 FAU .02489
 FDE 1.8781 FRA 3.3313 FC3 -.6793 BSP 21951
 BDE 3.0267 BRA 4.6287 BC3 1.9178 FSP -1409

MID-COURSE EXECUTION ACCURACY

SGT 6693.8 SGR 443.8 SG3 388.5
 RRT .4397 RRF .4360 RTF .9862
 SGB 6708.5 R23 -.0010 R13 .9862
 SG1 6696.6 SG2 398.4 THA 1.68

ORBIT DETERMINATION ACCURACY

ST 3474.0 SR 438.0 SS 1311.3
 CRT .8841 CRS -.8546 CST -.9982
 LSA 3732.6 MSA 219.1 SSA 12.7
 EL1 3495.6 EL2 203.4 ALF 6.38

LAUNCH DATE DEC 12 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 604.590

RL 147.28 LAL -0.00 LOL 80.04 VL 27.511 GAL 9.35 AZL 86.64 HCA 278.04 SMA 126.95 ECC .22662 INC 3.3570 V1 30.251
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.367 GAP 10.20 AZP 89.53 TAL 143.54 TAP 61.58 RCA 98.18 APO 155.72 V2 34.860
 RC 141.067 GL 15.78 GP -1.13 ZAL 37.14 ZAP 164.20 ETS 357.57 ZAE 122.08 ETE 179.57 ZAC 108.14 ETC 166.96 CLP-164.24

PLANETOCENTRIC CONIC

C3 34.170 VHL 5.846 CLA 31.65 RAL 38.21 RAD 6568.3 VEL 12.472 PTH 2.26 VHP 7.057 DPA 1.67 RAP 14.40 ECC 1.5624
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.24 0 35 44 4040.17 -18.01 169.79 276.39 63.53 1 43 4 3440.2 -21.42 162.52
 104.76 4 27 24 3297.01 -18.00 114.81 276.38 63.52 5 22 21 2697.0 -21.41 107.54
 75.24 0 35 44 4040.17 -18.01 169.79 276.39 63.53 1 43 4 3440.2 -21.42 162.52
 104.76 4 27 24 3297.01 -18.00 114.81 276.38 63.52 5 22 21 2697.0 -21.41 107.54
 110.00 6 40 11 2884.98 -28.13 88.00 281.13 69.72 7 28 16 2285.0 -30.62 79.69
 110.00 3 22 8 3500.19 -8.45 124.70 270.76 56.75 4 20 28 2900.2 -12.76 118.27

DIFFERENTIAL CORRECTIONS

TDE 3.0468 TRA 4.9285 TC3-1.7782 BAU .8127
 RDE .4491 RRA .0286 RC3 .0539 FAU .02156
 FDE 1.7655 FRA 3.2607 FC3 -.5462 BSP 22186
 BDE 3.0797 BRA 4.9286 BC3 1.7790 FSP -1311

MID-COURSE EXECUTION ACCURACY

SGT 6741.1 SGR 445.9 SG3 361.4
 RRT .4559 RRF .4531 RTF .9859
 SGB 6755.9 R23 .0023 R13 .9859
 SG1 6744.2 SG2 396.7 THA 1.73

ORBIT DETERMINATION ACCURACY

ST 3438.1 SR 440.3 SS 1258.9
 CRT .8794 CRS -.8500 CST -.9982
 LSA 3681.0 MSA 222.2 SSA 12.6
 EL1 3459.9 EL2 208.3 ALF 6.45

LAUNCH DATE DEC 12 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 610.114

RL 147.28 LAL -0.00 LOL 80.04 VL 27.490 GAL 9.89 AZL 86.66 HCA 281.21 SMA 126.81 ECC .23402 INC 3.3447 V1 30.251
 RP 108.68 LAP -3.28 LOP 37.361 GAP 10.79 AZP 89.35 TAL 142.68 TAP 63.90 RCA 97.14 APO 156.49 V2 34.870
 RC 143.344 GL 15.07 GP -1.08 ZAL 36.11 ZAP 165.64 ETS 357.42 ZAE 121.62 ETE 179.57 ZAC 109.80 ETC 166.92 CLP-165.68

PLANETOCENTRIC CONIC

C3 36.939 VHL 6.078 CLA 31.24 RAL 39.40 RAD 6568.4 VEL 12.582 PTH 2.28 VHP 7.406 DPA 2.42 RAP 15.96 ECC 1.6079
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.21 0 47 15 4038.51 -17.20 169.24 278.72 63.51 1 54 34 3438.5 -20.62 162.01
 103.79 4 25 21 3338.02 -17.19 117.49 278.71 63.50 5 20 59 2738.0 -20.61 110.26
 76.21 0 47 15 4038.51 -17.20 169.24 278.72 63.51 1 54 34 3438.5 -20.62 162.01
 103.79 4 25 21 3338.02 -17.19 117.49 278.71 63.50 5 20 59 2738.0 -20.61 110.26
 110.00 6 52 28 2880.18 -28.24 87.67 283.86 69.88 7 40 29 2280.2 -30.71 79.34
 110.00 3 19 18 3544.35 -6.79 127.05 272.58 56.42 4 18 22 2944.3 -11.16 120.68

DIFFERENTIAL CORRECTIONS

TDE 3.0992 TRA 5.2486 TC3-1.6369 BAU .8087
 RDE .4682 RRA .0411 RC3 .0474 FAU .01845
 FDE 1.6641 FRA 3.1994 FC3 -.4324 BSP 22388
 BDE 3.1344 BRA 5.2488 BC3 1.6376 FSP -1221

MID-COURSE EXECUTION ACCURACY

SGT 6781.4 SGR 447.4 SG3 336.6
 RRT .4737 RRF .4715 RTF .9857
 SGB 6796.2 R23 .0034 R13 .9857
 SG1 6784.8 SG2 393.8 THA 1.80

ORBIT DETERMINATION ACCURACY

ST 3399.1 SR 441.6 SS 1210.9
 CRT .8748 CRS -.8458 CST -.9983
 LSA 3628.3 MSA 224.8 SSA 12.4
 EL1 3421.1 EL2 212.6 ALF 6.51

LAUNCH DATE DEC 13 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 21 1969

HELIOCENTRIC CONIC

DISTANCE 134.707

RL 147.26 LAL -1.00 LOL 81.05 VL 17.313 GAL 22.68 AZL 86.31 MCA 41.98 SMA 88.32 ECC .72656 INC 3.6889 V1 30.254
 RP 107.48 LAP 2.47 LOP 122.97 VP 31.094 GAP -45.26 AZP 87.26 TAL 170.63 TAP 212.60 RCA 24.15 APO 152.49 V2 35.256
 RC 75.571 GL 3.71 GP .35 ZAL 64.45 ZAP 31.23 ETS 179.86 ZAE 137.55 ETE 188.48 ZAC 69.44 ETC 164.21 CLP 31.23

PLANETOCENTRIC CONIC

C3 252.930 VHL 15.904 CLA 9.97 RAL 13.91 RAD 6571.5 VEL 19.345 PTH 3.10 VHP 25.790 DPA -12.72 RAP 337.22 ECC 5.1626
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 46 3081.47 -27.41 102.32 280.61 82.61 6 25 8 2481.5 -28.15 93.73
 90.00 20 3 41 5096.72 24.54 226.10 270.88 75.42 21 28 38 4496.7 22.30 218.15
 100.00 7 0 2 2803.24 -29.07 82.10 280.85 82.71 7 46 46 2203.2 -29.77 73.37
 100.00 21 20 6 4850.18 26.16 207.50 270.41 75.00 22 40 56 4250.2 23.84 199.47
 110.00 8 19 28 2554.67 -33.54 63.88 281.51 82.96 9 2 3 1954.7 -34.15 54.69
 110.00 22 17 9 4671.52 30.50 192.57 269.04 73.75 23 35 1 4071.5 27.97 184.29

DIFFERENTIAL CORRECTIONS

TDE -.7541 TRA-1.8936 TC3 -.1116 BAU .3804
 RDE -1.1244 RRA .5244 RC3 -.0143 FAU .01226
 FDE .3635 FRA .6948 FC3 -.0420 BSP 2420
 BDE 1.3539 BRA 1.9648 BC3 .1125 FSP -60

MID-COURSE EXECUTION ACCURACY

SGT 824.3 SGR 450.5 SG3 27.3
 RRT -.0178 RRF .0126 RTF -.6314
 SGB 939.4 R23 .0034 R13 .6314
 SG1 824.4 SG2 450.4 THA 179.20

ORBIT DETERMINATION ACCURACY

ST 342.2 SR 409.2 SS 337.8
 CRT .7008 CRS .7844 CST .9905
 LSA 590.0 MSA 224.2 SSA 13.8
 EL1 493.5 EL2 202.4 ALF 52.19

LAUNCH DATE DEC 13 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 140.470

RL 147.26 LAL -1.00 LOL 81.05 VL 18.042 GAL 21.68 AZL 86.34 MCA 45.23 SMA 89.86 ECC .69919 INC 3.6561 V1 30.254
 RP 107.48 LAP 2.59 LOP 126.22 VP 31.507 GAP -43.19 AZP 87.42 TAL 169.79 TAP 215.01 RCA 27.03 APO 152.69 V2 35.258
 RC 75.439 GL 4.03 GP .36 ZAL 63.22 ZAP 29.70 ETS 180.01 ZAE 137.80 ETE 188.98 ZAC 71.10 ETC 164.46 CLP 29.70

PLANETOCENTRIC CONIC

C3 230.854 VHL 15.194 CLA 10.75 RAL 14.95 RAD 6571.3 VEL 18.766 PTH 3.06 VHP 24.802 DPA -12.10 RAP 338.86 ECC 4.7993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 31 32 3094.73 -27.29 103.27 281.06 82.14 6 23 7 2494.7 -28.10 94.70
 90.00 20 14 13 5058.26 23.86 223.49 270.76 74.28 21 38 32 4458.3 21.47 215.63
 100.00 6 58 15 2815.07 -28.97 82.96 281.32 82.27 7 45 10 2215.1 -29.73 74.24
 100.00 21 30 12 4813.16 25.48 204.96 270.25 73.82 22 50 25 4213.2 23.02 197.03
 110.00 8 18 40 2563.40 -33.46 64.55 282.02 82.57 9 1 24 1963.4 -34.13 55.37
 110.00 22 26 16 4637.59 29.82 190.16 268.76 72.47 23 43 33 4037.6 27.14 182.00

DIFFERENTIAL CORRECTIONS

TDE -.7638 TRA-1.9130 TC3 -.1200 BAU .3738
 RDE -1.0870 RRA .5017 RC3 -.0161 FAU .01234
 FDE .3788 FRA .7212 FC3 -.0463 BSP 2355
 BDE 1.3285 BRA 1.9777 BC3 .1211 FSP -63

MID-COURSE EXECUTION ACCURACY

SGT 869.0 SGR 455.5 SG3 29.5
 RRT -.0140 RRF .0104 RTF -.6503
 SGB 981.2 R23 .0021 R13 .6503
 SG1 869.0 SG2 455.4 THA 179.42

ORBIT DETERMINATION ACCURACY

ST 362.8 SR 414.0 SS 354.2
 CRT .7015 CRS .7856 CST .9905
 LSA 612.5 MSA 230.4 SSA 14.0
 EL1 508.6 EL2 210.4 ALF 50.34

LAUNCH DATE DEC 13 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 146.336

RL 147.26 LAL -1.00 LOL 81.05 VL 18.723 GAL 20.73 AZL 86.37 MCA 48.47 SMA 91.41 ECC .67218 INC 3.6267 V1 30.254
 RP 107.48 LAP 2.71 LOP 129.47 VP 31.903 GAP -41.23 AZP 87.59 TAL 168.96 TAP 217.43 RCA 29.97 APO 152.85 V2 35.259
 RC 71.328 GL 4.38 GP .37 ZAL 62.04 ZAP 28.19 ETS 180.18 ZAE 138.13 ETE 189.51 ZAC 72.78 ETC 164.70 CLP 28.19

PLANETOCENTRIC CONIC

C3 210.813 VHL 14.519 CLA 11.53 RAL 15.94 RAD 6571.2 VEL 18.224 PTH 3.02 VHP 23.848 DPA -11.45 RAP 340.51 ECC 4.4694
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 5 3107.19 -27.17 104.17 281.39 81.71 6 20 52 2507.2 -28.04 95.61
 90.00 20 24 33 5019.29 23.12 220.88 270.57 73.17 21 48 13 4419.3 20.59 213.11
 100.00 6 56 15 2826.06 -28.86 83.77 281.66 81.86 7 43 21 2226.1 -29.69 75.06
 100.00 21 40 4 4775.66 24.75 202.42 270.02 72.67 22 59 40 4175.7 22.14 194.59
 110.00 8 17 41 2571.26 -33.39 65.16 282.40 82.22 9 0 32 1971.3 -34.11 55.99
 110.00 22 35 8 4603.22 29.10 187.75 268.43 71.21 23 51 51 4003.2 26.25 179.72

DIFFERENTIAL CORRECTIONS

TDE -.7654 TRA-1.9238 TC3 -.1272 BAU .3621
 RDE -1.0496 RRA .4788 RC3 -.0180 FAU .01247
 FDE .3936 FRA .7470 FC3 -.0512 BSP 2494
 BDE 1.2991 BRA 1.9825 BC3 .1285 FSP -70

MID-COURSE EXECUTION ACCURACY

SGT 909.9 SGR 459.9 SG3 32.0
 RRT -.0119 RRF .0085 RTF -.6689
 SGB 1019.5 R23 .0022 R13 .6689
 SG1 910.0 SG2 459.8 THA 179.54

ORBIT DETERMINATION ACCURACY

ST 381.3 SR 418.2 SS 370.3
 CRT .7003 CRS .7865 CST .9902
 LSA 633.6 MSA 236.2 SSA 14.3
 EL1 522.3 EL2 217.9 ALF 48.76

LAUNCH DATE DEC 13 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 152.300

RL 147.26 LAL -1.00 LOL 81.05 VL 19.362 GAL 19.82 AZL 86.40 MCA 51.72 SMA 92.97 ECC .64563 INC 3.6002 V1 30.254
 RP 107.48 LAP 2.83 LOP 132.72 VP 32.281 GAP -39.36 AZP 87.77 TAL 168.14 TAP 219.86 RCA 32.94 APO 152.99 V2 35.259
 RC 69.241 GL 4.73 GP .38 ZAL 60.92 ZAP 26.70 ETS 180.35 ZAE 138.57 ETE 190.08 ZAC 74.48 ETC 164.92 CLP 26.70

PLANETOCENTRIC CONIC

C3 192.602 VHL 13.878 CLA 12.29 RAL 16.87 RAD 6571.0 VEL 17.718 PTH 2.98 VHP 22.927 DPA -10.79 RAP 342.17 ECC 4.1697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 26 3118.89 -27.06 105.00 281.61 81.31 6 18 25 2518.9 -27.98 96.46
 90.00 20 34 41 4979.77 22.31 218.26 270.32 72.10 21 57 41 4379.8 19.66 210.59
 100.00 6 54 4 2836.26 -28.76 84.51 281.90 81.48 7 41 20 2236.3 -29.64 75.81
 100.00 21 49 44 4737.63 23.95 199.87 269.74 71.56 23 8 42 4137.6 21.21 192.15
 110.00 8 16 31 2578.28 -33.33 65.69 282.68 81.91 8 59 29 1978.3 -34.08 56.53
 110.00 22 43 47 4568.38 28.31 185.34 268.05 69.99 23 59 55 3968.4 25.32 177.44

DIFFERENTIAL CORRECTIONS

TDE -.7678 TRA-1.9346 TC3 -.1345 BAU .3501
 RDE -1.0123 RRA .4558 RC3 -.0201 FAU .01263
 FDE .4089 FRA .7733 FC3 -.0568 BSP 2628
 BDE 1.2706 BRA 1.9876 BC3 .1360 FSP -76

MID-COURSE EXECUTION ACCURACY

SGT 952.9 SGR 463.5 SG3 34.6
 RRT -.0094 RRF .0063 RTF -.6867
 SGB 1059.6 R23 .0022 R13 .6867
 SG1 952.9 SG2 463.5 THA 179.66

ORBIT DETERMINATION ACCURACY

ST 400.9 SR 421.9 SS 386.8
 CRT .6995 CRS .7876 CST .9899
 LSA 655.6 MSA 241.7 SSA 14.5
 EL1 536.7 EL2 225.2 ALF 47.09

LAUNCH DATE DEC 13 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 158.355

RL 147.26 LAL -0.00 LOL 81.05 VL 19.959 GAL 18.95 AZL 86.42 MCA 54.97 SMA 94.52 ECC .61964 INC 3.5760 V1 30.254
 RP 107.48 LAP -2.93 LOP 135.97 VP 32.643 GAP -37.59 AZP 87.95 TAL 167.34 TAP 222.31 RCA 35.95 APO 153.09 V2 35.258
 RC 67.184 GL 5.09 GP .39 ZAL 59.85 ZAP 25.23 ETS 180.53 ZAE 139.11 ETE 190.68 ZAC 76.19 ETC 165.14 CLP 25.23

PLANETOCENTRIC CONIC

C3 176.036 VHL 13.268 DLA 13.04 RAL 17.76 RAD 6570.9 VEL 17.244 PTH 2.94 VHP 22.037 DPA -10.11 RAP 343.84 ECC 3.8971
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 23 33 3129.85 -26.94 105.78 281.71 80.93 6 15 43 2529.9 -27.92 97.25
 90.00 20 44 38 4939.65 21.45 215.63 270.02 71.06 22 6 58 4339.7 18.67 208.07
 100.00 6 51 40 2845.69 -28.66 85.19 282.02 81.13 7 39 5 2245.7 -29.59 76.51
 100.00 21 59 12 4699.05 23.10 197.32 269.40 70.48 23 17 31 4099.0 20.22 189.71
 110.00 8 15 9 2584.47 -33.27 66.17 282.83 81.63 8 58 13 1984.5 -34.06 57.02
 110.00 22 52 13 4533.03 27.46 182.94 267.61 68.79 24 7 46 3933.0 24.33 175.17

DIFFERENTIAL CORRECTIONS

TDE -.7684 TRA-1.9425 TC3 -.1412 BAU .3365
 RDE -.9751 RRA .4329 RC3 -.0224 FAU .01282
 FDE .4245 FRA .7999 FC3 -.0630 BSP 2820
 BOE 1.2415 BRA 1.9902 BC3 .1430 FSP -84

MID-COURSE EXECUTION ACCURACY

SGT 996.0 SGR 466.5 SG3 37.4
 RRT -.0070 RRF .0038 RTF -.7040
 SGB 1099.8 R23 .0025 R13 .7040
 SG1 996.0 SG2 466.5 THA 179.76

ORBIT DETERMINATION ACCURACY

ST 420.7 SR 425.0 SS 403.7
 CRT .6985 CRS .7887 CST .9895
 LSA 677.8 MSA 246.8 SSA 14.6
 EL1 551.1 EL2 232.2 ALF 45.42

LAUNCH DATE DEC 13 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 164.495

RL 147.26 LAL -0.00 LOL 81.05 VL 20.519 GAL 18.12 AZL 86.45 MCA 58.22 SMA 96.07 ECC .59429 INC 3.5536 V1 30.254
 RP 107.48 LAP -3.02 LOP 139.22 VP 32.986 GAP -35.91 AZP 88.13 TAL 166.56 TAP 224.78 RCA 38.98 APO 153.17 V2 35.257
 RC 65.159 GL 5.47 GP .41 ZAL 58.84 ZAP 23.78 ETS 180.73 ZAE 139.76 ETE 191.32 ZAC 77.93 ETC 165.34 CLP 23.78

PLANETOCENTRIC CONIC

C3 160.957 VHL 12.687 DLA 13.78 RAL 18.59 RAD 6570.7 VEL 16.801 PTH 2.90 VHP 21.177 DPA -9.42 RAP 345.52 ECC 3.6489
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 20 26 3140.14 -26.83 106.52 281.70 80.58 6 12 46 2540.1 -27.86 98.00
 90.00 20 54 24 4898.90 20.53 213.00 269.67 70.05 22 16 3 4298.9 17.62 205.53
 100.00 6 49 2 2854.39 -28.57 85.82 282.03 80.81 7 36 36 2254.4 -29.54 77.15
 100.00 22 8 29 4659.88 22.18 194.77 269.02 69.43 23 26 9 4059.9 19.18 187.26
 110.00 8 13 34 2589.87 -33.21 66.58 282.87 81.40 8 56 44 1989.9 -34.04 57.44
 110.00 23 0 26 4497.17 26.55 180.54 267.13 67.64 24 15 23 3897.2 23.29 172.91

DIFFERENTIAL CORRECTIONS

TDE -.7718 TRA-1.9521 TC3 -.1484 BAU .3238
 RDE -.9381 RRA .4100 RC3 -.0248 FAU .01302
 FDE .4410 FRA .8273 FC3 -.0700 BSP 2956
 BOE 1.2147 BRA 1.9947 BC3 .1505 FSP -92

MID-COURSE EXECUTION ACCURACY

SGT 1042.7 SGR 468.8 SG3 40.5
 RRT -.0034 RRF .0007 RTF -.7204
 SGB 1143.2 R23 .0024 R13 .7204
 SG1 1042.7 SG2 468.8 THA 179.89

ORBIT DETERMINATION ACCURACY

ST 442.4 SR 427.5 SS 421.2
 CRT .6984 CRS .7900 CST .9893
 LSA 701.8 MSA 251.4 SSA 14.8
 EL1 567.0 EL2 238.7 ALF 43.59

LAUNCH DATE DEC 13 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 170.714

RL 147.26 LAL -0.00 LOL 81.05 VL 21.044 GAL 17.33 AZL 86.47 MCA 61.46 SMA 97.61 ECC .56961 INC 3.5327 V1 30.254
 RP 107.49 LAP -3.10 LOP 142.47 VP 33.313 GAP -34.29 AZP 88.31 TAL 165.80 TAP 227.27 RCA 42.01 APO 153.22 V2 35.254
 RC 63.173 GL 5.86 GP .42 ZAL 57.89 ZAP 22.35 ETS 180.94 ZAE 140.52 ETE 192.01 ZAC 79.68 ETC 165.52 CLP 22.34

PLANETOCENTRIC CONIC

C3 147.220 VHL 12.133 DLA 14.50 RAL 19.37 RAD 6570.6 VEL 16.387 PTH 2.86 VHP 20.345 DPA -8.71 RAP 347.21 ECC 3.4229
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 17 3 3149.78 -26.72 107.20 281.58 80.26 6 9 33 2549.8 -27.79 98.70
 90.00 21 4 1 4857.48 19.54 210.36 269.27 69.09 22 24 58 4257.5 16.52 202.99
 100.00 6 46 10 2862.40 -28.48 86.40 281.92 80.52 7 33 52 2262.4 -29.50 77.74
 100.00 22 17 35 4620.10 21.21 192.22 268.58 68.43 23 34 35 4020.1 18.09 184.81
 110.00 8 11 47 2594.50 -33.16 66.93 282.80 81.19 8 55 2 1994.5 -34.02 57.80
 110.00 23 8 27 4460.77 25.59 178.16 266.60 66.52 24 22 48 3860.8 22.19 170.65

DIFFERENTIAL CORRECTIONS

TDE -.7732 TRA-1.9584 TC3 -.1548 BAU .3095
 RDE -.9012 RRA .3872 RC3 -.0274 FAU .01326
 FDE .4579 FRA .8551 FC3 -.0780 BSP 3149
 BOE 1.1875 BRA 1.9963 BC3 .1572 FSP -102

MID-COURSE EXECUTION ACCURACY

SGT 1089.5 SGR 470.3 SG3 43.8
 RRT -.0000 RRF -.0027 RTF -.7363
 SGB 1186.7 R23 .0027 R13 .7363
 SG1 1089.5 SG2 470.3 THA 180.00

ORBIT DETERMINATION ACCURACY

ST 464.3 SR 429.3 SS 439.2
 CRT .6982 CRS .7915 CST .9890
 LSA 726.2 MSA 255.5 SSA 15.0
 EL1 583.1 EL2 244.7 ALF 41.80

LAUNCH DATE DEC 13 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 177.005

RL 147.26 LAL -0.00 LOL 81.05 VL 21.535 GAL 16.57 AZL 86.49 MCA 64.71 SMA 99.14 ECC .54568 INC 3.5131 V1 30.254
 RP 107.50 LAP -3.18 LOP 145.72 VP 33.622 GAP -32.76 AZP 88.50 TAL 165.07 TAP 229.78 RCA 45.04 APO 153.24 V2 35.251
 RC 61.231 GL 6.26 GP .44 ZAL 57.00 ZAP 20.92 ETS 181.17 ZAE 141.39 ETE 192.75 ZAC 81.44 ETC 165.70 CLP 20.92

PLANETOCENTRIC CONIC

C3 134.700 VHL 11.606 DLA 15.22 RAL 20.10 RAD 6570.4 VEL 16.001 PTH 2.82 VHP 19.539 DPA -7.98 RAP 348.90 ECC 3.2168
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 25 3158.86 -26.61 107.84 281.35 79.95 6 6 3 2558.9 -27.73 99.36
 90.00 21 13 28 4815.37 18.50 207.72 268.82 68.17 22 33 44 4215.4 15.37 200.43
 100.00 6 43 3 2869.78 -28.40 86.93 281.70 80.25 7 30 53 2269.8 -29.45 78.29
 100.00 22 26 31 4579.68 20.18 189.66 268.09 67.46 23 42 51 3979.7 16.95 182.36
 110.00 8 9 47 2598.41 -33.12 67.23 282.61 81.02 8 53 5 1998.4 -34.01 58.10
 110.00 23 16 17 4423.82 24.56 175.77 266.02 65.45 24 30 0 3823.8 21.04 168.40

DIFFERENTIAL CORRECTIONS

TDE -.7748 TRA-1.9633 TC3 -.1608 BAU .2947
 RDE -.8647 RRA .3647 RC3 -.0303 FAU .01353
 FDE .4755 FRA .8836 FC3 -.0870 BSP 3355
 BOE 1.1610 BRA 1.9969 BC3 .1636 FSP -112

MID-COURSE EXECUTION ACCURACY

SGT 1137.8 SGR 471.1 SG3 47.3
 RRT .0039 RRF -.0065 RTF -.7515
 SGB 1231.5 R23 -.0030 R13 -.7515
 SG1 1137.9 SG2 471.1 THA .11

ORBIT DETERMINATION ACCURACY

ST 487.1 SR 430.5 SS 457.8
 CRT .6983 CRS .7932 CST .9887
 LSA 751.6 MSA 259.1 SSA 15.1
 EL1 600.0 EL2 250.2 ALF 39.98

LAUNCH DATE DEC 13 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 183.365

RL 147.26 LAL -0.00 LOL 81.05 VL 21.995 GAL 15.83 AZL 86.51 MCA 67.96 SMA 100.65 ECC .52251 INC 3.4944 V1 30.254
 RP 107.51 LAP 3.24 LOP 148.98 VP 33.915 GAP -31.28 AZP 88.69 LAL 164.35 TAP 232.31 RCA 48.06 APO 153.23 V2 35.248
 RC 59.338 GL 6.67 GP .46 ZAL 56.16 ZAP 19.51 ETS 181.42 ZAE 142.39 ETE 193.56 ZAC 83.21 ETC 165.85 CLP 19.50

PLANETOCENTRIC CONIC

C3 123.286 VHL 11.103 DLA 15.93 RAL 20.78 RAD 6570.3 VEL 15.640 PTH 2.78 VHP 18.760 DPA -7.24 RAP 350.59 ECC 3.0290
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 9 29 3167.44 -26.51 108.45 281.01 79.66 6 2 16 2567.4 -27.67 99.98
 90.00 21 22 47 4772.54 17.39 205.06 268.32 67.30 22 42 20 4172.5 14.17 197.87
 100.00 6 39 40 2876.59 -28.32 87.42 281.38 80.01 7 27 37 2276.6 -29.41 78.79
 100.00 22 35 17 4538.61 19.08 187.10 267.56 66.55 23 50 56 3938.6 15.75 179.90
 110.00 8 7 33 2601.65 -33.09 67.48 282.31 80.88 8 50 54 2001.6 -33.99 58.35
 110.00 23 23 54 4386.32 23.48 173.40 265.40 64.41 24 37 0 3786.3 19.84 166.15

DIFFERENTIAL CORRECTIONS

TDE -.7795 TRA-1.9697 TC3 -.1673 BAU .2811
 RDE -.8285 RRA .3424 RC3 -.0332 FAU .01382
 FDE .4945 FRA .9132 FC3 -.0971 BSP 3498
 BDE 1.1375 BRA 1.9992 BC3 .1705 FSP -122

MID-COURSE EXECUTION ACCURACY

SGT 1190.4 SGR 471.2 SG3 51.2
 RRT .0092 RRF -.0111 RTF -.7657
 SGB 1280.2 R23 -.0028 R13 -.7657
 SGI 1190.4 SG2 471.1 THA .25

ORBIT DETERMINATION ACCURACY

ST 512.3 SR 431.1 SS 477.4
 CRT .6996 CRS .7952 CST .9886
 LSA 779.3 MSA 261.9 SSA 15.3
 EL1 619.1 EL2 254.9 ALF 38.03

LAUNCH DATE DEC 13 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 189.786

RL 147.26 LAL -0.00 LOL 81.05 VL 22.426 GAL 15.13 AZL 86.52 MCA 71.20 SMA 102.13 ECC .50014 INC 3.4767 V1 30.254
 RP 107.52 LAP 3.29 LOP 152.23 VP 34.191 GAP -29.87 AZP 88.88 LAL 163.67 TAP 234.87 RCA 51.05 APO 153.21 V2 35.243
 RC 57.501 GL 7.10 GP .48 ZAL 55.38 ZAP 18.11 ETS 181.69 ZAE 143.51 ETE 194.44 ZAC 84.99 ETC 166.00 CLP 18.10

PLANETOCENTRIC CONIC

C3 112.877 VHL 10.624 DLA 16.64 RAL 21.40 RAD 6570.1 VEL 15.304 PTH 2.74 VHP 18.006 DPA -6.50 RAP 352.29 ECC 2.8577
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 15 3175.59 -26.41 109.03 280.56 79.39 5 58 11 2575.6 -27.61 100.56
 90.00 21 31 59 4728.96 16.23 202.39 267.77 66.47 22 50 48 4129.0 12.91 195.29
 100.00 6 36 1 2882.90 -28.24 87.88 280.94 79.78 7 24 4 2282.9 -29.37 79.25
 100.00 22 43 54 4496.88 17.93 184.54 266.98 65.68 23 58 51 3896.9 14.50 177.43
 110.00 8 5 4 2604.26 -33.06 67.67 281.90 80.76 8 48 28 2004.3 -33.98 58.56
 110.00 23 31 20 4348.29 22.34 171.03 264.74 63.43 24 43 49 3748.3 18.60 163.90

DIFFERENTIAL CORRECTIONS

TDE -.7820 TRA-1.9720 TC3 -.1723 BAU .2658
 RDE -.7927 RRA .3205 RC3 -.0364 FAU .01416
 FDE .5141 FRA .9434 FC3 -.1086 BSP 3706
 BDE 1.1135 BRA 1.9979 BC3 .1761 FSP -134

MID-COURSE EXECUTION ACCURACY

SGT 1242.6 SGR 470.4 SG3 55.5
 RRT .0144 RRF -.0162 RTF -.7795
 SGB 1328.6 R23 -.0031 R13 -.7795
 SGI 1242.6 SG2 470.4 THA .36

ORBIT DETERMINATION ACCURACY

ST 537.5 SR 430.9 SS 497.6
 CRT .7008 CRS .7973 CST .9884
 LSA 807.5 MSA 264.2 SSA 15.4
 EL1 638.4 EL2 258.8 ALF 36.18

LAUNCH DATE DEC 13 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 196.262

RL 147.26 LAL -0.00 LOL 81.05 VL 22.830 GAL 14.46 AZL 86.54 MCA 74.45 SMA 103.58 ECC .47859 INC 3.4596 V1 30.254
 RP 107.54 LAP 3.33 LOP 155.48 VP 34.452 GAP -28.52 AZP 89.07 LAL 163.01 TAP 237.46 RCA 54.01 APO 153.16 V2 35.238
 RC 55.726 GL 7.54 GP .50 ZAL 54.66 ZAP 16.71 ETS 182.01 ZAE 144.77 ETE 195.42 ZAC 86.78 ETC 166.12 CLP 16.71

PLANETOCENTRIC CONIC

C3 103.384 VHL 10.168 DLA 17.33 RAL 21.97 RAD 6570.0 VEL 14.991 PTH 2.70 VHP 17.276 DPA -5.74 RAP 353.98 ECC 2.7014
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 0 42 3183.40 -26.31 109.58 280.00 79.13 5 53 46 2583.4 -27.54 101.13
 90.00 21 41 4 4684.63 15.00 199.71 267.18 65.70 22 59 8 4084.6 11.60 192.69
 100.00 6 32 4 2888.77 -28.17 88.30 280.40 79.57 7 20 13 2288.8 -29.32 79.68
 100.00 22 52 23 4454.49 16.72 181.97 266.36 64.86 24 6 38 3854.5 13.20 174.95
 110.00 8 2 21 2606.30 -33.04 67.83 281.38 80.68 8 45 47 2006.3 -33.97 58.72
 110.00 23 38 36 4309.73 21.15 168.68 264.04 62.50 24 50 25 3709.7 17.30 161.67

DIFFERENTIAL CORRECTIONS

TDE -.7850 TRA-1.9730 TC3 -.1767 BAU .2503
 RDE -.7574 RRA .2990 RC3 -.0398 FAU .01454
 FDE .5350 FRA .9746 FC3 -.1217 BSP 3913
 BDE 1.0909 BRA 1.9955 BC3 .1811 FSP -147

MID-COURSE EXECUTION ACCURACY

SGT 1296.6 SGR 468.9 SG3 60.1
 RRT .0203 RRF -.0218 RTF -.7927
 SGB 1378.8 R23 -.0033 R13 -.7927
 SGI 1296.7 SG2 468.8 THA .48

ORBIT DETERMINATION ACCURACY

ST 563.8 SR 430.1 SS 518.6
 CRT .7024 CRS .7997 CST .9882
 LSA 837.2 MSA 265.9 SSA 15.5
 EL1 659.0 EL2 261.9 ALF 34.34

LAUNCH DATE DEC 13 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 202.790

RL 147.26 LAL -0.00 LOL 81.05 VL 23.208 GAL 13.81 AZL 86.56 MCA 77.69 SMA 105.01 ECC .45787 INC 3.4431 V1 30.254
 RP 107.56 LAP 3.36 LOP 158.72 VP 34.698 GAP -27.22 AZP 89.27 LAL 162.39 TAP 240.08 RCA 56.93 APO 153.09 V2 35.232
 RC 54.021 GL 7.99 GP .52 ZAL 54.00 ZAP 15.32 ETS 182.36 ZAE 146.16 ETE 196.50 ZAC 88.57 ETC 166.24 CLP 15.32

PLANETOCENTRIC CONIC

C3 94.726 VHL 9.733 DLA 18.02 RAL 22.48 RAD 6569.8 VEL 14.699 PTH 2.66 VHP 16.569 DPA -4.97 RAP 355.68 ECC 2.5589
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 49 3190.98 -26.21 110.11 279.34 78.88 5 49 0 2591.0 -27.48 101.67
 90.00 21 50 3 4639.53 13.72 197.02 266.56 64.99 23 7 23 4039.5 10.24 190.07
 100.00 6 27 49 2894.30 -28.10 88.69 279.75 79.37 7 16 3 2294.3 -29.28 80.09
 100.00 23 0 44 4411.45 15.46 179.40 265.70 64.09 24 14 16 3811.4 11.85 172.47
 110.00 7 59 23 2607.85 -33.02 67.95 280.76 80.61 8 42 50 2007.8 -33.96 58.84
 110.00 23 45 40 4270.67 19.90 166.33 263.31 61.62 24 56 51 3670.7 15.96 159.43

DIFFERENTIAL CORRECTIONS

TDE -.7883 TRA-1.9721 TC3 -.1801 BAU .2346
 RDE -.7227 RRA .2778 RC3 -.0433 FAU .01496
 FDE .5571 FRA 1.0070 FC3 -.1367 BSP 4131
 BDE 1.0694 BRA 1.9916 BC3 .1852 FSP -161

MID-COURSE EXECUTION ACCURACY

SGT 1352.3 SGR 466.6 SG3 65.1
 RRT .0269 RRF -.0282 RTF -.8052
 SGB 1430.5 R23 -.0036 R13 -.8052
 SGI 1352.3 SG2 466.4 THA .60

ORBIT DETERMINATION ACCURACY

ST 591.3 SR 428.6 SS 540.6
 CRT .7047 CRS .8024 CST .9880
 LSA 868.4 MSA 266.8 SSA 15.7
 EL1 680.8 EL2 264.1 ALF 32.54

LAUNCH DATE DEC 13 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 209.362

RL 147.26 LAL -0.00 LOL 81.05 VL 23.561 GAL 13.19 AZL 86.57 MCA 80.93 SMA 106.40 ECC .43798 INC 3.4269 VI 30.254
 RP 107.58 LAP 3.38 LOP 161.97 VP 34.929 GAP -25.97 AZP 89.46 TAL 161.80 TAP 242.73 RCA 59.80 APO 153.01 V2 35.226
 RC 52.393 GL 8.46 GP .55 ZAL 53.40 ZAP 13.94 ETS 182.78 ZAE 147.69 ETE 197.72 ZAC 90.36 ETC 166.33 CLP 13.93

PLANETOCENTRIC CONIC

C3 86.831 VHL 9.318 DLA 18.69 RAL 22.94 RAD 6569.7 VEL 14.428 PTH 2.62 VHP 15.884 OPA -4.19 RAP 357.37 ECC 2.4290
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 34 3198.43 -26.11 110.63 278.58 78.64 5 43 53 2598.4 -27.42 102.21
 90.00 21 58 57 4593.67 12.38 194.31 265.89 64.33 23 15 31 3993.7 8.83 187.44
 100.00 6 23 15 2899.58 -28.04 89.07 279.01 79.18 7 11 35 2299.6 -29.24 80.48
 100.00 23 8 58 4367.75 14.15 176.82 265.00 63.39 24 21 46 3767.8 10.46 169.97
 110.00 7 56 8 2608.96 -33.01 68.03 280.04 80.56 8 39 37 2009.0 -33.96 58.92
 110.00 23 52 34 4231.13 18.61 164.00 262.54 60.79 25 3 5 3631.1 14.57 157.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7919 TRA-1.9693 TC3 -.1824 BAU .2186
 RDE -.6886 RRA .2572 RC3 -.0469 FAU .01543
 FDE .5808 FRA 1.0406 FC3 -.1539 BSP 4355
 BOE 1.0494 BRA 1.9860 BC3 .1883 FSP -177

SGT 1409.5 SGR 463.4 SG3 70.5
 RRT .0344 RRF -.0354 RTF -.8171
 SGB 1483.7 R23 -.0039 R13 -.8171
 SG1 1409.6 SG2 463.1 THA .73

ST 619.9 SR 426.4 SS 563.7
 CRT .7075 CRS .8055 CST .9879
 LSA 901.2 MSA 267.0 SSA 15.8
 EL1 704.0 EL2 265.3 ALF 30.78

LAUNCH DATE DEC 13 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 215.976

RL 147.26 LAL -0.00 LOL 81.05 VL 23.892 GAL 12.59 AZL 86.59 MCA 84.18 SMA 107.76 ECC .41893 INC 3.4111 VI 30.254
 RP 107.60 LAP 3.39 LOP 165.22 VP 35.146 GAP -24.77 AZP 89.65 TAL 161.24 TAP 245.42 RCA 62.62 APO 152.90 V2 35.219
 RC 50.852 GL 8.94 GP .58 ZAL 52.86 ZAP 12.56 ETS 183.27 ZAE 149.36 ETE 199.09 ZAC 92.15 ETC 166.41 CLP 12.54

PLANETOCENTRIC CONIC

C3 79.633 VHL 8.924 DLA 19.36 RAL 23.35 RAD 6569.6 VEL 14.177 PTH 2.58 VHP 15.221 OPA -3.41 RAP 359.06 ECC 2.3106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 44 57 3205.88 -26.01 111.16 277.72 78.39 5 38 23 2605.9 -27.35 102.74
 90.00 22 7 48 4547.02 10.99 191.59 265.19 63.74 23 23 35 3947.0 7.38 184.78
 100.00 6 18 21 2904.70 -27.97 89.44 278.16 79.00 7 6 46 2304.7 -29.20 80.85
 100.00 23 17 5 4323.44 12.78 174.24 264.27 62.75 24 29 9 3723.4 9.03 167.46
 110.00 7 52 38 2609.73 -33.00 68.09 279.22 80.53 8 36 7 2009.7 -33.95 58.98
 110.00 0 3 14 4191.17 17.26 161.68 261.74 60.03 1 13 5 3591.2 13.15 154.98

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7985 TRA-1.9671 TC3 -.1846 BAU .2038
 RDE -.6552 RRA .2370 RC3 -.0507 FAU .01594
 FDE .6067 FRA 1.0760 FC3 -.1733 BSP 4518
 BOE 1.0329 BRA 1.9814 BC3 .1914 FSP -194

SGT 1470.9 SGR 459.5 SG3 76.5
 RRT .0437 RRF -.0438 RTF -.8280
 SGB 1541.0 R23 -.0037 R13 -.8281
 SG1 1471.1 SG2 459.1 THA .87

ST 651.3 SR 423.5 SS 588.2
 CRT .7116 CRS .8089 CST .9880
 LSA 937.2 MSA 266.3 SSA 15.9
 EL1 730.2 EL2 265.4 ALF 29.02

LAUNCH DATE DEC 13 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 222.624

RL 147.26 LAL -0.00 LOL 81.05 VL 24.202 GAL 12.01 AZL 86.60 MCA 87.42 SMA 109.08 ECC .40072 INC 3.3954 VI 30.254
 RP 107.62 LAP 3.39 LOP 168.47 VP 35.349 GAP -23.61 AZP 89.85 TAL 160.72 TAP 248.13 RCA 65.37 APO 152.79 V2 35.211
 RC 49.405 GL 9.44 GP .61 ZAL 52.37 ZAP 11.17 ETS 183.87 ZAE 151.17 ETE 200.67 ZAC 93.94 ETC 166.47 CLP 11.16

PLANETOCENTRIC CONIC

C3 73.071 VHL 8.548 DLA 20.03 RAL 23.69 RAD 6569.4 VEL 13.944 PTH 2.54 VHP 14.579 OPA -2.62 RAP .74 ECC 2.2026
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 55 3213.45 -25.91 111.68 276.78 78.15 5 32 29 2613.5 -27.28 103.29
 90.00 22 16 36 4499.60 9.55 188.86 264.47 63.22 23 31 36 3899.6 5.88 182.10
 100.00 6 13 6 2909.77 -27.90 89.80 277.23 78.82 7 1 36 2309.8 -29.16 81.22
 100.00 23 25 7 4278.52 11.36 171.65 263.51 62.17 24 36 25 3678.5 7.55 164.94
 110.00 7 48 51 2610.22 -32.99 68.13 278.31 80.50 8 32 21 2010.2 -33.95 59.02
 110.00 0 9 47 4150.83 15.88 159.37 260.91 59.32 1 18 58 3550.8 11.69 152.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8035 TRA-1.9611 TC3 -.1844 BAU .1879
 RDE -.6226 RRA .2174 RC3 -.0545 FAU .01651
 FDE .6342 FRA 1.1128 FC3 -.1956 BSP 4740
 BOE 1.0165 BRA 1.9731 BC3 .1923 FSP -212

SGT 1531.9 SGR 454.8 SG3 83.0
 RRT .0533 RRF -.0529 RTF -.8387
 SGB 1598.0 R23 -.0039 R13 -.8387
 SG1 1532.1 SG2 454.1 THA .99

ST 682.8 SR 419.9 SS 613.9
 CRT .7158 CRS .8125 CST .9880
 LSA 974.2 MSA 264.9 SSA 16.0
 EL1 756.7 EL2 264.6 ALF 27.38

LAUNCH DATE DEC 13 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 229.304

RL 147.26 LAL -0.00 LOL 81.05 VL 24.491 GAL 11.46 AZL 86.62 MCA 90.65 SMA 110.35 ECC .38333 INC 3.3798 VI 30.254
 RP 107.65 LAP 3.38 LOP 171.71 VP 35.539 GAP -22.50 AZP 90.04 TAL 160.23 TAP 250.89 RCA 68.05 APO 152.66 V2 35.202
 RC 48.064 GL 9.95 GP .65 ZAL 51.95 ZAP 9.79 ETS 184.63 ZAE 153.12 ETE 202.52 ZAC 95.73 ETC 166.52 CLP 9.77

PLANETOCENTRIC CONIC

C3 67.092 VHL 8.191 DLA 20.68 RAL 23.99 RAD 6569.3 VEL 13.728 PTH 2.51 VHP 13.957 OPA -1.82 RAP 2.41 ECC 2.1042
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 28 3221.29 -25.80 112.23 275.74 77.90 5 26 9 2621.3 -27.21 103.85
 90.00 22 25 24 4451.41 8.06 186.10 263.71 62.76 23 39 35 3851.4 4.35 179.39
 100.00 6 7 29 2914.90 -27.84 90.17 276.21 78.64 6 56 4 2314.9 -29.12 81.60
 100.00 23 33 4 4233.02 9.91 169.06 262.73 61.65 24 43 37 3633.0 6.04 162.41
 110.00 7 44 47 2610.51 -32.99 68.15 277.31 80.49 8 28 17 2010.5 -33.95 59.04
 110.00 0 16 11 4110.18 14.45 157.09 260.06 58.68 1 24 41 3510.2 10.20 150.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8082 TRA-1.9524 TC3 -.1821 BAU .1715
 RDE -.5908 RRA .1983 RC3 -.0584 FAU .01716
 FDE .6638 FRA 1.1513 FC3 -.2214 BSP 4974
 BOE 1.0011 BRA 1.9625 BC3 .1912 FSP -233

SGT 1593.6 SGR 449.4 SG3 90.1
 RRT .0638 RRF -.0631 RTF -.8487
 SGB 1655.8 R23 -.0043 R13 -.8488
 SG1 1593.9 SG2 448.4 THA 1.12

ST 715.2 SR 415.7 SS 640.8
 CRT .7205 CRS .8166 CST .9880
 LSA 1012.7 MSA 262.9 SSA 16.1
 EL1 784.3 EL2 262.8 ALF 25.83

LAUNCH DATE DEC 13 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 236.009

RL 147.26 LAL -0.00 LOL 81.05 VL 24.761 GAL 10.94 AZL 86.64 HCA 93.89 SMA 111.59 ECC .36677 INC 3.3642 V1 30.254
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.717 GAP -21.43 AZP 90.23 TAL 159.79 TAP 253.68 RCA 70.66 APO 152.52 V2 35.194
 RC 46.839 GL 10.47 GP .69 ZAL 51.58 ZAP 8.40 ETS 185.63 ZAE 155.19 ETE 204.70 ZAC 97.50 ETC 166.54 CLP 8.37

PLANETOCENTRIC CONIC

C3 61.646 VHL 7.851 DLA 21.33 RAL 24.22 RAD 6569.2 VEL 13.528 PTH 2.47 VHP 13.356 DPA -1.03 RAP 4.07 ECC 2.0145
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 33 3229.54 -25.68 112.81 274.61 77.63 5 19 23 2629.5 -27.13 104.44
 90.00 22 34 11 4402.43 6.53 183.32 262.93 62.38 23 47 33 3802.4 2.78 176.65
 100.00 6 1 29 2920.22 -27.76 90.55 275.11 78.45 6 50 9 2320.2 -29.07 81.99
 100.00 23 40 56 4186.99 8.41 166.47 261.91 61.21 24 50 43 3587.0 4.50 159.86
 110.00 7 40 25 2610.69 -32.99 68.16 276.23 80.48 8 23 56 2010.7 -33.95 59.06
 110.00 0 22 26 4069.28 12.99 154.82 259.18 58.10 1 30 15 3469.3 8.68 148.37

DIFFERENTIAL CORRECTIONS

TOE -.8141 TRA-1.9423 TC3 -.1780 BAU .1554
 RDE -.5599 RRA .1798 RC3 -.0622 FAU .01787
 FDE .6961 FRA 1.1920 FC3 -.2510 BSP 5200
 BOE .9880 BRA 1.9506 BC3 .1886 FSP -256

MID-COURSE EXECUTION ACCURACY

SGT 1657.2 SGR 443.1 SG3 98.0
 RRT .0758 RRF -.0746 RTF -.8583
 SGB 1715.4 R23 -.0045 R13 -.8583
 SG1 1657.6 SG2 441.7 THA 1.25

ORBIT DETERMINATION ACCURACY

ST 749.2 SR 410.8 SS 669.5
 CRT .7261 CRS .8210 CST .9881
 LSA 1053.8 MSA 260.0 SSA 16.1
 EL1 813.9 EL2 260.0 ALF 24.35

LAUNCH DATE DEC 13 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 242.736

RL 147.26 LAL -0.00 LOL 81.05 VL 25.013 GAL 10.43 AZL 86.65 HCA 97.13 SMA 112.78 ECC .35101 INC 3.3485 V1 30.254
 RP 107.71 LAP 3.32 LOP 178.19 VP 35.883 GAP -20.39 AZP 90.42 TAL 159.38 TAP 256.50 RCA 73.19 APO 152.37 V2 35.184
 RC 45.742 GL 11.00 GP .73 ZAL 51.27 ZAP 7.01 ETS 187.03 ZAE 157.38 ETE 207.34 ZAC 99.26 ETC 166.55 CLP 6.97

PLANETOCENTRIC CONIC

C3 56.687 VHL 7.529 DLA 21.97 RAL 24.40 RAD 6569.0 VEL 13.343 PTH 2.44 VHP 12.773 DPA -.23 RAP 5.72 ECC 1.9329
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 10 3238.38 -25.55 113.42 273.41 77.35 5 12 8 2638.4 -27.04 105.07
 90.00 22 43 1 4352.67 4.95 180.52 262.13 62.08 23 55 33 3752.7 1.17 173.87
 100.00 5 55 6 2925.82 -27.69 90.94 273.93 78.26 6 43 52 2325.8 -29.03 82.40
 100.00 23 48 46 4140.46 6.87 163.87 261.08 60.84 24 57 46 3540.5 2.93 157.30
 110.00 7 35 47 2610.84 -32.99 68.17 275.08 80.48 8 19 18 2010.8 -33.95 59.07
 110.00 0 28 30 4028.20 11.50 152.56 258.28 57.59 1 35 38 3428.2 7.15 146.18

DIFFERENTIAL CORRECTIONS

TOE -.8203 TRA-1.9299 TC3 -.1716 BAU .1394
 RDE -.5299 RRA .1619 RC3 -.0660 FAU .01866
 FDE .7312 FRA 1.2350 FC3 -.2850 BSP 5433
 BOE .9766 BRA 1.9367 BC3 .1839 FSP -281

MID-COURSE EXECUTION ACCURACY

SGT 1721.8 SGR 436.1 SG3 106.5
 RRT .0892 RRF -.0875 RTF -.8672
 SGB 1776.1 R23 -.0049 R13 -.8673
 SG1 1722.3 SG2 434.2 THA 1.38

ORBIT DETERMINATION ACCURACY

ST 784.5 SR 405.2 SS 699.9
 CRT .7323 CRS .8258 CST .9882
 LSA 1097.0 MSA 256.5 SSA 16.2
 EL1 845.0 EL2 256.2 ALF 22.95

LAUNCH DATE DEC 13 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 249.482

RL 147.26 LAL -0.00 LOL 81.05 VL 25.248 GAL 9.95 AZL 86.67 HCA 100.36 SMA 113.92 ECC .33604 INC 3.3326 V1 30.254
 RP 107.74 LAP 3.28 LOP 181.43 VP 36.038 GAP -19.40 AZP 90.60 TAL 159.01 TAP 259.37 RCA 75.64 APO 152.21 V2 35.174
 RC 44.782 GL 11.55 GP .78 ZAL 51.03 ZAP 5.61 ETS 189.14 ZAE 159.65 ETE 210.60 ZAC 101.01 ETC 166.54 CLP 5.55

PLANETOCENTRIC CONIC

C3 52.174 VHL 7.223 DLA 22.60 RAL 24.53 RAD 6568.9 VEL 13.173 PTH 2.41 VHP 12.210 DPA .56 RAP 7.35 ECC 1.8587
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 16 3247.98 -25.40 114.09 272.14 77.05 5 4 23 2648.0 -26.93 105.75
 90.00 22 51 54 4302.10 3.33 177.68 261.31 61.86 24 3 36 3702.1 -.46 171.05
 100.00 5 48 18 2931.84 -27.60 91.37 272.68 78.05 6 37 10 2331.8 -28.97 82.84
 100.00 0 0 29 4093.47 5.31 161.26 260.22 60.54 1 8 42 3493.5 1.34 154.71
 110.00 7 30 51 2611.03 -32.98 68.19 273.86 80.47 8 14 22 2011.0 -33.95 59.08
 110.00 0 34 25 3987.04 9.99 150.34 257.37 57.14 1 40 52 3387.0 5.59 144.01

DIFFERENTIAL CORRECTIONS

TOE -.8267 TRA-1.9154 TC3 -.1623 BAU .1232
 RDE -.5009 RRA .1447 RC3 -.0697 FAU .01955
 FDE .7693 FRA 1.2805 FC3 -.3243 BSP 5673
 BOE .9666 BRA 1.9208 BC3 .1766 FSP -310

MID-COURSE EXECUTION ACCURACY

SGT 1787.0 SGR 428.3 SG3 116.0
 RRT .1040 RRF -.1018 RTF -.8757
 SGB 1837.6 R23 -.0053 R13 -.8758
 SG1 1787.6 SG2 425.9 THA 1.51

ORBIT DETERMINATION ACCURACY

ST 820.9 SR 399.1 SS 732.1
 CRT .7392 CRS .8309 CST .9884
 LSA 1142.4 MSA 252.3 SSA 16.3
 EL1 877.4 EL2 251.5 ALF 21.63

LAUNCH DATE DEC 13 1968

FLIGHT TIME 108.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 256.241

RL 147.26 LAL -0.00 LOL 81.05 VL 25.468 GAL 9.49 AZL 86.68 HCA 103.59 SMA 115.02 ECC .32185 INC 3.3164 V1 30.254
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.182 GAP -18.44 AZP 90.78 TAL 158.69 TAP 262.28 RCA 78.00 APO 152.04 V2 35.164
 RC 43.971 GL 12.10 GP .83 ZAL 50.84 ZAP 4.21 ETS 192.68 ZAE 161.98 ETE 214.74 ZAC 102.73 ETC 166.50 CLP 4.12

PLANETOCENTRIC CONIC

C3 48.069 VHL 6.933 DLA 23.22 RAL 24.59 RAD 6568.8 VEL 13.017 PTH 2.37 VHP 11.665 DPA 1.36 RAP 8.97 ECC 1.7911
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 1 48 3258.54 -25.24 114.82 270.79 76.72 4 56 7 2658.5 -26.82 106.51
 90.00 23 0 54 4250.69 1.67 174.81 260.48 61.73 24 11 45 3650.7 -2.12 168.18
 100.00 5 41 5 2938.40 -27.51 91.84 271.36 77.82 6 30 4 2338.4 -28.91 83.32
 100.00 0 8 14 4046.06 3.71 158.64 259.35 60.32 1 15 40 3446.1 -.27 152.11
 110.00 7 25 38 2611.33 -32.98 68.21 272.58 80.46 8 9 9 2011.3 -33.95 59.11
 110.00 0 40 11 3945.90 8.46 148.13 256.43 56.76 1 45 57 3345.9 4.03 141.85

DIFFERENTIAL CORRECTIONS

TOE -.8341 TRA-1.8991 TC3 -.1505 BAU .1075
 RDE -.4730 RRA .1280 RC3 -.0731 FAU .02052
 FDE .8114 FRA 1.3292 FC3 -.3696 BSP 5907
 BOE .9588 BRA 1.9034 BC3 .1673 FSP -341

MID-COURSE EXECUTION ACCURACY

SGT 1853.4 SGR 419.9 SG3 126.4
 RRT .1208 RRF -.1181 RTF -.8837
 SGB 1900.4 R23 -.0057 R13 -.8837
 SG1 1854.1 SG2 416.6 THA 1.65

ORBIT DETERMINATION ACCURACY

ST 858.8 SR 392.4 SS 766.5
 CRT .7470 CRS .8366 CST .9887
 LSA 1190.7 MSA 247.3 SSA 16.3
 EL1 911.7 EL2 245.8 ALF 20.39

LAUNCH DATE DEC 13 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 263.010

RL 147.26 LAL -.00 LOL 81.05 VL 25.672 GAL 9.04 AZL 86.70 HCA 106.82 SMA 116.07 ECC .30842 INC 3.2997 V1 30.254
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.315 GAP -17.51 AZP 90.96 TAL 158.40 TAP 265.22 RCA 80.28 APO 151.87 V2 35.153
 RC 43.319 GL 12.66 GP .89 ZAL 50.71 ZAP 2.82 ETS 199.84 ZAE 164.31 ETE 220.12 ZAC 104.44 ETC 166.45 CLP 2.67

PLANETOCENTRIC CONIC

C3 44.337 VHL 6.659 DLA 23.83 RAL 24.61 RAD 6568.7 VEL 12.873 PTH 2.34 VHP 11.137 DPA 2.15 RAP 10.57 ECC 1.7297
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 52 45 3270.28 -25.05 115.63 269.38 76.35 4 47 15 2670.3 -26.68 107.34
 90.00 23 10 4 4198.40 -.01 171.89 259.64 61.68 24 20 2 3598.4 -3.80 165.26
 100.00 5 33 26 2945.62 -27.41 92.35 269.99 77.57 6 22 32 2345.6 -28.84 83.84
 100.00 0 15 59 3998.29 2.10 156.01 258.47 60.17 1 22 38 3398.3 -1.89 149.49
 110.00 7 20 9 2611.80 -32.98 68.25 271.24 80.44 8 3 40 2011.8 -33.94 59.14
 110.00 0 45 47 3904.88 6.93 145.95 255.48 56.44 1 50 52 3304.9 2.47 139.70

DIFFERENTIAL CORRECTIONS

TDE -.8414 TRA-1.8807 TC3 -.1351 BAU .0920
 RDE -.4461 RRA .1119 RC3 -.0762 FAU .02161
 FDE .8574 FRA 1.3813 FC3 -.4220 BSP 6143
 BDE .9523 BRA 1.8840 BC3 .1551 FSP -375

MID-COURSE EXECUTION ACCURACY

SGT 1920.0 SGR 410.8 SG3 137.9
 RRT .1394 RRF -.1362 RTF -.8912
 SGB 1963.4 R23 -.0063 R13 -.8913
 SG1 1920.9 SG2 406.6 THA 1.79

ORBIT DETERMINATION ACCURACY

ST 897.7 SR 385.2 SS 803.1
 CRT .7553 CRS .8425 CST .9889
 LSA 1241.1 MSA 241.9 SSA 16.3
 EL1 947.1 EL2 239.3 ALF 19.23

LAUNCH DATE DEC 13 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 269.786

RL 147.26 LAL -.00 LOL 81.05 VL 25.863 GAL 8.62 AZL 86.72 HCA 110.05 SMA 117.08 ECC .29573 INC 3.2825 V1 30.254
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.439 GAP -16.61 AZP 91.13 TAL 158.16 TAP 268.20 RCA 82.46 APO 151.70 V2 35.141
 RC 42.834 GL 13.23 GP .96 ZAL 50.63 ZAP 1.54 ETS 220.14 ZAE 166.55 ETE 227.33 ZAC 106.12 ETC 166.37 CLP 1.20

PLANETOCENTRIC CONIC

C3 40.946 VHL 6.399 DLA 24.43 RAL 24.57 RAD 6568.6 VEL 12.740 PTH 2.32 VHP 10.627 DPA 2.94 RAP 12.14 ECC 1.6739
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 3 3283.46 -24.84 116.53 267.91 75.95 4 37 46 2683.5 -26.53 108.27
 90.00 23 19 27 4145.11 -1.73 168.92 258.80 61.73 24 28 32 3545.1 -5.50 162.26
 100.00 5 25 21 2953.61 -27.29 92.91 268.56 77.29 6 14 35 2353.6 -28.76 84.42
 100.00 0 23 45 3950.19 .47 153.37 257.58 60.11 1 29 36 3350.2 -3.51 146.85
 110.00 7 14 23 2612.48 -32.97 68.30 269.85 80.41 7 57 56 2012.5 -33.94 59.20
 110.00 0 51 13 3864.08 5.39 143.79 254.52 56.19 1 55 37 3264.1 .91 137.57

DIFFERENTIAL CORRECTIONS

TDE -.8497 TRA-1.8604 TC3 -.1165 BAU .0770
 RDE -.4204 RRA .0964 RC3 -.0789 FAU .02282
 FDE .9083 FRA 1.4373 FC3 -.4825 BSP 6369
 BDE .9480 BRA 1.8629 BC3 .1407 FSP -413

MID-COURSE EXECUTION ACCURACY

SGT 1987.1 SGR 401.1 SG3 150.7
 RRT .1605 RRF -.1569 RTF -.8984
 SGB 2027.1 R23 -.0068 R13 -.8984
 SG1 1988.1 SG2 395.6 THA 1.93

ORBIT DETERMINATION ACCURACY

ST 938.2 SR 377.5 SS 842.3
 CRT .7646 CRS .8490 CST .9893
 LSA 1294.7 MSA 235.7 SSA 16.3
 EL1 984.3 EL2 231.9 ALF 18.14

LAUNCH DATE DEC 13 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 276.565

RL 147.26 LAL -.00 LOL 81.05 VL 26.039 GAL 8.22 AZL 86.74 HCA 113.27 SMA 118.03 ECC .28375 INC 3.2645 V1 30.254
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.554 GAP -15.75 AZP 91.29 TAL 157.96 TAP 271.23 RCA 84.54 APO 151.53 V2 35.129
 RC 42.524 GL 13.80 GP 1.04 ZAL 50.60 ZAP 1.08 ETS 287.50 ZAE 168.58 ETE 237.19 ZAC 107.76 ETC 166.27 CLP -.30

PLANETOCENTRIC CONIC

C3 37.866 VHL 6.154 DLA 25.01 RAL 24.47 RAD 6568.5 VEL 12.619 PTH 2.29 VHP 10.134 DPA 3.72 RAP 13.68 ECC 1.6232
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 38 3298.38 -24.59 117.55 266.38 75.49 4 27 36 2698.4 -26.34 109.33
 90.00 23 29 8 4090.68 -3.48 165.88 257.96 61.88 24 37 18 3490.7 -7.22 159.19
 100.00 5 16 49 2962.48 -27.15 93.54 267.08 76.99 6 6 11 2362.5 -28.67 85.07
 100.00 0 31 33 3901.81 -1.17 150.72 256.68 60.13 1 36 35 3301.8 -5.14 144.18
 110.00 7 8 23 2613.40 -32.96 68.37 268.42 80.37 7 51 57 2013.4 -33.94 59.27
 110.00 0 56 28 3823.65 3.85 141.67 253.55 56.01 2 0 12 3223.7 -.64 135.46

DIFFERENTIAL CORRECTIONS

TDE -.8578 TRA-1.8366 TC3 -.0935 BAU .0626
 RDE -.3958 RRA .0815 RC3 -.0810 FAU .02417
 FDE .9643 FRA 1.4976 FC3 -.5527 BSP 6619
 BDE .9447 BRA 1.8384 BC3 .1237 FSP -455

MID-COURSE EXECUTION ACCURACY

SGT 2052.3 SGR 390.8 SG3 164.8
 RRT .1842 RRF -.1801 RTF -.9051
 SGB 2089.2 R23 -.0075 R13 -.9052
 SG1 2053.6 SG2 383.9 THA 2.08

ORBIT DETERMINATION ACCURACY

ST 979.0 SR 369.4 SS 884.2
 CRT .7746 CRS .8558 CST .9897
 LSA 1350.5 MSA 229.1 SSA 16.3
 EL1 1022.1 EL2 223.7 ALF 17.14

LAUNCH DATE DEC 13 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 283.346

RL 147.26 LAL -.00 LOL 81.05 VL 26.204 GAL 7.84 AZL 86.75 HCA 116.49 SMA 118.94 ECC .27248 INC 3.2457 V1 30.254
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.659 GAP -14.91 AZP 91.45 TAL 157.80 TAP 274.29 RCA 86.53 APO 151.35 V2 35.117
 RC 42.392 GL 14.37 GP 1.13 ZAL 50.63 ZAP 2.15 ETS 329.99 ZAE 170.20 ETE 250.59 ZAC 109.37 ETC 166.15 CLP -1.83

PLANETOCENTRIC CONIC

C3 35.070 VHL 5.922 DLA 25.57 RAL 24.33 RAD 6568.4 VEL 12.508 PTH 2.26 VHP 9.658 DPA 4.50 RAP 15.19 ECC 1.5772
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 24 3315.43 -24.29 118.72 264.80 74.98 4 16 40 2715.4 -26.12 110.52
 90.00 23 39 13 4034.88 -5.27 162.75 257.12 62.14 24 46 27 3434.9 -8.96 156.01
 100.00 5 7 50 2972.34 -27.00 94.23 265.56 76.66 5 57 22 2372.3 -28.57 85.78
 100.00 0 39 25 3853.20 -2.82 148.05 255.77 60.23 1 43 38 3253.2 -6.76 141.48
 110.00 7 2 10 2614.58 -32.94 68.46 266.96 80.31 7 45 45 2014.6 -33.93 59.36
 110.00 1 1 33 3783.72 2.33 139.58 252.56 55.89 2 4 37 3183.7 -2.16 133.38

DIFFERENTIAL CORRECTIONS

TDE -.8658 TRA-1.8138 TC3 -.0676 BAU .0499
 RDE -.3724 RRA .0671 RC3 -.0824 FAU .02568
 FDE 1.0263 FRA 1.5632 FC3 -.6339 BSP 6853
 BDE .9425 BRA 1.8150 BC3 .1065 FSP -502

MID-COURSE EXECUTION ACCURACY

SGT 2119.6 SGR 380.1 SG3 180.4
 RRT .2105 RRF -.2064 RTF -.9113
 SGB 2153.4 R23 -.0087 R13 -.9113
 SG1 2121.2 SG2 371.3 THA 2.23

ORBIT DETERMINATION ACCURACY

ST 1020.9 SR 360.9 SS 929.0
 CRT .7848 CRS .8631 CST .9900
 LSA 1409.2 MSA 222.3 SSA 16.2
 EL1 1061.3 EL2 215.2 ALF 16.19

LAUNCH DATE DEC 13 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -.00 LOL 81.05 VL 26.356 GAL 7.48 AZL 86.77 MCA 119.72 SMA 119.80 ECC .26189 INC 3.2258 V1 30.254
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.757 GAP -14.10 AZP 91.60 TAL 157.68 TAP 277.39 RCA 88.43 APO 151.18 V2 35.105
 RC 42.442 GL 14.94 GP 1.23 ZAL 50.71 ZAP 3.61 ETS 341.87 ZAE 171.17 ETE 267.68 ZAC 110.94 ETC 166.00 CLP -3.39

PLANETOCENTRIC CONIC

C3 32.534 VHL 5.704 DLA 26.12 RAL 24.14 RAD 6568.3 VEL 12.406 PTH 2.24 VHP 9.197 DPA 5.27 RAP 16.67 ECC 1.5354
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 9 15 3335.12 -23.94 120.05 263.17 74.40 4 4 50 2735.1 -25.85 111.90
 90.00 23 49 51 3977.31 -7.09 159.50 256.30 62.51 24 56 9 3377.3 -10.72 152.70
 100.00 4 58 23 2983.28 -26.83 95.00 264.00 76.29 5 48 6 2383.3 -28.44 86.57
 100.00 0 47 20 3604.38 -4.47 145.36 254.87 60.41 1 50 44 3204.4 -8.37 138.75
 110.00 6 55 46 2615.99 -32.93 68.57 265.46 80.25 7 39 22 2016.0 -33.92 59.47
 110.00 1 6 26 3744.43 .83 137.53 251.57 55.83 2 8 51 3144.4 -3.66 131.32

DIFFERENTIAL CORRECTIONS

TOE -.8721 TRA-1.7851 TC3 -.0339 BAU .0389 SGT 2181.1 SGR 369.0 SG3 197.8 ST 1061.3 SR 352.2 SS 976.3
 RDE -.3502 RRA .0532 RC3 -.0827 FAU .02740 RRT .2396 RRF -.2359 RTF -.9174 CRT .7957 CRS .8707 CST .9904
 FDE 1.0943 FRA 1.6333 FC3 -.7292 BSP 7137 SGB 2212.1 R23 -.0103 R13 -.9175 LSA 1468.7 MSA 215.2 SSA 16.1
 BDE .9398 BRA 1.7859 BC3 .0894 FSP -556 SG1 2183.0 SG2 358.0 THA 2.39 EL1 1099.1 EL2 206.0 ALF 15.34

LAUNCH DATE DEC 13 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -.00 LOL 81.05 VL 26.498 GAL 7.14 AZL 86.80 MCA 122.93 SMA 120.62 ECC .25195 INC 3.2046 V1 30.254
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.846 GAP -13.32 AZP 91.74 TAL 157.60 TAP 280.53 RCA 90.23 APO 151.01 V2 35.092
 RC 42.671 GL 15.50 GP 1.34 ZAL 50.83 ZAP 5.18 ETS 346.83 ZAE 171.30 ETE 286.53 ZAC 112.46 ETC 165.83 CLP -5.00

PLANETOCENTRIC CONIC

C3 30.234 VHL 5.499 DLA 26.64 RAL 23.91 RAD 6568.2 VEL 12.313 PTH 2.22 VHP 8.753 DPA 6.03 RAP 18.10 ECC 1.4976
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 56 3358.25 -23.50 121.61 261.48 73.74 3 51 54 2758.3 -25.51 113.51
 90.00 0 5 14 3917.32 -8.96 156.08 255.50 63.03 1 10 31 3317.3 -12.51 149.20
 100.00 4 48 29 2995.38 -26.63 95.84 262.42 75.89 5 38 25 2395.4 -28.30 87.44
 100.00 0 55 21 3755.43 -6.11 142.65 253.96 60.68 1 57 57 3155.4 -9.97 135.99
 110.00 6 49 13 2617.60 -32.91 68.69 263.95 80.18 7 32 51 2017.6 -33.91 59.59
 110.00 1 11 6 3705.98 -.64 135.53 250.58 55.82 2 12 52 3106.0 -5.12 129.31

DIFFERENTIAL CORRECTIONS

TOE -.8807 TRA-1.7578 TC3 .0007 BAU .0332 SGT 2245.3 SGR 357.8 SG3 217.2 ST 1104.5 SR 343.4 SS 1027.8
 RDE -.3293 RRA .0397 RC3 -.0822 FAU .02929 RRT .2738 RRF -.2700 RTF -.9228 CRT .8076 CRS .8788 CST .9908
 FDE 1.1706 FRA 1.7112 FC3 -.8386 BSP 7352 SGB 2273.6 R23 -.0118 R13 -.9229 LSA 1533.2 MSA 207.6 SSA 16.0
 BDE .9402 BRA 1.7582 BC3 .0822 FSP -615 SG1 2247.4 SG2 343.8 THA 2.56 EL1 1139.9 EL2 196.3 ALF 14.54

LAUNCH DATE DEC 13 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -.00 LOL 81.05 VL 26.629 GAL 6.81 AZL 86.82 MCA 126.15 SMA 121.38 ECC .24264 INC 3.1818 V1 30.254
 RP 108.03 LAP 2.57 LOP 207.25 VP 36.928 GAP -12.57 AZP 91.88 TAL 157.55 TAP 283.70 RCA 91.93 APO 150.84 V2 35.080
 RC 43.078 GL 16.06 GP 1.48 ZAL 51.00 ZAP 6.81 ETS 349.46 ZAE 170.63 ETE 303.70 ZAC 113.92 ETC 165.63 CLP -6.65

PLANETOCENTRIC CONIC

C3 28.150 VHL 5.306 DLA 27.14 RAL 23.63 RAD 6568.1 VEL 12.228 PTH 2.20 VHP 8.324 DPA 6.79 RAP 19.48 ECC 1.4633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 41 4 3386.19 -22.96 123.47 259.74 72.96 3 37 30 2786.2 -25.08 115.44
 90.00 0 17 54 3853.65 -10.90 152.41 254.74 63.70 1 22 8 3253.7 -14.35 145.43
 100.00 4 38 9 3008.70 -26.40 96.77 260.81 75.45 5 28 18 2408.7 -28.14 88.40
 100.00 1 3 29 3706.37 -7.73 139.92 253.06 61.04 2 5 16 3106.4 -11.54 133.20
 110.00 6 42 36 2619.30 -32.89 68.82 262.43 80.11 7 26 15 2019.3 -33.90 59.72
 110.00 1 15 32 3668.54 -2.07 133.57 249.58 55.87 2 16 41 3068.5 -6.54 127.33

DIFFERENTIAL CORRECTIONS

TOE -.8887 TRA-1.7281 TC3 .0400 BAU .0338 SGT 2306.6 SGR 346.7 SG3 238.8 ST 1147.5 SR 334.7 SS 1082.8
 RDE -.3098 RRA .0265 RC3 -.0803 FAU .03140 RRT .3125 RRF -.3089 RTF -.9279 CRT .8201 CRS .8874 CST .9913
 FDE 1.2554 FRA 1.7966 FC3 -.9656 BSP 7572 SGB 2332.5 R23 -.0136 R13 -.9281 LSA 1600.3 MSA 199.9 SSA 15.8
 BDE .9411 BRA 1.7283 BC3 .0897 FSP -681 SG1 2309.2 SG2 328.9 THA 2.75 EL1 1180.7 EL2 186.1 ALF 13.80

LAUNCH DATE DEC 13 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -.00 LOL 81.05 VL 26.750 GAL 6.50 AZL 86.84 MCA 129.36 SMA 122.11 ECC .23394 INC 3.1570 V1 30.254
 RP 108.07 LAP 2.44 LOP 210.46 VP 37.003 GAP -11.84 AZP 92.00 TAL 157.55 TAP 286.91 RCA 93.54 APO 150.67 V2 35.067
 RC 43.658 GL 16.60 GP 1.63 ZAL 51.20 ZAP 8.52 ETS 351.03 ZAE 169.41 ETE 317.25 ZAC 115.32 ETC 165.39 CLP -8.36

PLANETOCENTRIC CONIC

C3 26.262 VHL 5.125 DLA 27.61 RAL 23.32 RAD 6568.1 VEL 12.151 PTH 2.18 VHP 7.910 DPA 7.54 RAP 20.80 ECC 1.4322
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 23 48 3421.77 -22.23 125.83 257.91 71.99 3 20 49 2821.8 -24.49 117.88
 90.00 0 32 41 3783.54 -12.98 148.32 254.06 64.61 1 35 45 3183.5 -16.30 141.21
 100.00 4 27 25 3023.27 -26.15 97.78 259.19 74.98 5 17 48 2423.3 -27.96 89.44
 100.00 1 11 45 3657.28 -9.34 137.16 252.17 61.47 2 12 42 3057.3 -13.08 130.37
 110.00 6 35 58 2620.97 -32.87 68.94 260.90 80.04 7 19 39 2021.0 -33.89 59.85
 110.00 1 19 41 3632.35 -3.46 131.68 248.58 55.97 2 20 14 3032.3 -7.90 125.41

DIFFERENTIAL CORRECTIONS

TOE -.8965 TRA-1.6973 TC3 .0827 BAU .0396 SGT 2365.9 SGR 335.9 SG3 263.1 ST 1190.5 SR 326.1 SS 1142.2
 RDE -.2916 RRA .0136 RC3 -.0769 FAU .03374 RRT .3568 RRF -.3536 RTF -.9327 CRT .8333 CRS .8964 CST .9918
 FDE 1.3503 FRA 1.8912 FC3 -1.1124 BSP 7768 SGB 2389.7 R23 -.0159 R13 -.9328 LSA 1670.7 MSA 192.1 SSA 15.6
 BDE .9427 BRA 1.6973 BC3 .1129 FSP -754 SG1 2369.0 SG2 313.3 THA 2.95 EL1 1221.8 EL2 175.7 ALF 13.13

LAUNCH DATE DEC 13 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 317.166

RL 147.26 LAL -.00 LOL 81.05 VL 26.861 GAL 6.21 AZL 86.87 MCA 132.58 SMA 122.78 ECC .22584 INC 3.1299 V1 30.254
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.072 GAP -11.13 AZP 92.12 TAL 157.57 TAP 290.15 RCA 95.05 APO 150.51 V2 35.053
 RC 44.405 GL 17.11 GP 1.81 ZAL 51.44 ZAP 10.29 ETS 352.03 ZAE 167.90 ETE 327.30 ZAC 116.64 ETC 165.13 CLP -10.14

PLANETOCENTRIC CONIC

C3 24.552 VHL 4.955 DLA 28.04 RAL 22.98 RAD 6568.0 VEL 12.080 PTH 2.16 VHP 7.512 OPA 8.28 RAP 22.06 ECC 1.4041
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 1 25 3473.91 -21.09 129.23 255.92 70.66 2 59 19 2873.9 -23.54 121.41
 90.00 0 52 21 3698.17 -15.42 143.23 253.54 65.95 1 53 59 3098.2 -18.54 135.94
 100.00 4 16 18 3039.04 -25.87 98.86 257.55 74.47 5 6 57 2439.0 -27.75 90.57
 100.00 1 20 8 3608.28 -10.92 134.38 251.29 62.00 2 20 17 3008.3 -14.58 127.50
 110.00 6 29 25 2622.42 -32.85 69.05 259.37 79.97 7 13 7 2022.4 -33.89 59.97
 110.00 1 23 31 3597.67 -4.77 129.86 247.57 56.11 2 23 29 2997.7 -9.19 123.56

DIFFERENTIAL CORRECTIONS

TDE -.9032 TRA-1.6646 TC3 .1296 BAU .0486
 RDE -.2749 RRA .0007 RC3 -.0716 FAU .03639
 FDE 1.4558 FRA 1.9958 FC3-1.2833 BSP 7959
 BDE .9441 BRA 1.6646 BC3 .1481 FSP -836

MID-COURSE EXECUTION ACCURACY

SGT 2421.5 SGR 325.7 SG3 290.3
 RRT .4069 RRF -.4044 RTF -.9371
 SGB 2443.3 R23 -.0188 R13 -.9373
 SG1 2425.2 SG2 297.1 THA 3.18

ORBIT DETERMINATION ACCURACY

ST 1232.4 SR 317.9 SS 1205.6
 CRT .8470 CRS .9057 CST .9922
 LSA 1743.3 MSA 184.3 SSA 15.3
 EL1 1262.0 EL2 165.0 ALF 12.54

LAUNCH DATE DEC 13 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 323.899

RL 147.26 LAL -.00 LOL 81.05 VL 26.964 GAL 5.94 AZL 86.90 MCA 135.78 SMA 123.41 ECC .21830 INC 3.0999 V1 30.254
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.134 GAP -10.44 AZP 92.22 TAL 157.63 TAP 293.42 RCA 96.47 APO 150.36 V2 35.040
 RC 45.309 GL 17.60 GP 2.02 ZAL 51.70 ZAP 12.15 ETS 352.67 ZAE 166.31 ETE 334.79 ZAC 117.89 ETC 164.84 CLP -11.98

PLANETOCENTRIC CONIC

C3 23.003 VHL 4.796 DLA 28.44 RAL 22.61 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 7.128 OPA 9.02 RAP 23.23 ECC 1.3786
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.25 1 2 26 3644.57 -18.89 140.84 253.46 68.34 2 3 11 3044.6 -21.66 133.26
 92.75 1 48 25 3495.61 -18.87 129.93 253.46 68.32 2 46 40 2895.6 -21.65 122.35
 100.00 4 4 54 3055.88 -25.55 100.02 255.92 73.94 4 55 50 2455.9 -27.51 91.76
 100.00 1 28 38 3559.54 -12.46 131.58 250.42 62.61 2 27 58 2959.5 -16.03 124.62
 110.00 6 23 4 2623.37 -32.84 69.12 257.86 79.93 7 6 47 2023.4 -33.88 60.04
 110.00 1 26 57 3564.82 -6.02 128.13 246.57 56.29 2 26 22 2964.8 -10.41 121.79

DIFFERENTIAL CORRECTIONS

TDE -.9058 TRA-1.6274 TC3 .1846 BAU .0601
 RDE -.2596 RRA -.0122 RC3 -.0641 FAU .03946
 FDE 1.5717 FRA 2.1102 FC3-1.4850 BSP 8196
 BDE .9423 BRA 1.6275 BC3 .1954 FSP -933

MID-COURSE EXECUTION ACCURACY

SGT 2468.0 SGR 316.6 SG3 320.6
 RRT .4623 RRF -.4614 RTF -.9414
 SGB 2488.2 R23 -.0231 R13 -.9416
 SG1 2472.4 SG2 280.2 THA 3.44

ORBIT DETERMINATION ACCURACY

ST 1269.2 SR 310.1 SS 1272.1
 CRT .8608 CRS .9154 CST .9926
 LSA 1814.9 MSA 176.8 SSA 14.9
 EL1 1297.4 EL2 154.4 ALF 12.05

LAUNCH DATE DEC 13 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 330.618

RL 147.26 LAL -.00 LOL 81.05 VL 27.059 GAL 5.69 AZL 86.93 MCA 138.99 SMA 124.00 ECC .21131 INC 3.0662 V1 30.254
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.190 GAP -9.78 AZP 92.31 TAL 157.72 TAP 296.71 RCA 97.80 APO 150.21 V2 35.027
 RC 46.364 GL 18.05 GP 2.28 ZAL 51.98 ZAP 14.08 ETS 353.06 ZAE 164.77 ETE 340.53 ZAC 119.03 ETC 164.51 CLP -13.90

PLANETOCENTRIC CONIC

C3 21.599 VHL 4.648 DLA 28.79 RAL 22.23 RAD 6567.9 VEL 11.957 PTH 2.13 VHP 6.758 OPA 9.77 RAP 24.32 ECC 1.3555
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.58 0 38 51 3700.70 -19.49 145.21 252.15 68.39 1 40 32 3100.7 -22.26 137.59
 95.42 2 8 58 3408.98 -19.48 123.83 252.15 68.37 3 5 47 2809.0 -22.24 116.21
 100.00 3 53 21 3073.44 -25.22 101.21 254.30 73.39 4 44 35 2473.4 -27.25 93.00
 100.00 1 37 9 3511.47 -13.95 128.79 249.56 63.29 2 35 40 2911.5 -17.42 121.72
 110.00 6 17 4 2623.48 -32.84 69.13 256.36 79.93 7 0 48 2023.5 -33.88 60.05
 110.00 1 29 55 3534.19 -7.17 126.51 245.56 56.49 2 28 50 2934.2 -11.53 120.13

DIFFERENTIAL CORRECTIONS

TDE -.9092 TRA-1.5916 TC3 .2376 BAU .0704
 RDE -.2460 RRA -.0254 RC3 -.0541 FAU .04281
 FDE 1.7023 FRA 2.2400 FC3-1.7159 BSP 8348
 BDE .9419 BRA 1.5918 BC3 .2437 FSP -1037

MID-COURSE EXECUTION ACCURACY

SGT 2513.5 SGR 309.5 SG3 354.9
 RRT .5256 RRF -.5261 RTF -.9451
 SGB 2532.5 R23 -.0280 R13 -.9453
 SG1 2518.8 SG2 262.8 THA 3.74

ORBIT DETERMINATION ACCURACY

ST 1306.8 SR 303.5 SS 1344.4
 CRT .8754 CRS .9254 CST .9931
 LSA 1891.6 MSA 169.2 SSA 14.5
 EL1 1333.8 EL2 143.7 ALF 11.63

LAUNCH DATE DEC 13 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 337.321

RL 147.26 LAL -.00 LOL 81.05 VL 27.146 GAL 5.45 AZL 86.97 MCA 142.19 SMA 124.55 ECC .20484 INC 3.0279 V1 30.254
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.241 GAP -9.14 AZP 92.39 TAL 157.83 TAP 300.03 RCA 99.04 APO 150.07 V2 35.013
 RC 47.558 GL 18.46 GP 2.58 ZAL 52.27 ZAP 16.12 ETS 353.25 ZAE 163.36 ETE 345.13 ZAC 120.07 ETC 164.14 CLP -15.92

PLANETOCENTRIC CONIC

C3 20.327 VHL 4.509 DLA 29.09 RAL 21.85 RAD 6567.8 VEL 11.904 PTH 2.12 VHP 6.404 OPA 10.52 RAP 25.31 ECC 1.3345
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.06 0 25 3 3725.66 -20.05 147.28 250.87 68.48 1 27 8 3125.7 -22.80 139.63
 96.94 2 19 42 3354.87 -20.04 120.08 250.86 68.46 3 15 37 2754.9 -22.79 112.43
 100.00 3 41 58 3090.94 -24.87 102.40 252.70 72.86 4 33 29 2490.9 -26.98 94.23
 100.00 1 45 28 3464.83 -15.36 126.05 248.70 64.04 2 43 13 2864.8 -18.73 118.87
 110.00 6 11 37 2622.28 -32.85 69.04 254.90 79.98 6 55 19 2022.3 -33.89 59.96
 110.00 1 32 18 3506.25 -8.22 125.03 244.56 56.70 2 30 45 2906.2 -12.54 118.60

DIFFERENTIAL CORRECTIONS

TDE -.9102 TRA-1.5540 TC3 .2921 BAU .0802
 RDE -.2343 RRA -.0393 RC3 -.0411 FAU .04656
 FDE 1.8482 FRA 2.3860 FC3-1.9828 BSP 8476
 BDE .9399 BRA 1.5545 BC3 .2950 FSP -1154

MID-COURSE EXECUTION ACCURACY

SGT 2552.3 SGR 305.5 SG3 393.6
 RRT .5950 RRF -.5975 RTF -.9486
 SGB 2570.6 R23 -.0347 R13 -.9488
 SG1 2558.9 SG2 244.9 THA 4.11

ORBIT DETERMINATION ACCURACY

ST 1340.8 SR 298.3 SS 1421.7
 CRT .8904 CRS .9357 CST .9935
 LSA 1970.2 MSA 161.9 SSA 14.0
 EL1 1367.1 EL2 133.2 ALF 11.31

LAUNCH DATE DEC 13 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 344.007

RL 147.26 LAL -.00 LOL 81.05 VL 27.225 GAL 5.23 AZL 87.02 MCA 145.40 SMA 125.06 ECC .19887 INC 2.9838 V1 30.254
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.286 GAP -8.52 AZP 92.46 TAL 157.97 TAP 303.36 RCA 100.19 APO 149.93 V2 35.000
 RC 48.883 GL 18.80 GP 2.95 ZAL 52.57 ZAP 18.27 ETS 353.29 ZAE 162.14 ETE 349.03 ZAC 120.98 ETC 163.73 CLP -18.03

PLANETOCENTRIC CONIC

C3 19.172 VHL 4.379 DLA 29.32 RAL 21.47 RAD 6567.8 VEL 11.856 PTH 2.10 VHP 6.063 OPA 11.29 RAP 26.17 ECC 1.3155
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.06 0 15 34 3737.32 -20.55 148.35 249.61 68.62 1 17 52 3137.3 -23.27 140.66
 97.94 2 26 8 3315.43 -20.54 117.38 249.61 68.60 3 21 23 2715.4 -23.26 109.69
 100.00 3 31 18 3106.64 -24.55 103.46 251.15 72.39 4 23 4 2506.6 -26.73 95.33
 100.00 1 53 5 3421.35 -16.64 123.45 247.84 64.80 2 50 7 2821.3 -19.90 116.17
 110.00 6 6 55 2619.14 -32.89 68.80 253.47 80.12 6 50 34 2019.1 -33.90 59.71
 110.00 1 33 57 3481.60 -9.14 123.71 243.55 56.92 2 31 59 2881.6 -13.43 117.24

DIFFERENTIAL CORRECTIONS

TDE -.9056 TRA-1.5123 TC3 .3526 BAU .0906
 RDE -.2246 RRA -.0542 RC3 -.0241 FAU .05091
 FDE 2.0070 FRA 2.5478 FC3-2.2987 BSP 8632
 BDE .9331 BRA 1.5132 BC3 .3534 FSP -1291

MID-COURSE EXECUTION ACCURACY

SGT 2578.9 SGR 305.7 SG3 436.9
 RRT .6676 RRF -.6730 RTF -.9518
 SGB 2596.9 R23 -.0438 R13 -.9521
 SGI 2587.0 SG2 226.9 THA 4.56

ORBIT DETERMINATION ACCURACY

ST 1366.7 SR 294.9 SS 1501.7
 CRT .9053 CRS .9461 CST .9939
 LSA 2045.9 MSA 154.9 SSA 13.4
 EL1 1392.8 EL2 123.0 ALF 11.14

LAUNCH DATE DEC 13 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 350.676

RL 147.26 LAL -.00 LOL 81.05 VL 27.298 GAL 5.02 AZL 87.07 MCA 148.60 SMA 125.53 ECC .19339 INC 2.9318 V1 30.254
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.327 GAP -7.91 AZP 92.50 TAL 158.12 TAP 306.71 RCA 101.25 APO 149.81 V2 34.987
 RC 50.327 GL 19.07 GP 3.41 ZAL 52.86 ZAP 20.54 ETS 353.17 ZAE 161.13 ETE 352.51 ZAC 121.75 ETC 163.27 CLP -20.27

PLANETOCENTRIC CONIC

C3 18.121 VHL 4.257 DLA 29.48 RAL 21.11 RAD 6567.7 VEL 11.811 PTH 2.09 VHP 5.738 OPA 12.08 RAP 26.90 ECC 1.2982
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.45 0 9 20 3739.46 -20.98 148.69 248.40 68.81 1 11 40 3139.5 -23.68 140.96
 98.55 2 29 29 3286.81 -20.97 115.45 248.39 68.80 3 24 16 2686.8 -23.67 107.72
 100.00 3 22 36 3116.80 -24.34 104.14 249.69 72.09 4 14 33 2516.8 -26.56 96.04
 100.00 1 58 54 3384.71 -17.69 121.23 246.93 65.50 2 55 19 2784.7 -20.84 113.86
 110.00 6 3 18 2613.25 -32.96 68.36 252.09 80.37 6 46 51 2013.3 -33.94 59.26
 110.00 1 34 41 3461.02 -9.90 122.60 242.54 57.11 2 32 22 2861.0 -14.17 116.10

DIFFERENTIAL CORRECTIONS

TDE -.8994 TRA-1.4709 TC3 .4073 BAU .0987
 RDE -.2175 RRA -.0708 RC3 -.0026 FAU .05566
 FDE 2.1850 FRA 2.7334 FC3-2.6591 BSP 8698
 BDE .9253 BRA 1.4726 BC3 .4073 FSP -1439

MID-COURSE EXECUTION ACCURACY

SGT 2599.4 SGR 312.5 SG3 485.9
 RRT .7417 RRF -.7501 RTF -.9545
 SGB 2618.2 R23 -.0560 R13 -.9550
 SGI 2609.8 SG2 208.8 THA 5.13

ORBIT DETERMINATION ACCURACY

ST 1389.6 SR 294.6 SS 1588.0
 CRT .9205 CRS .9565 CST .9943
 LSA 2125.4 MSA 148.1 SSA 12.7
 EL1 1416.0 EL2 113.0 ALF 11.11

LAUNCH DATE DEC 13 1968

FLIGHT TIME 138.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 357.325

RL 147.26 LAL -.00 LOL 81.05 VL 27.365 GAL 4.83 AZL 87.13 MCA 151.79 SMA 125.96 ECC .18836 INC 2.8694 V1 30.254
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.363 GAP -7.33 AZP 92.53 TAL 158.28 TAP 310.07 RCA 102.24 APO 149.69 V2 34.974
 RC 51.881 GL 19.24 GP 3.98 ZAL 53.13 ZAP 22.96 ETS 352.89 ZAE 160.37 ETE 355.86 ZAC 122.34 ETC 162.74 CLP -22.63

PLANETOCENTRIC CONIC

C3 17.161 VHL 4.143 DLA 29.54 RAL 20.78 RAD 6567.7 VEL 11.770 PTH 2.08 VHP 5.427 OPA 12.94 RAP 27.45 ECC 1.2824
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.22 0 6 15 3732.51 -21.33 148.32 247.23 69.07 1 8 28 3132.5 -23.99 140.56
 98.78 2 29 57 3268.47 -21.32 114.23 247.22 69.06 3 24 26 2668.5 -23.98 106.47
 100.00 3 18 5 3114.48 -24.39 103.98 248.39 72.16 4 9 59 2514.5 -26.60 95.88
 100.00 2 0 49 3361.73 -18.33 119.83 245.90 65.97 2 56 51 2761.7 -21.42 112.40
 110.00 6 1 8 2603.51 -33.07 67.62 250.77 80.80 6 44 32 2003.5 -33.98 58.50
 110.00 1 34 15 3445.47 -10.48 121.77 241.53 57.27 2 31 40 2845.5 -14.72 115.23

DIFFERENTIAL CORRECTIONS

TDE -.8815 TRA-1.4211 TC3 .4746 BAU .1090
 RDE -.2130 RRA -.0896 RC3 .0261 FAU .06136
 FDE 2.3709 FRA 2.9357 FC3-3.0955 BSP 8880
 BDE .9069 BRA 1.4239 BC3 .4753 FSP -1622

MID-COURSE EXECUTION ACCURACY

SGT 2597.0 SGR 327.9 SG3 540.3
 RRT .8095 RRF -.8222 RTF -.9574
 SGB 2617.7 R23 -.0732 R13 -.9580
 SGI 2610.6 SG2 191.5 THA 5.87

ORBIT DETERMINATION ACCURACY

ST 1395.0 SR 297.6 SS 1672.2
 CRT .9347 CRS .9663 CST .9945
 LSA 2193.3 MSA 141.9 SSA 11.8
 EL1 1422.6 EL2 103.7 ALF 11.34

LAUNCH DATE DEC 13 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 363.955

RL 147.26 LAL -.00 LOL 81.05 VL 27.425 GAL 4.66 AZL 87.21 MCA 154.99 SMA 126.36 ECC .18378 INC 2.7926 V1 30.254
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.396 GAP -6.76 AZP 92.53 TAL 158.45 TAP 313.43 RCA 103.14 APO 149.58 V2 34.961
 RC 53.536 GL 19.27 GP 4.72 ZAL 53.37 ZAP 25.56 ETS 352.44 ZAE 159.86 ETE 359.32 ZAC 122.73 ETC 162.13 CLP -25.15

PLANETOCENTRIC CONIC

C3 16.277 VHL 4.035 DLA 29.48 RAL 20.51 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 5.132 OPA 13.88 RAP 27.79 ECC 1.2679
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.45 0 6 59 3714.60 -21.59 147.10 246.11 69.43 1 8 54 3114.6 -24.19 139.30
 98.55 2 27 5 3262.12 -21.57 113.86 246.11 69.41 3 21 27 2662.1 -24.18 106.07
 100.00 3 20 15 3091.94 -24.85 102.47 247.33 72.83 4 11 47 2491.9 -26.97 94.30
 100.00 1 56 30 3360.01 -18.38 119.72 244.71 66.00 2 52 30 2760.0 -21.46 112.29
 110.00 6 0 56 2588.45 -33.23 66.47 249.51 81.46 6 44 4 1988.5 -34.05 57.33
 110.00 1 32 18 3436.26 -10.81 121.27 240.51 57.37 2 29 35 2836.3 -15.04 114.71

DIFFERENTIAL CORRECTIONS

TDE -.8617 TRA-1.3734 TC3 .5277 BAU .1156
 RDE -.2126 RRA -.1125 RC3 .0627 FAU .06750
 FDE 2.5755 FRA 3.1715 FC3-3.5902 BSP 8911
 BDE .8876 BRA 1.3780 BC3 .5314 FSP -1817

MID-COURSE EXECUTION ACCURACY

SGT 2588.2 SGR 356.9 SG3 601.9
 RRT .8685 RRF -.8849 RTF -.9595
 SGB 2612.6 R23 -.0964 R13 -.9603
 SGI 2606.7 SG2 175.7 THA 6.86

ORBIT DETERMINATION ACCURACY

ST 1396.3 SR 306.8 SS 1762.0
 CRT .9487 CRS .9756 CST .9948
 LSA 2264.9 MSA 135.6 SSA 10.9
 EL1 1426.4 EL2 95.0 ALF 11.83

LAUNCH DATE DEC 13 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 370.560

RL 147.26 LAL -0.00 LOL 81.05 VL 27.479 GAL 4.49 AZL 87.30 MCA 158.18 SMA 126.72 ECC .17960 INC 2.6949 V1 30.254
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.424 GAP -6.20 AZP 92.50 TAL 158.63 TAP 316.81 RCA 103.96 APO 149.48 V2 34.948
 RC 55.282 GL 19.13 GP 5.69 ZAL 53.57 ZAP 28.36 ETS 351.76 ZAE 159.60 ETE 3.21 ZAC 122.86 ETC 161.40 CLP -27.83

PLANETOCENTRIC CONIC

C3 15.452 VHL 3.931 DLA 29.25 RAL 20.32 RAD 6567.6 VEL 11.698 PTH 2.06 VHP 4.852 DPA 14.98 RAP 27.88 ECC 1.2543
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.36 0 13 22 3679.90 -21.70 144.58 245.05 69.90 1 14 42 3079.9 -24.24 136.75
 97.64 2 19 11 3273.23 -21.69 114.73 245.04 69.89 3 13 44 2673.2 -24.23 106.91
 100.00 3 29 47 3046.95 -25.72 99.41 246.47 74.22 4 20 34 2447.0 -27.64 91.13
 100.00 1 45 28 3381.41 -17.78 121.03 243.34 65.57 2 41 49 2781.4 -20.93 113.65
 110.00 6 3 21 2565.92 -33.44 64.75 248.30 82.46 6 46 7 1965.9 -34.12 55.57
 110.00 1 28 22 3435.20 -10.85 121.21 239.46 57.38 2 25 38 2835.2 -15.08 114.65

DIFFERENTIAL CORRECTIONS

TDE -.7803 TRA-1.2696 TC3 .7142 BAU .1498
 RDE -.2121 RRA -.1363 RC3 .1242 FAU .07825
 FDE 2.6972 FRA 3.3469 FC3-4.3844 BSP 10182
 BDE .8086 BRA 1.2769 BC3 .7250 FSP -2209

MID-COURSE EXECUTION ACCURACY

SGT 2471.2 SGR 396.2 SG3 661.4
 RRT .9084 RRF -.9315 RTF -.9655
 SGB 2502.8 R23 -.1209 R13 -.9667
 SG1 2497.4 SG2 164.0 TMA 8.32

ORBIT DETERMINATION ACCURACY

ST 1303.4 SR 316.7 SS 1792.4
 CRT .9575 CRS .9827 CST .9942
 LSA 2234.7 MSA 132.3 SSA 9.0
 EL1 1338.3 EL2 89.0 ALF 13.16

LAUNCH DATE DEC 13 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 377.158

RL 147.26 LAL -0.00 LOL 81.05 VL 27.529 GAL 4.35 AZL 87.43 MCA 161.37 SMA 127.05 ECC .17585 INC 2.5658 V1 30.254
 RP 108.47 LAP .82 LOP 242.44 VP 37.448 GAP -5.67 AZP 92.43 TAL 158.79 TAP 320.16 RCA 104.71 APO 149.39 V2 34.936
 RC 57.109 GL 18.71 GP 7.01 ZAL 53.67 ZAP 31.40 ETS 350.79 ZAE 159.53 ETE 7.97 ZAC 122.69 ETC 160.51 CLP -30.68

PLANETOCENTRIC CONIC

C3 14.680 VHL 3.831 DLA 28.78 RAL 20.29 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 4.593 DPA 16.32 RAP 27.67 ECC 1.2416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.65 0 31 42 3608.98 -21.63 159.33 244.09 70.54 1 31 51 3009.0 -24.09 131.48
 95.35 2 0 36 3321.18 -21.62 118.24 244.09 70.53 2 55 57 2721.2 -24.08 110.39
 100.00 3 46 0 2982.38 -26.84 94.93 245.79 76.32 4 35 42 2382.4 -28.46 86.50
 100.00 1 28 59 3423.02 -18.59 123.55 241.90 64.77 2 26 2 2823.0 -19.85 116.28
 110.00 6 9 29 2533.15 -33.70 62.23 247.17 83.93 6 51 42 1933.1 -34.18 53.01
 110.00 1 21 59 3445.01 -10.49 121.74 238.43 57.28 2 19 24 2845.0 -14.73 115.20

DIFFERENTIAL CORRECTIONS

TDE -.8266 TRA-1.3007 TC3 .5249 BAU .1082
 RDE -.2326 RRA -.1843 RC3 .1687 FAU .07920
 FDE 3.0575 FRA 3.8080 FC3-4.6709 BSP 8055
 BDE .8587 BRA 1.3137 BC3 .5513 FSP -2154

MID-COURSE EXECUTION ACCURACY

SGT 2571.9 SGR 486.3 SG3 752.9
 RRT .8431 RRF -.9664 RTF -.9598
 SGB 2617.5 R23 -.1758 R13 -.9618
 SG1 2612.7 SG2 159.2 TMA 10.15

ORBIT DETERMINATION ACCURACY

ST 1404.1 SR 360.4 SS 1972.7
 CRT .9738 CRS .9904 CST .9958
 LSA 2445.1 MSA 120.7 SSA 9.3
 EL1 1447.4 EL2 79.4 ALF 14.08

LAUNCH DATE DEC 13 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 383.725

RL 147.26 LAL -0.00 LOL 81.05 VL 27.573 GAL 4.22 AZL 87.61 MCA 164.55 SMA 127.35 ECC .17247 INC 2.3856 V1 30.254
 RP 108.51 LAP .64 LOP 245.62 VP 37.469 GAP -5.15 AZP 92.30 TAL 158.96 TAP 323.51 RCA 105.38 APO 149.31 V2 34.923
 RC 59.010 GL 17.87 GP 8.90 ZAL 53.66 ZAP 34.76 ETS 349.39 ZAE 159.55 ETE 14.33 ZAC 122.08 ETC 159.37 CLP -33.74

PLANETOCENTRIC CONIC

C3 13.920 VHL 3.731 DLA 27.92 RAL 20.45 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 4.354 DPA 18.11 RAP 27.01 ECC 1.2291
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 58 13 3318.69 -24.23 118.94 244.18 74.89 2 53 32 2718.7 -26.08 110.75
 90.00 0 35 21 3587.98 -18.35 136.47 242.07 68.05 1 35 9 2988.0 -21.17 128.93
 100.00 4 9 1 2897.04 -28.07 88.89 245.16 79.27 4 57 18 2297.0 -29.26 80.29
 100.00 1 7 14 3484.86 -14.76 127.23 240.39 63.71 2 5 19 2884.9 -18.17 120.10
 110.00 6 20 46 2484.66 -33.99 58.47 246.05 86.13 7 2 11 1884.7 -34.15 49.23
 110.00 1 11 58 3470.01 -9.57 123.09 237.37 57.03 2 9 48 2870.0 -13.85 116.60

DIFFERENTIAL CORRECTIONS

TDE -.7621 TRA-1.2305 TC3 .5869 BAU .1201
 RDE -.2533 RRA -.2389 RC3 .2683 FAU .08823
 FDE 3.2153 FRA 4.1327 FC3-5.4870 BSP 8267
 BDE .8031 BRA 1.2535 BC3 .6454 FSP -2452

MID-COURSE EXECUTION ACCURACY

SGT 2477.0 SGR 603.2 SG3 832.0
 RRT .9578 RRF -.9653 RTF -.9614
 SGB 2549.4 R23 -.2091 R13 -.9648
 SG1 2543.8 SG2 168.9 TMA 13.19

ORBIT DETERMINATION ACCURACY

ST 1334.8 SR 408.5 SS 2027.4
 CRT .9817 CRS .9948 CST .9959
 LSA 2458.9 MSA 113.5 SSA 8.0
 EL1 1393.9 EL2 74.5 ALF 16.77

LAUNCH DATE DEC 13 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 390.271

RL 147.26 LAL -0.00 LOL 81.05 VL 27.612 GAL 4.11 AZL 87.88 MCA 167.74 SMA 127.61 ECC .16945 INC 2.1146 V1 30.254
 RP 108.55 LAP .45 LOP 248.80 VP 37.487 GAP -4.64 AZP 92.07 TAL 159.11 TAP 326.85 RCA 105.99 APO 149.24 V2 34.911
 RC 60.976 GL 16.28 GP 11.77 ZAL 53.47 ZAP 38.58 ETS 347.31 ZAE 159.30 ETE 23.39 ZAC 120.85 ETC 157.81 CLP -37.01

PLANETOCENTRIC CONIC

C3 13.145 VHL 3.626 DLA 26.40 RAL 20.96 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 4.147 DPA 20.71 RAP 25.71 ECC 1.2163
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 50 14 3141.03 -26.82 106.58 244.12 80.55 3 42 35 2541.0 -27.85 98.06
 90.00 23 43 30 3740.68 -14.22 145.77 239.99 65.25 24 45 50 3140.7 -17.44 138.58
 100.00 4 41 3 2783.78 -29.23 80.68 244.51 83.45 5 27 27 2183.8 -29.83 71.92
 100.00 0 39 18 3573.17 -12.03 132.37 238.89 62.43 1 38 51 2973.2 -15.63 125.43
 110.00 6 40 9 2411.14 -34.18 52.74 244.86 89.52 7 20 20 1811.1 -33.87 43.50
 110.00 0 56 41 3518.57 -7.76 125.68 236.34 56.60 1 55 20 2918.6 -12.10 119.28

DIFFERENTIAL CORRECTIONS

TDE -.6909 TRA-1.1867 TC3 .6066 BAU .1296
 RDE -.2897 RRA -.3256 RC3 .4189 FAU .09652
 FDE 3.3050 FRA 4.5124 FC3-6.3570 BSP 8216
 BDE .7492 BRA 1.2112 BC3 .7372 FSP -2718

MID-COURSE EXECUTION ACCURACY

SGT 2371.1 SGR 794.9 SG3 914.0
 RRT .9634 RRF -.9947 RTF -.9615
 SGB 2500.8 R23 -.2298 R13 -.9679
 SG1 2492.6 SG2 202.6 TMA 18.02

ORBIT DETERMINATION ACCURACY

ST 1254.4 SR 489.3 SS 2058.5
 CRT .9880 CRS .9976 CST .9962
 LSA 2457.6 MSA 102.7 SSA 7.0
 EL1 1344.6 EL2 70.4 ALF 21.14

LAUNCH DATE DEC 13 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 396.796

RL 147.26 LAL -.00 LOL 81.05 VL 27.648 GAL 4.00 AZL 88.34 MCA 170.92 SMA 127.85 ECC .16678 INC 1.6583 V1 30.254
 RP 108.58 LAP .26 LOP 251.98 VP 37.502 GAP -4.14 AZP 91.64 TAL 159.25 TAP 330.18 RCA 106.53 APO 149.17 V2 34.900
 RC 63.000 GL 13.16 GP 16.57 ZAL 52.99 ZAP 43.20 ETS 344.01 ZAE 157.79 ETE 36.61 ZAC 118.50 ETC 155.52 CLP -40.48

PLANETOCENTRIC CONIC

C3 12.304 VML 3.508 DLA 23.46 RAL 22.15 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 3.998 DPA 24.97 RAP 23.30 ECC 1.2025
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 48 37 2942.69 -28.22 92.25 243.60 87.59 4 37 40 2342.7 -28.26 83.59
 90.00 22 54 35 3910.69 -9.16 155.70 238.37 63.09 23 59 45 3310.7 -12.70 148.81
 100.00 5 28 25 2620.90 -29.89 68.62 243.65 89.75 6 12 6 2020.9 -29.61 59.83
 100.00 0 1 24 3707.72 -7.69 139.99 237.58 61.02 1 3 11 3107.7 -11.49 133.27
 110.00 7 13 46 2291.31 -33.85 43.40 243.45 95.03 7 51 58 1691.3 -32.79 54.32
 110.00 0 32 32 3610.07 -4.30 130.51 235.50 56.06 1 32 42 3010.1 -8.73 124.22

DIFFERENTIAL CORRECTIONS

TDE -.5956 TRA-1.0999 TC3 .6140 BAU .1510
 RDE -.3445 RRA -.4762 RC3 .6827 FAU .10379
 FDE 3.1645 FRA 4.8881 FC3-7.3027 BSP 8310
 BDE .6881 BRA 1.1986 BC3 .9182 FSP -2961

MID-COURSE EXECUTION ACCURACY

SGT 2228.8 SGR 1124.8 SG3 980.2
 RRT .9631 RRF -.9986 RTF -.9602
 SGB 2496.5 R23 -.2219 R13 -.9736
 SG1 2481.7 SG2 271.7 THA 26.26

ORBIT DETERMINATION ACCURACY

ST 1136.7 SR 617.8 SS 2000.8
 CRT .9929 CRS .9991 CST .9970
 LSA 2381.2 MSA 84.2 SSA 6.3
 EL1 1292.1 EL2 64.7 ALF 28.43

LAUNCH DATE DEC 13 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 403.298

RL 147.26 LAL -.00 LOL 81.05 VL 27.678 GAL 3.92 AZL 89.28 MCA 174.10 SMA 128.06 ECC .16444 INC .7069 V1 30.254
 RP 108.62 LAP .07 LOP 255.15 VP 37.515 GAP -3.66 AZP 90.71 TAL 159.37 TAP 333.47 RCA 107.00 APO 149.12 V2 34.889
 RC 65.076 GL 5.87 GP 25.89 ZAL 52.13 ZAP 49.71 ETS 338.31 ZAE 151.99 ETE 54.15 ZAC 113.68 ETC 151.86 CLP -44.05

PLANETOCENTRIC CONIC

C3 11.389 VML 3.375 DLA 16.66 RAL 24.94 RAD 6567.4 VEL 11.523 PTH 2.01 VHP 4.011 DPA 33.21 RAP 18.30 ECC 1.1874
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 19 10 2634.64 -27.06 69.87 242.63 98.69 6 3 5 2034.6 -25.57 61.51
 90.00 21 46 20 4186.31 -.40 171.22 237.93 61.69 22 56 7 3586.3 -4.19 164.58
 100.00 6 49 57 2341.89 -28.19 48.12 242.41 100.37 7 28 59 1741.9 -26.47 39.74
 100.00 22 58 15 3954.29 .61 153.60 237.37 60.11 24 4 9 3354.3 -3.37 147.07
 110.00 8 19 3 2063.12 -31.15 26.19 241.65 104.86 8 53 26 1463.1 -28.79 17.78
 110.00 23 45 38 3805.82 3.17 140.74 235.77 55.95 24 49 4 3205.8 -1.32 134.53

DIFFERENTIAL CORRECTIONS

TDE -.4752 TRA-1.0471 TC3 .5682 BAU .2008
 RDE -.4103 RRA -.7974 RC3 1.1902 FAU .10194
 FDE 2.4933 FRA 5.1251 FC3-7.7490 BSP 8729
 BDE .6278 BRA 1.3161 BC3 1.3189 FSP -2915

MID-COURSE EXECUTION ACCURACY

SGT 2059.4 SGR 1768.4 SG3 976.6
 RRT .9589 RRF -.9998 RTF -.9569
 SGB 2714.5 R23 -.1716 R13 -.9849
 SG1 2687.1 SG2 384.7 THA 40.47

ORBIT DETERMINATION ACCURACY

ST 980.2 SR 815.8 SS 1745.5
 CRT .9982 CRS .9997 CST .9993
 LSA 2161.4 MSA 39.7 SSA 8.8
 EL1 1274.7 EL2 37.6 ALF 39.76

LAUNCH DATE DEC 13 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 409.772

RL 147.26 LAL -.00 LOL 81.05 VL 27.706 GAL 3.84 AZL 92.41 MCA 177.27 SMA 128.25 ECC .16242 INC 2.4070 V1 30.254
 RP 108.65 LAP -.11 LOP 258.33 VP 37.525 GAP -3.20 AZP 87.59 TAL 159.46 TAP 336.74 RCA 107.42 APO 149.08 V2 34.878
 RC 67.198 GL -19.22 GP 48.84 ZAL 54.70 ZAP 63.02 ETS 327.90 ZAE 131.76 ETE 70.71 ZAC 101.22 ETC 146.10 CLP -46.43

PLANETOCENTRIC CONIC

C3 12.446 VML 3.528 DLA -6.95 RAL 33.52 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 5.027 DPA 53.01 RAP 2.05 ECC 1.2048
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 0 9 1889.87 -10.60 21.88 246.93 116.41 9 31 39 1289.9 -6.97 15.08
 90.00 19 13 48 4968.38 22.07 217.51 249.25 71.80 20 36 36 4368.4 19.38 209.87
 100.00 10 18 10 1638.18 -11.48 2.91 246.47 117.79 10 45 28 1038.2 -7.67 356.19
 100.00 20 38 28 4695.31 23.01 197.08 248.90 70.38 21 56 43 4095.3 20.13 189.47
 110.00 11 18 49 1448.29 -13.82 347.14 245.10 121.58 11 42 57 848.3 -9.54 340.65
 110.00 21 54 18 4457.96 25.51 177.97 247.82 66.44 23 8 36 3858.0 22.10 170.48

DIFFERENTIAL CORRECTIONS

TDE -.3170 TRA-1.0653 TC3 .4293 BAU .3340
 RDE -.2332 RRA-1.7010 RC3 1.9608 FAU .06642
 FDE .5416 FRA 4.0121 FC3-4.6203 BSP 11514
 BDE .3936 BRA 2.0070 BC3 2.0072 FSP -1979

MID-COURSE EXECUTION ACCURACY

SGT 1842.4 SGR 3130.9 SG3 637.8
 RRT .9473 RRF -1.0000 RTF -.9471
 SGB 3632.8 R23 -.0822 R13 -.9966
 SG1 3596.3 SG2 513.8 THA 60.19

ORBIT DETERMINATION ACCURACY

ST 733.9 SR 917.7 SS 937.8
 CRT .9383 CRS 1.0000 CST .9363
 LSA 1486.3 MSA 225.9 SSA .3
 EL1 1157.7 EL2 201.2 ALF 51.76

LAUNCH DATE DEC 13 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 416.337

RL 147.26 LAL -.00 LOL 81.05 VL 27.729 GAL 3.77 AZL 55.84 MCA 180.54 SMA 128.41 ECC .16055 INC34.1427 V1 30.254
 RP 108.68 LAP -.30 LOP 261.50 VP 37.532 GAP -2.71 AZP 124.16 TAL 159.62 TAP 340.16 RCA 107.79 APO 149.03 V2 34.867
 RC 69.360 GL 63.87 GP -80.26 ZAL 83.36 ZAP 84.23 ETS 151.98 ZAE 82.86 ETE 36.22 ZAC 110.38 ETC 330.06 CLP 53.57

PLANETOCENTRIC CONIC

C3 299.483 VML 17.306 DLA 57.45 RAL 324.44 RAD 6571.7 VEL 20.513 PTH 3.17 VHP 19.466 DPA -57.33 RAP 109.07 ECC 5.9287
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.68 16 50 43 4929.36 -5.07 235.50 231.20 32.70 18 12 52 4329.4 -11.78 231.51
 142.32 2 12 3 3291.67 -5.06 102.58 231.18 32.70 3 6 55 2691.7 -11.77 98.60
 37.68 16 50 43 4929.36 -5.07 235.50 231.20 32.70 18 12 52 4329.4 -11.78 231.51
 142.32 2 12 3 3291.67 -5.06 102.58 231.18 32.70 3 6 55 2691.7 -11.77 98.60
 37.68 16 50 43 4929.36 -5.07 235.50 231.20 32.70 18 12 52 4329.4 -11.78 231.51
 142.32 2 12 3 3291.67 -5.06 102.58 231.18 32.70 3 6 55 2691.7 -11.77 98.60

DIFFERENTIAL CORRECTIONS

TDE -7.6536 TRA .8357 TC3 -.2448 BAU 1.4581
 RD -11.8603 RRA -.4383 RC3 -.2697 FAU -.03203
 FDE 3.4892 FRA -.0610 FC3 .0926 BSP 7313
 BDE 14.1154 BRA .9437 BC3 .3642 FSP 156

MID-COURSE EXECUTION ACCURACY

SGT 2720.9 SGR 4045.1 SG3 103.6
 RRT .9633 RRF -.9945 RTF -.9861
 SGB 4875.1 R23 .0213 R13 -.9998
 SG1 4836.6 SG2 610.9 THA 56.45

ORBIT DETERMINATION ACCURACY

ST 2538.8 SR 3927.7 SS 1943.0
 CRT .9967 CRS .9995 CST .9987
 LSA 5061.3 MSA 174.0 SSA .5
 EL1 4673.5 EL2 173.6 ALF 57.16

LAUNCH DATE DEC 13 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 422.700

RL 147.26 LAL -0.00 LOL 81.05 VL 27.749 GAL 3.73 AZL 82.29 HCA 183.65 SMA 128.55 ECC .15920 INC 7.7065 V1 30.254
 RP 108.72 LAP -.49 LOP 264.67 VP 37.538 GAP -2.28 AZP 97.69 TAL 159.60 TAP 343.25 RCA 108.08 APO 149.01 V2 34.858
 RC 71.560 GL 47.15 GP -42.98 ZAL 66.90 ZAP 66.37 ETS 27.27 ZAE 133.85 ETE 287.97 ZAC 123.27 ETC 195.32 CLP -56.78

PLANETOCENTRIC CONIC

C3 25.658 VHL 5.065 DLA 52.42 RAL 358.56 RAD 6568.0 VEL 12.126 PTH 2.17 VHP 4.157 DPA -30.94 RAP 45.02 ECC 1.4223
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.85 19 24 19 4378.74 -31.32 208.75 240.66 45.55 20 37 17 3778.7 -36.73 202.05
 136.15 4 10 43 2815.07 -31.31 84.29 240.65 45.54 4 57 38 2215.1 -36.71 77.59
 43.85 19 24 19 4378.74 -31.32 208.75 240.66 45.55 20 37 17 3778.7 -36.73 202.05
 136.15 4 10 43 2815.07 -31.31 84.29 240.65 45.54 4 57 38 2215.1 -36.71 77.59
 43.85 19 24 19 4378.74 -31.32 208.75 240.66 45.55 20 37 17 3778.7 -36.73 202.05
 136.15 4 10 43 2815.07 -31.31 84.29 240.65 45.54 4 57 38 2215.1 -36.71 77.59

DIFFERENTIAL CORRECTIONS

TDE -.9257 TRA -.6064 TC3 .0862 BAU .2617
 RDE 2.4090 RRA .6349 RC3 -.7582 FAU .07931
 FDE 8.2207 FRA 2.3882 FC3 -2.6760 BSP 10438
 BDE 2.5807 BRA .8780 BC3 .7630 FSP -2757

MID-COURSE EXECUTION ACCURACY

SGT 1539.2 SGR 3066.2 SG3 920.2
 RRT -.8994 RRF .9994 RTF -.9123
 SGB 3430.9 R23 -.0541 R13 .9984
 SGI 3376.0 SG2 611.1 THA 115.18

ORBIT DETERMINATION ACCURACY

ST 1100.1 SR 2747.8 SS 3373.5
 CRT -.9833 CRS -.9999 CST .9856
 LSA 4483.9 MSA 188.0 SSA 1.7
 EL1 2953.9 EL2 186.2 ALF 111.58

LAUNCH DATE DEC 13 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 429.113

RL 147.26 LAL -0.00 LOL 81.05 VL 27.766 GAL 3.70 AZL 84.31 HCA 186.82 SMA 128.66 ECC .15804 INC 5.6876 V1 30.254
 RP 108.74 LAP -.67 LOP 267.84 VP 37.542 GAP -1.84 AZP 95.65 TAL 159.60 TAP 346.42 RCA 108.33 APO 149.00 V2 34.848
 RC 73.792 GL 39.52 GP -27.04 ZAL 62.79 ZAP 65.80 ETS 15.71 ZAE 150.37 ETE 286.11 ZAC 122.79 ETC 182.49 CLP -62.60

PLANETOCENTRIC CONIC

C3 18.628 VHL 4.316 DLA 46.47 RAL 6.05 RAD 6567.8 VEL 11.833 PTH 2.10 VHP 3.343 DPA -17.47 RAP 35.33 ECC 1.3066
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.48 20 19 16 4241.19 -31.58 195.22 240.33 53.95 21 29 57 3641.2 -36.04 187.63
 128.52 4 15 28 2798.00 -31.57 82.84 240.32 53.94 5 2 6 2198.0 -36.03 75.26
 51.48 20 19 16 4241.19 -31.58 195.22 240.33 53.95 21 29 57 3641.2 -36.04 187.63
 128.52 4 15 28 2798.00 -31.57 82.84 240.32 53.94 5 2 6 2198.0 -36.03 75.26
 51.48 20 19 16 4241.19 -31.58 195.22 240.33 53.95 21 29 57 3641.2 -36.04 187.63
 128.52 4 15 28 2798.00 -31.57 82.84 240.32 53.94 5 2 6 2198.0 -36.03 75.26

DIFFERENTIAL CORRECTIONS

TDE -.4250 TRA -.5081 TC3 .0018 BAU .1952
 RDE 1.2983 RRA .5552 RC3 -.7837 FAU .13102
 FDE 9.5005 FRA 4.4428 FC3 -6.0892 BSP 7677
 BDE 1.3661 BRA .7526 BC3 .7837 FSP -4266

MID-COURSE EXECUTION ACCURACY

SGT 1130.2 SGR 2138.5 SG3 1393.2
 RRT -.8363 RRF .9992 RTF -.8510
 SGB 2418.8 R23 -.0851 R13 .9960
 SGI 2352.3 SG2 563.3 THA 115.41

ORBIT DETERMINATION ACCURACY

ST 636.1 SR 1753.2 SS 3717.9
 CRT -.9565 CRS -.9999 CST .9612
 LSA 4155.7 MSA 177.4 SSA 2.2
 EL1 1856.8 EL2 175.3 ALF 109.32

LAUNCH DATE DEC 13 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 435.507

RL 147.26 LAL -0.00 LOL 81.05 VL 27.779 GAL 3.68 AZL 85.05 HCA 189.99 SMA 128.76 ECC .15713 INC 4.9477 V1 30.254
 RP 108.77 LAP -.86 LOP 271.01 VP 37.544 GAP -1.41 AZP 94.87 TAL 159.57 TAP 349.55 RCA 108.53 APO 148.99 V2 34.839
 RC 76.053 GL 36.04 GP -19.81 ZAL 61.09 ZAP 69.42 ETS 9.96 ZAE 158.37 ETE 280.65 ZAC 120.36 ETC 176.93 CLP -68.06

PLANETOCENTRIC CONIC

C3 16.516 VHL 4.064 DLA 43.60 RAL 8.87 RAD 6567.7 VEL 11.743 PTH 2.07 VHP 3.070 DPA -11.73 RAP 30.30 ECC 1.2718
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.34 20 45 9 4175.19 -30.91 188.60 239.93 57.57 21 54 44 3575.2 -34.94 180.78
 124.66 4 12 5 2808.20 -30.90 83.25 239.92 57.56 4 58 53 2208.2 -34.93 75.43
 55.34 20 45 9 4175.19 -30.91 188.60 239.93 57.57 21 54 44 3575.2 -34.94 180.78
 124.66 4 12 5 2808.20 -30.90 83.25 239.92 57.56 4 58 53 2208.2 -34.93 75.43
 55.34 20 45 9 4175.19 -30.91 188.60 239.93 57.57 21 54 44 3575.2 -34.94 180.78
 124.66 4 12 5 2808.20 -30.90 83.25 239.92 57.56 4 58 53 2208.2 -34.93 75.43

DIFFERENTIAL CORRECTIONS

TDE -.1552 TRA -.3825 TC3 -.1625 BAU .1553
 RDE .9122 RRA .4562 RC3 -.6843 FAU .15762
 FDE 9.9161 FRA 5.5900 FC3 -8.2619 BSP 5840
 BDE .9253 BRA .5953 BC3 .7033 FSP -5083

MID-COURSE EXECUTION ACCURACY

SGT 787.3 SGR 1659.0 SG3 1637.0
 RRT -.6656 RRF .9984 RTF -.6889
 SGB 1836.3 R23 -.0799 R13 .9957
 SGI 1749.7 SG2 557.1 THA 109.60

ORBIT DETERMINATION ACCURACY

ST 312.7 SR 1313.5 SS 3807.8
 CRT -.8298 CRS -.9997 CST .8436
 LSA 4036.4 MSA 171.1 SSA 3.0
 EL1 1339.3 EL2 171.1 ALF 101.36

LAUNCH DATE DEC 13 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 441.881

RL 147.26 LAL -0.00 LOL 81.05 VL 27.790 GAL 3.67 AZL 85.44 HCA 193.16 SMA 128.84 ECC .15647 INC 4.5617 V1 30.254
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.544 GAP -.99 AZP 94.44 TAL 159.50 TAP 352.65 RCA 108.68 APO 148.99 V2 34.831
 RC 78.340 GL 34.05 GP -15.74 ZAL 60.12 ZAP 74.26 ETS 6.57 ZAE 162.91 ETE 269.72 ZAC 117.62 ETC 173.92 CLP -73.63

PLANETOCENTRIC CONIC

C3 15.516 VHL 3.939 DLA 41.96 RAL 10.40 RAD 6567.6 VEL 11.700 PTH 2.06 VHP 2.923 DPA -8.94 RAP 26.48 ECC 1.2554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.64 21 0 42 4135.51 -30.36 184.70 239.75 59.52 22 9 37 3535.5 -34.16 176.78
 122.36 4 8 47 2819.49 -30.35 83.86 239.75 59.51 4 55 47 2219.5 -34.15 75.94
 57.64 21 0 42 4135.51 -30.36 184.70 239.75 59.52 22 9 37 3535.5 -34.16 176.78
 122.36 4 8 47 2819.49 -30.35 83.86 239.75 59.51 4 55 47 2219.5 -34.15 75.94
 57.64 21 0 42 4135.51 -30.36 184.70 239.75 59.52 22 9 37 3535.5 -34.16 176.78
 122.36 4 8 47 2819.49 -30.35 83.86 239.75 59.51 4 55 47 2219.5 -34.15 75.94

DIFFERENTIAL CORRECTIONS

TDE .0766 TRA -.2396 TC3 -.3706 BAU .1445
 RDE .7248 RRA .3852 RC3 -.5897 FAU .17431
 FDE 10.1491 FRA 6.3463 FC3 -9.7259 BSP 4494
 BDE .7288 BRA .4536 BC3 .6964 FSP -5621

MID-COURSE EXECUTION ACCURACY

SGT 563.2 SGR 1376.5 SG3 1793.1
 RRT -.1291 RRF .9967 RTF -.1657
 SGB 1487.3 R23 .0118 R13 .9974
 SGI 1378.8 SG2 557.6 THA 93.62

ORBIT DETERMINATION ACCURACY

ST 179.6 SR 1078.2 SS 3845.2
 CRT .4428 CRS -.9994 CST -.4105
 LSA 3994.0 MSA 167.7 SSA 3.9
 EL1 1081.2 EL2 160.5 ALF 85.69

LAUNCH DATE DEC 13 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -.00 LOL 81.05 VL 27.799 GAL 3.68 AZL 85.68 HCA 196.33 SMA 128.89 ECC .15604 INC 4.3236 V1 30.254
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.543 GAP -.58 AZP 94.15 TAL 159.39 TAP 355.71 RCA 108.78 APO 149.01 V2 34.824
 RC 80.651 GL 32.74 GP -13.09 ZAL 59.44 ZAP 79.61 ETS 4.30 ZAE 165.08 ETE 253.49 ZAC 114.78 ETC 172.03 CLP -79.33

PLANETOCENTRIC CONIC

C3 14.951 VHL 3.867 DLA 40.89 RAL 11.45 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 2.834 DPA -7.53 RAP 23.13 ECC 1.2461
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.17 21 11 30 4108.89 -29.94 182.11 239.77 60.74 22 19 59 3508.9 -33.59 174.15
 120.83 4 6 20 2829.45 -29.93 84.44 239.76 60.73 4 53 30 2229.4 -33.58 76.48
 59.17 21 11 30 4108.89 -29.94 182.11 239.77 60.74 22 19 59 3508.9 -33.59 174.15
 120.83 4 6 20 2829.45 -29.93 84.44 239.76 60.73 4 53 30 2229.4 -33.58 76.48
 59.17 21 11 30 4108.89 -29.94 182.11 239.77 60.74 22 19 59 3508.9 -33.59 174.15
 120.83 4 6 20 2829.45 -29.93 84.44 239.76 60.73 4 53 30 2229.4 -33.58 76.48

DIFFERENTIAL CORRECTIONS

TDE .2997 TRA -.0841 TC3 -.6091 BAU .1586
 RDE .6134 RRA .3319 RC3 -.5088 FAU .18559
 FDE10.2509 FRA 6.8691 FC-10.7461 BSP 3656
 BDE .6827 BRA .3424 BC3 .7936 FSP -6005

MID-COURSE EXECUTION ACCURACY

SGT 668.1 SGR 1184.9 SG3 1895.0
 RRT .6085 RRF .9940 RTF .5760
 SGB 1360.3 R23 .1957 R13 .9753
 SG1 1266.7 SG2 495.9 THA 67.42

ORBIT DETERMINATION ACCURACY

ST 447.1 SR 929.7 SS 3848.9
 CRT .9483 CRS -.9988 CST -.9319
 LSA 3981.3 MSA 165.9 SSA 4.7
 EL1 1023.5 EL2 128.9 ALF 65.06

LAUNCH DATE DEC 13 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -.00 LOL 81.05 VL 27.805 GAL 3.70 AZL 85.84 HCA 199.49 SMA 128.93 ECC .15585 INC 4.1614 V1 30.254
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.541 GAP -.17 AZP 93.92 TAL 159.23 TAP 358.73 RCA 108.84 APO 149.03 V2 34.816
 RC 82.981 GL 31.78 GP -11.20 ZAL 58.87 ZAP 85.19 ETS 2.65 ZAE 165.12 ETE 235.31 ZAC 111.94 ETC 170.73 CLP -85.10

PLANETOCENTRIC CONIC

C3 14.614 VHL 3.823 DLA 40.14 RAL 12.29 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 2.784 DPA -6.85 RAP 20.01 ECC 1.2405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.27 21 19 47 4089.97 -29.61 180.28 239.94 61.56 22 27 57 3490.0 -33.15 172.30
 119.73 4 4 45 2838.18 -29.60 84.97 239.93 61.54 4 52 3 2238.2 -33.14 76.99
 60.27 21 19 47 4089.97 -29.61 180.28 239.94 61.56 22 27 57 3490.0 -33.15 172.30
 119.73 4 4 45 2838.18 -29.60 84.97 239.93 61.54 4 52 3 2238.2 -33.14 76.99
 60.27 21 19 47 4089.97 -29.61 180.28 239.94 61.56 22 27 57 3490.0 -33.15 172.30
 119.73 4 4 45 2838.18 -29.60 84.97 239.93 61.54 4 52 3 2238.2 -33.14 76.99

DIFFERENTIAL CORRECTIONS

TDE .5187 TRA .0798 TC3 -.8699 BAU .1903
 RDE .5373 RRA .2884 RC3 -.4381 FAU .19284
 FDE10.2044 FRA 7.2040 FC-11.4243 BSP 3573
 BDE .7468 BRA .2992 BC3 .9740 FSP -6276

MID-COURSE EXECUTION ACCURACY

SGT 1035.0 SGR 1039.4 SG3 1950.6
 RRT .8712 RRF .9898 RTF .8520
 SGB 1466.9 R23 .2705 R13 .9524
 SG1 1418.9 SG2 372.2 THA 45.14

ORBIT DETERMINATION ACCURACY

ST 779.2 SR 823.0 SS 3817.6
 CRT .9891 CRS -.9980 CST -.9780
 LSA 3978.8 MSA 165.3 SSA 5.5
 EL1 1130.2 EL2 83.6 ALF 46.59

LAUNCH DATE DEC 13 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -.00 LOL 81.05 VL 27.808 GAL 3.73 AZL 85.96 HCA 202.66 SMA 128.96 ECC .15588 INC 4.0430 V1 30.254
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.538 GAP -.23 AZP 93.73 TAL 159.04 TAP 358.73 RCA 108.86 APO 149.06 V2 34.810
 RC 85.328 GL 31.02 GP -9.75 ZAL 58.35 ZAP 90.84 ETS 1.41 ZAE 163.47 ETE 219.77 ZAC 109.16 ETC 169.76 CLP -90.85

PLANETOCENTRIC CONIC

C3 14.417 VHL 3.797 DLA 39.57 RAL 13.04 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 2.765 DPA -6.59 RAP 17.07 ECC 1.2373
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.12 21 26 40 4075.97 -29.32 178.92 240.24 62.14 22 34 36 3476.0 -32.79 170.93
 118.88 4 3 51 2846.19 -29.31 85.47 240.24 62.13 4 51 17 2246.2 -32.78 77.48
 61.12 21 26 40 4075.97 -29.32 178.92 240.24 62.14 22 34 36 3476.0 -32.79 170.93
 118.88 4 3 51 2846.19 -29.31 85.47 240.24 62.13 4 51 17 2246.2 -32.78 77.48
 61.12 21 26 40 4075.97 -29.32 178.92 240.24 62.14 22 34 36 3476.0 -32.79 170.93
 118.88 4 3 51 2846.19 -29.31 85.47 240.24 62.13 4 51 17 2246.2 -32.78 77.48

DIFFERENTIAL CORRECTIONS

TDE .7334 TRA .2494 TC3 -1.1421 BAU .2315
 RDE .4806 RRA .2513 RC3 -.3721 FAU .19570
 FDE10.0173 FRA 7.3882 FC-11.7516 BSP 4260
 BDE .8768 BRA .3541 BC3 1.2012 FSP -6408

MID-COURSE EXECUTION ACCURACY

SGT 1488.4 SGR 920.8 SG3 1965.1
 RRT .9397 RRF .9836 RTF .9314
 SGB 1750.2 R23 .2281 R13 .9570
 SG1 1729.1 SG2 271.1 THA 31.02

ORBIT DETERMINATION ACCURACY

ST 1116.6 SR 740.1 SS 3757.3
 CRT .9975 CRS -.9969 CST -.9891
 LSA 3985.5 MSA 165.2 SSA 6.2
 EL1 1338.9 EL2 43.3 ALF 33.51

LAUNCH DATE DEC 13 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -.00 LOL 81.05 VL 27.810 GAL 3.78 AZL 86.05 HCA 205.82 SMA 128.97 ECC .15613 INC 3.9524 V1 30.254
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.533 GAP -.62 AZP 93.56 TAL 158.80 TAP 358.73 RCA 108.83 APO 149.11 V2 34.804
 RC 87.691 GL 30.36 GP -8.58 ZAL 57.83 ZAP 96.44 ETS .43 ZAE 160.79 ETE 208.54 ZAC 106.50 ETC 169.02 CLP -96.52

PLANETOCENTRIC CONIC

C3 14.323 VHL 3.785 DLA 39.12 RAL 13.76 RAD 6567.6 VEL 11.649 PTH 2.05 VHP 2.774 DPA -6.55 RAP 14.33 ECC 1.2357
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.80 21 32 47 4065.31 -29.06 177.87 240.68 62.57 22 40 33 3465.3 -32.48 169.87
 118.20 4 3 31 2853.92 -29.04 85.96 240.67 62.55 4 51 5 2253.9 -32.47 77.96
 61.80 21 32 47 4065.31 -29.06 177.87 240.68 62.57 22 40 33 3465.3 -32.48 169.87
 118.20 4 3 31 2853.92 -29.04 85.96 240.67 62.55 4 51 5 2253.9 -32.47 77.96
 61.80 21 32 47 4065.31 -29.06 177.87 240.68 62.57 22 40 33 3465.3 -32.48 169.87
 118.20 4 3 31 2853.92 -29.04 85.96 240.67 62.55 4 51 5 2253.9 -32.47 77.96

DIFFERENTIAL CORRECTIONS

TDE .9399 TRA .4213 TC3 -1.4163 BAU .2776
 RDE .4356 RRA .2182 RC3 -.3098 FAU .19470
 FDE 9.6932 FRA 7.4344 FC-11.7688 BSP 5426
 BDE 1.0359 BRA .4745 BC3 1.4498 FSP -6418

MID-COURSE EXECUTION ACCURACY

SGT 1962.1 SGR 819.3 SG3 1941.9
 RRT .9579 RRF .9745 RTF .9605
 SGB 2126.3 R23 .1494 R13 .9676
 SG1 2115.1 SG2 218.2 THA 22.05

ORBIT DETERMINATION ACCURACY

ST 1444.6 SR 671.7 SS 3668.7
 CRT .9997 CRS -.9953 CST -.9932
 LSA 3996.2 MSA 165.6 SSA 6.9
 EL1 1593.0 EL2 14.0 ALF 24.93

LAUNCH DATE DEC 13 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 473.433

RL 147.26 LAL -.00 LOL 81.05 VL 27.809 GAL 3.84 AZL 86.12 MCA 208.99 SMA 128.97 ECC .15660 INC 3.8804 V1 30.254
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.528 GAP 1.01 AZP 93.40 TAL 158.52 TAP 7.51 RCA 108.77 APO 149.16 V2 34.799
 RC 90.065 GL 29.76 GP -7.61 ZAL 57.29 ZAP 101.90 ETS 359.66 ZAE 157.63 ETE 200.85 ZAC 104.04 ETC 168.44 CLP-102.01

PLANETOCENTRIC CONIC

C3 14.308 VML 3.783 DLA 38.74 RAL 14.50 RAD 6567.6 VEL 11.649 PTH 2.04 VHP 2.807 OPA -6.63 RAP 11.81 ECC 1.2355
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.38 21 38 29 4057.16 -28.80 177.05 241.25 62.89 22 46 6 3457.2 -32.19 169.05
 117.62 4 3 41 2861.60 -28.79 86.46 241.24 62.88 4 51 23 2261.6 -32.18 78.46
 62.38 21 38 29 4057.16 -28.80 177.05 241.25 62.89 22 46 6 3457.2 -32.19 169.05
 117.62 4 3 41 2861.60 -28.79 86.46 241.24 62.88 4 51 23 2261.6 -32.18 78.46
 62.38 21 38 29 4057.16 -28.80 177.05 241.25 62.89 22 46 6 3457.2 -32.19 169.05
 117.62 4 3 41 2861.60 -28.79 86.46 241.24 62.88 4 51 23 2261.6 -32.18 78.46

DIFFERENTIAL CORRECTIONS

TOE 1.1365 TRA .5940 TC3-1.6813 BAU .3251
 RDE .3991 RRA .1885 RC3 -.2496 FAU .18963
 FDE 9.2677 FRA 7.3775 FC-11.4742 BSP 6772
 BOE 1.2046 BRA .6232 BC3 1.6997 FSP -6287

MID-COURSE EXECUTION ACCURACY

SGT 2431.5 SGR 731.5 SG3 1888.3
 RRT .9576 RRF .9614 RTF .9735
 SGB 2539.1 R23 .0786 R13 .9756
 SG1 2531.0 SG2 202.5 THA 16.18

ORBIT DETERMINATION ACCURACY

ST 1756.4 SR 614.4 SS 3561.5
 CRT .9997 CRS -.9931 CST -.9951
 LSA 4014.8 MSA 166.4 SSA 7.5
 EL1 1860.7 EL2 13.0 ALF 19.28

LAUNCH DATE DEC 13 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 479.681

RL 147.26 LAL -.00 LOL 81.05 VL 27.807 GAL 3.91 AZL 86.18 MCA 212.15 SMA 128.95 ECC .15727 INC 3.8214 V1 30.254
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.522 GAP 1.40 AZP 93.24 TAL 158.19 TAP 10.35 RCA 108.67 APO 149.23 V2 34.795
 RC 92.449 GL 29.20 GP -6.79 ZAL 56.73 ZAP 107.15 ETS 359.05 ZAE 154.31 ETE 195.56 ZAC 101.82 ETC 167.98 CLP-107.27

PLANETOCENTRIC CONIC

C3 14.360 VML 3.789 DLA 38.41 RAL 15.26 RAD 6567.6 VEL 11.651 PTH 2.05 VHP 2.863 OPA -6.75 RAP 9.56 ECC 1.2363
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.89 21 44 0 4050.87 -28.55 176.38 241.94 63.14 22 51 31 3450.9 -31.91 168.38
 117.11 4 4 15 2869.52 -28.54 86.97 241.93 63.13 4 52 5 2269.5 -31.90 78.98
 62.89 21 44 0 4050.87 -28.55 176.38 241.94 63.14 22 51 31 3450.9 -31.91 168.38
 117.11 4 4 15 2869.52 -28.54 86.97 241.93 63.13 4 52 5 2269.5 -31.90 78.98
 62.89 21 44 0 4050.87 -28.55 176.38 241.94 63.14 22 51 31 3450.9 -31.91 168.38
 117.11 4 4 15 2869.52 -28.54 86.97 241.93 63.13 4 52 5 2269.5 -31.90 78.98

DIFFERENTIAL CORRECTIONS

TOE 1.3193 TRA .7643 TC3-1.9300 BAU .3724
 RDE .3685 RRA .1609 RC3 -.1943 FAU .18232
 FDE 8.7458 FRA 7.2147 FC-10.9914 BSP 8177
 BOE 1.3698 BRA .7810 BC3 1.9398 FSP -6093

MID-COURSE EXECUTION ACCURACY

SGT 2879.7 SGR 654.6 SG3 1808.3
 RRT .9467 RRF .9427 RTF .9804
 SGB 2953.2 R23 .0306 R13 .9810
 SG1 2946.0 SG2 206.2 THA 12.21

ORBIT DETERMINATION ACCURACY

ST 2043.6 SR 564.9 SS 3431.2
 CRT .9985 CRS -.9901 CST -.9962
 LSA 4030.0 MSA 167.2 SSA 8.1
 EL1 2120.1 EL2 29.6 ALF 15.43

LAUNCH DATE DEC 13 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 485.908

RL 147.26 LAL -.00 LOL 81.05 VL 27.803 GAL 4.00 AZL 86.23 MCA 215.31 SMA 128.92 ECC .15814 INC 3.7720 V1 30.254
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.516 GAP 1.78 AZP 93.08 TAL 157.83 TAP 13.14 RCA 108.53 APO 149.31 V2 34.791
 RC 94.840 GL 28.66 GP -6.08 ZAL 56.12 ZAP 112.13 ETS 358.56 ZAE 151.05 ETE 191.83 ZAC 99.89 ETC 167.61 CLP-112.26

PLANETOCENTRIC CONIC

C3 14.474 VML 3.804 DLA 38.11 RAL 16.06 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.940 OPA -6.86 RAP 7.60 ECC 1.2382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.35 21 49 30 4045.95 -28.29 175.82 242.74 63.33 22 56 56 3445.9 -31.63 167.84
 116.65 4 5 9 2877.94 -28.28 87.51 242.73 63.32 4 53 7 2277.9 -31.62 79.53
 63.35 21 49 30 4045.95 -28.29 175.82 242.74 63.33 22 56 56 3445.9 -31.63 167.84
 116.65 4 5 9 2877.94 -28.28 87.51 242.73 63.32 4 53 7 2277.9 -31.62 79.53
 63.35 21 49 30 4045.95 -28.29 175.82 242.74 63.33 22 56 56 3445.9 -31.63 167.84
 116.65 4 5 9 2877.94 -28.28 87.51 242.73 63.32 4 53 7 2277.9 -31.62 79.53

DIFFERENTIAL CORRECTIONS

TOE 1.4870 TRA .9311 TC3-2.1572 BAU .4183
 RDE .3435 RRA .1356 RC3 -.1434 FAU .17306
 FDE 8.1716 FRA 6.9800 FC-10.3513 BSP 9560
 BOE 1.5262 BRA .9409 BC3 2.1620 FSP -5834

MID-COURSE EXECUTION ACCURACY

SGT 3299.3 SGR 589.0 SG3 1710.6
 RRT .9264 RRF .9171 RTF .9843
 SGB 3351.5 R23 .0031 R13 .9844
 SG1 3344.3 SG2 218.8 THA 9.43

ORBIT DETERMINATION ACCURACY

ST 2302.9 SR 523.2 SS 3288.2
 CRT .9963 CRS -.9863 CST -.9968
 LSA 4044.9 MSA 167.9 SSA 8.6
 EL1 2361.2 EL2 44.0 ALF 12.76

LAUNCH DATE DEC 13 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 492.113

RL 147.26 LAL -.00 LOL 81.05 VL 27.797 GAL 4.10 AZL 86.27 MCA 218.48 SMA 128.88 ECC .15922 INC 3.7298 V1 30.254
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.509 GAP 2.17 AZP 92.92 TAL 157.41 TAP 15.89 RCA 108.36 APO 149.40 V2 34.788
 RC 97.236 GL 28.12 GP -5.47 ZAL 55.47 ZAP 116.82 ETS 358.18 ZAE 147.93 ETE 189.13 ZAC 98.27 ETC 167.33 CLP-116.95

PLANETOCENTRIC CONIC

C3 14.645 VML 3.827 DLA 37.83 RAL 16.91 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 3.035 OPA -6.94 RAP 5.95 ECC 1.2410
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.79 21 55 3 4042.26 -28.02 175.37 243.66 63.47 23 2 26 3442.3 -31.34 167.40
 116.21 4 6 22 2886.85 -28.01 88.09 243.66 63.46 4 54 29 2286.9 -31.33 80.13
 63.79 21 55 3 4042.26 -28.02 175.37 243.66 63.47 23 2 26 3442.3 -31.34 167.40
 116.21 4 6 22 2886.85 -28.01 88.09 243.66 63.46 4 54 29 2286.9 -31.33 80.13
 63.79 21 55 3 4042.26 -28.02 175.37 243.66 63.47 23 2 26 3442.3 -31.34 167.40
 116.21 4 6 22 2886.85 -28.01 88.09 243.66 63.46 4 54 29 2286.9 -31.33 80.13

DIFFERENTIAL CORRECTIONS

TOE 1.6400 TRA 1.0948 TC3-2.3575 BAU .4620
 RDE .3236 RRA .1128 RC3 -.0972 FAU .16234
 FDE 7.5797 FRA 6.7037 FC3-9.5964 BSP 10877
 BOE 1.6716 BRA 1.1006 BC3 2.3595 FSP -5524

MID-COURSE EXECUTION ACCURACY

SGT 3686.6 SGR 534.9 SG3 1603.0
 RRT .8966 RRF .8831 RTF .9867
 SGB 3725.2 R23 -.0116 R13 .9866
 SG1 3717.8 SG2 234.9 THA 7.44

ORBIT DETERMINATION ACCURACY

ST 2533.7 SR 488.8 SS 3139.7
 CRT .9931 CRS -.9815 CST -.9971
 LSA 4060.5 MSA 168.7 SSA 9.1
 EL1 2579.8 EL2 56.4 ALF 10.85

LAUNCH DATE DEC 13 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 498.298

RL 147.26 LAL -.00 LOL 81.05 VL 27.790 GAL 4.22 AZL 86.31 MCA 221.64 SMA 128.83 ECC .16051 INC 3.6930 V1 30.254
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.501 GAP 2.54 AZP 92.76 TAL 156.96 TAP 18.60 RCA 108.15 APO 149.51 V2 34.786
 RC 99.636 GL 27.57 GP -4.93 ZAL 54.78 ZAP 121.20 ETS 357.89 ZAE 145.03 ETE 187.12 ZAC 96.97 ETC 167.12 CLP-121.33

PLANETOCENTRIC CONIC

C3 14.872 VML 3.856 OLA 37.57 RAL 17.81 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 3.146 DPA -6.95 RAP 4.62 ECC 1.2448
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.21 22 0 47 4039.44 -27.74 174.97 244.69 63.58 23 8 6 3439.4 -31.04 167.03
 115.79 4 7 48 2896.52 -27.73 88.72 244.69 63.57 4 56 5 2296.5 -31.03 80.78
 64.21 22 0 47 4039.44 -27.74 174.97 244.69 63.58 23 8 6 3439.4 -31.04 167.03
 115.79 4 7 48 2896.52 -27.73 88.72 244.69 63.57 4 56 5 2296.5 -31.03 80.78
 64.21 22 0 47 4039.44 -27.74 174.97 244.69 63.58 23 8 6 3439.4 -31.04 167.03
 115.79 4 7 48 2896.52 -27.73 88.72 244.69 63.57 4 56 5 2296.5 -31.03 80.78

DIFFERENTIAL CORRECTIONS

TDE 1.7788 TRA 1.2558 TC3-2.5279 BAU .5027
 RDE .3084 RRA .0925 RC3 -.0562 FAU .15084
 FDE 6.9923 FRA 6.4054 FC3-8.7807 BSP 12102
 BOE 1.8053 BRA 1.2592 BC3 2.5286 FSP -5185

MID-COURSE EXECUTION ACCURACY

SGT 4040.6 SGR 491.8 SG3 1491.3
 RRT .8572 RRF .8405 RTF .9882
 SGB 4070.4 R23 -.0193 R13 .9881
 SG1 4062.6 SG2 251.9 TMA 5.98

ORBIT DETERMINATION ACCURACY

ST 2736.1 SR 461.1 SS 2989.5
 CRT .9889 CRS -.9756 CST -.9974
 LSA 4075.2 MSA 169.7 SSA 9.6
 EL1 2773.9 EL2 67.6 ALF 9.47

LAUNCH DATE DEC 13 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 504.461

RL 147.26 LAL -.00 LOL 81.05 VL 27.781 GAL 4.34 AZL 86.34 MCA 224.80 SMA 128.77 ECC .16200 INC 3.6606 V1 30.254
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.494 GAP 2.92 AZP 92.60 TAL 156.47 TAP 21.27 RCA 107.91 APO 149.63 V2 34.784
 RC 102.038 GL 27.02 GP -4.47 ZAL 54.05 ZAP 125.27 ETS 357.66 ZAE 142.36 ETE 185.59 ZAC 95.99 ETC 166.97 CLP-125.39

PLANETOCENTRIC CONIC

C3 15.156 VML 3.893 OLA 37.31 RAL 18.76 RAD 6567.6 VEL 11.685 PTH 2.06 VHP 3.273 DPA -6.90 RAP 3.60 ECC 1.2494
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.62 22 6 41 4037.47 -27.43 174.64 245.83 63.66 23 13 58 3437.5 -30.73 166.72
 115.38 4 9 28 2906.95 -27.42 89.40 245.83 63.65 4 57 55 2307.0 -30.72 81.48
 64.62 22 6 41 4037.47 -27.43 174.64 245.83 63.66 23 13 58 3437.5 -30.73 166.72
 115.38 4 9 28 2906.95 -27.42 89.40 245.83 63.65 4 57 55 2307.0 -30.72 81.48
 64.62 22 6 41 4037.47 -27.43 174.64 245.83 63.66 23 13 58 3437.5 -30.73 166.72
 115.38 4 9 28 2906.95 -27.42 89.40 245.83 63.65 4 57 55 2307.0 -30.72 81.48

DIFFERENTIAL CORRECTIONS

TDE 1.9057 TRA 1.4162 TC3-2.6641 BAU .5398
 RDE .2976 RRA .0746 RC3 -.0202 FAU .13864
 FDE 6.4344 FRA 6.1076 FC3-7.9193 BSP 13194
 BOE 1.9288 BRA 1.4182 BC3 2.6642 FSP -4816

MID-COURSE EXECUTION ACCURACY

SGT 4363.0 SGR 459.5 SG3 1380.8
 RRT .8094 RRF .7904 RTF .9890
 SGB 4387.1 R23 -.0225 R13 .9889
 SG1 4378.9 SG2 268.9 TMA 4.89

ORBIT DETERMINATION ACCURACY

ST 2913.4 SR 439.9 SS 2844.5
 CRT .9838 CRS -.9689 CST -.9975
 LSA 4091.9 MSA 170.8 SSA 10.0
 EL1 2945.4 EL2 78.0 ALF 8.46

LAUNCH DATE DEC 13 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 510.602

RL 147.26 LAL -.00 LOL 81.05 VL 27.771 GAL 4.49 AZL 86.37 MCA 227.96 SMA 128.70 ECC .16370 INC 3.6315 V1 30.254
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.485 GAP 3.30 AZP 92.43 TAL 155.93 TAP 23.89 RCA 107.63 APO 149.77 V2 34.783
 RC 104.441 GL 26.45 GP -4.06 ZAL 53.27 ZAP 129.04 ETS 357.49 ZAE 139.93 ETE 184.40 ZAC 95.30 ETC 166.86 CLP-129.16

PLANETOCENTRIC CONIC

C3 15.497 VML 3.937 OLA 37.05 RAL 19.75 RAD 6567.6 VEL 11.700 PTH 2.06 VHP 3.412 DPA -6.78 RAP 2.87 ECC 1.2550
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.04 22 12 48 4036.17 -27.11 174.36 247.07 63.72 23 20 4 3436.2 -30.40 166.46
 114.96 4 11 17 2918.26 -27.10 90.14 247.07 63.70 4 59 55 2318.3 -30.39 82.24
 65.04 22 12 48 4036.17 -27.11 174.36 247.07 63.72 23 20 4 3436.2 -30.40 166.46
 114.96 4 11 17 2918.26 -27.10 90.14 247.07 63.70 4 59 55 2318.3 -30.39 82.24
 65.04 22 12 48 4036.17 -27.11 174.36 247.07 63.72 23 20 4 3436.2 -30.40 166.46
 114.96 4 11 17 2918.26 -27.10 90.14 247.07 63.70 4 59 55 2318.3 -30.39 82.24

DIFFERENTIAL CORRECTIONS

TDE 2.0184 TRA 1.5738 TC3-2.7742 BAU .5747
 RDE .2904 RRA .0587 RC3 .0097 FAU .12716
 FDE 5.8982 FRA 5.8031 FC3-7.1037 BSP 14227
 BOE 2.0392 BRA 1.5749 BC3 2.7742 FSP -4470

MID-COURSE EXECUTION ACCURACY

SGT 4651.7 SGR 436.1 SG3 1272.7
 RRT .7554 RRF .7346 RTF .9896
 SGB 4672.1 R23 -.0241 R13 .9895
 SG1 4663.4 SG2 285.0 TMA 4.07

ORBIT DETERMINATION ACCURACY

ST 3062.1 SR 423.9 SS 2698.9
 CRT .9779 CRS -.9613 CST -.9976
 LSA 4100.0 MSA 172.0 SSA 10.5
 EL1 3090.0 EL2 87.7 ALF 7.72

LAUNCH DATE DEC 13 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 516.722

RL 147.26 LAL -.00 LOL 81.05 VL 27.760 GAL 4.65 AZL 86.39 MCA 231.12 SMA 128.62 ECC .16561 INC 3.6052 V1 30.254
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.477 GAP 3.68 AZP 92.26 TAL 155.36 TAP 26.48 RCA 107.32 APO 149.92 V2 34.783
 RC 106.844 GL 25.87 GP -3.71 ZAL 52.45 ZAP 132.54 ETS 357.37 ZAE 137.73 ETE 183.47 ZAC 94.90 ETC 166.79 CLP-132.65

PLANETOCENTRIC CONIC

C3 15.898 VML 3.987 OLA 36.79 RAL 20.79 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 3.564 DPA -6.60 RAP 2.42 ECC 1.2616
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.46 22 19 10 4035.42 -26.76 174.10 248.42 63.75 23 26 26 3435.4 -30.06 166.23
 114.54 4 13 13 2930.56 -26.75 90.94 248.41 63.74 5 2 4 2330.6 -30.04 83.07
 65.46 22 19 10 4035.42 -26.76 174.10 248.42 63.75 23 26 26 3435.4 -30.06 166.23
 114.54 4 13 13 2930.56 -26.75 90.94 248.41 63.74 5 2 4 2330.6 -30.04 83.07
 65.46 22 19 10 4035.42 -26.76 174.10 248.42 63.75 23 26 26 3435.4 -30.06 166.23
 114.54 4 13 13 2930.56 -26.75 90.94 248.41 63.74 5 2 4 2330.6 -30.04 83.07

DIFFERENTIAL CORRECTIONS

TDE 2.1202 TRA 1.7316 TC3-2.8552 BAU .6069
 RDE .2866 RRA .0449 RC3 .0343 FAU .11607
 FDE 5.4002 FRA 5.5116 FC3-6.3210 BSP 15172
 BOE 2.1395 BRA 1.7322 BC3 2.8554 FSP -4139

MID-COURSE EXECUTION ACCURACY

SGT 4911.4 SGR 420.6 SG3 1170.2
 RRT .6986 RRF .6769 RTF .9899
 SGB 4929.3 R23 -.0242 R13 .9899
 SG1 4920.2 SG2 300.4 TMA 3.44

ORBIT DETERMINATION ACCURACY

ST 3186.9 SR 412.6 SS 2558.7
 CRT .9715 CRS -.9532 CST -.9977
 LSA 4104.0 MSA 173.5 SSA 10.9
 EL1 3212.0 EL2 97.1 ALF 7.17

LAUNCH DATE DEC 13 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 522.818

RL 147.26 LAL -.00 LOL 81.05 VL 27.748 GAL 4.82 AZL 86.42 HCA 234.28 SMA 128.54 ECC .16773 INC 3.5812 V1 30.254
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.468 GAP 4.06 AZP 92.09 TAL 154.75 TAP 29.04 RCA 106.98 APO 150.10 V2 34.784
 RC 109.246 GL 25.28 GP -3.40 ZAL 51.59 ZAP 135.78 ETS 357.27 ZAE 135.75 ETE 182.73 ZAC 94.75 ETC 166.76 CLP-135.88

PLANETOCENTRIC CONIC

C3 16.362 VHL 4.045 DLA 36.53 RAL 21.88 RAD 6567.7 VEL 11.737 PTH 2.07 VHP 3.727 DPA -6.34 RAP 2.23 ECC 1.2693
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.89 22 25 47 4035.24 -26.39 173.88 249.85 63.77 23 33 2 3435.2 -29.68 166.04
 114.11 4 15 17 2943.85 -26.37 91.81 249.84 63.75 5 4 20 2343.8 -29.67 83.97
 65.89 22 25 47 4035.24 -26.39 173.88 249.85 63.77 23 33 2 3435.2 -29.68 166.04
 114.11 4 15 17 2943.85 -26.37 91.81 249.84 63.75 5 4 20 2343.8 -29.67 83.97
 65.89 22 25 47 4035.24 -26.39 173.88 249.85 63.77 23 33 2 3435.2 -29.68 166.04
 114.11 4 15 17 2943.85 -26.37 91.81 249.84 63.75 5 4 20 2343.8 -29.67 83.97

DIFFERENTIAL CORRECTIONS

TDE 2.2125 TRA 1.8910 TC3-2.9085 BAU .6363
 RDE .2859 RRA .0332 RC3 .0540 FAU .10557
 FDE 4.9443 FRA 5.2383 FC3-5.5859 BSP 16027
 BOE 2.2309 BRA 1.8913 BC3 2.9090 FSP -3821

MID-COURSE EXECUTION ACCURACY

SGT 5144.9 SGR 411.5 SG3 1074.7
 RRT .6431 RRF .6211 RTF .9901
 SGB 5161.3 R23 -.0235 R13 .9900
 SG1 5151.7 SG2 314.7 THA 2.96

ORBIT DETERMINATION ACCURACY

ST 3290.4 SR 405.4 SS 2425.5
 CRT .9647 CRS -.9447 CST -.9977
 LSA 4104.0 MSA 175.4 SSA 11.3
 EL1 3313.6 EL2 106.1 ALF 6.78

LAUNCH DATE DEC 13 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 528.892

RL 147.26 LAL -.00 LOL 81.05 VL 27.734 GAL 5.01 AZL 86.44 HCA 237.44 SMA 128.45 ECC .17008 INC 3.5590 V1 30.254
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.460 GAP 4.45 AZP 91.92 TAL 154.11 TAP 31.55 RCA 106.60 APO 150.29 V2 34.785
 RC 111.645 GL 24.66 GP -3.12 ZAL 50.69 ZAP 138.78 ETS 357.21 ZAE 133.98 ETE 182.14 ZAC 94.85 ETC 166.76 CLP-138.88

PLANETOCENTRIC CONIC

C3 16.894 VHL 4.110 DLA 36.26 RAL 23.01 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 3.900 DPA -6.02 RAP 2.27 ECC 1.2780
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.34 22 32 41 4035.43 -25.99 173.68 251.38 63.77 23 39 57 3435.4 -29.29 165.87
 113.66 4 17 21 2958.33 -25.97 92.75 251.37 63.76 5 6 40 2358.3 -29.28 84.94
 66.34 22 32 41 4035.43 -25.99 173.68 251.38 63.77 23 39 57 3435.4 -29.29 165.87
 113.66 4 17 21 2958.33 -25.97 92.75 251.37 63.76 5 6 40 2358.3 -29.28 84.94
 66.34 22 32 41 4035.43 -25.99 173.68 251.38 63.77 23 39 57 3435.4 -29.29 165.87
 113.66 4 17 21 2958.33 -25.97 92.75 251.37 63.76 5 6 40 2358.3 -29.28 84.94

DIFFERENTIAL CORRECTIONS

TDE 2.2961 TRA 2.0531 TC3-2.9362 BAU .6634
 RDE .2879 RRA .0234 RC3 .0692 FAU .09577
 FDE 4.5282 FRA 4.9839 FC3-4.9078 BSP 16008
 BOE 2.3141 BRA 2.0532 BC3 2.9371 FSP -3524

MID-COURSE EXECUTION ACCURACY

SGT 5354.4 SGR 407.3 SG3 986.5
 RRT .5917 RRF .5702 RTF .9900
 SGB 5369.8 R23 -.0222 R13 .9900
 SG1 5359.8 SG2 328.0 THA 2.59

ORBIT DETERMINATION ACCURACY

ST 3374.0 SR 401.5 SS 2298.9
 CRT .9576 CRS -.9362 CST -.9977
 LSA 4098.5 MSA 177.6 SSA 11.7
 EL1 3395.8 EL2 114.9 ALF 6.51

LAUNCH DATE DEC 13 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 534.942

RL 147.26 LAL -.00 LOL 81.05 VL 27.720 GAL 5.22 AZL 86.46 HCA 240.60 SMA 128.35 ECC .17266 INC 3.5383 V1 30.254
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.451 GAP 4.83 AZP 91.74 TAL 153.44 TAP 34.04 RCA 106.19 APO 150.51 V2 34.787
 RC 114.042 GL 23.08 GP -2.88 ZAL 49.76 ZAP 141.57 ETS 357.16 ZAE 132.39 ETE 181.66 ZAC 95.16 ETC 166.77 CLP-141.66

PLANETOCENTRIC CONIC

C3 17.499 VHL 4.183 DLA 35.99 RAL 24.17 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 4.084 DPA -5.65 RAP 2.52 ECC 1.2880
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.80 22 39 50 4036.09 -25.56 173.50 252.99 63.76 23 47 6 3436.1 -28.86 165.72
 113.20 4 19 29 2973.92 -25.55 93.77 252.99 63.75 5 9 3 2373.9 -28.86 85.99
 66.80 22 39 50 4036.09 -25.56 173.50 252.99 63.76 23 47 6 3436.1 -28.86 165.72
 113.20 4 19 29 2973.92 -25.55 93.77 252.99 63.75 5 9 3 2373.9 -28.86 85.99
 66.80 22 39 50 4036.09 -25.56 173.50 252.99 63.76 23 47 6 3436.1 -28.86 165.72
 113.20 4 19 29 2973.92 -25.55 93.77 252.99 63.75 5 9 3 2373.9 -28.86 85.99

DIFFERENTIAL CORRECTIONS

TDE 2.3756 TRA 2.2218 TC3-2.9337 BAU .6866
 RDE .2924 RRA .0154 RC3 .0807 FAU .08632
 FDE 4.1582 FRA 4.7554 FC3-4.2707 BSP 17452
 BOE 2.3935 BRA 2.2218 BC3 2.9348 FSP -3234

MID-COURSE EXECUTION ACCURACY

SGT 5545.7 SGR 407.0 SG3 906.2
 RRT .5473 RRF .5270 RTF .9899
 SGB 5560.6 R23 -.0202 R13 .9898
 SG1 5550.2 SG2 340.3 THA 2.31

ORBIT DETERMINATION ACCURACY

ST 3444.6 SR 400.6 SS 2182.9
 CRT .9507 CRS -.9279 CST -.9977
 LSA 4093.7 MSA 180.0 SSA 12.0
 EL1 3465.6 EL2 123.5 ALF 6.32

LAUNCH DATE DEC 13 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 540.966

RL 147.26 LAL -.00 LOL 81.05 VL 27.705 GAL 5.44 AZL 86.48 HCA 243.77 SMA 128.24 ECC .17549 INC 3.5189 V1 30.254
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.442 GAP 5.23 AZP 91.56 TAL 152.73 TAP 36.49 RCA 105.74 APO 150.75 V2 34.790
 RC 116.435 GL 23.39 GP -2.67 ZAL 48.80 ZAP 144.16 ETS 357.13 ZAE 130.97 ETE 181.27 ZAC 95.66 ETC 166.80 CLP-144.24

PLANETOCENTRIC CONIC

C3 18.184 VHL 4.264 DLA 35.70 RAL 25.36 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.276 DPA -5.22 RAP 2.96 ECC 1.2993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.29 22 47 18 4036.97 -25.10 173.32 254.69 63.74 23 54 35 3437.0 -28.42 165.58
 112.71 4 21 33 2990.91 -25.09 94.88 254.68 63.73 5 11 24 2390.9 -28.41 87.14
 67.29 22 47 18 4036.97 -25.10 173.32 254.69 63.74 23 54 35 3437.0 -28.42 165.58
 112.71 4 21 33 2990.91 -25.09 94.88 254.68 63.73 5 11 24 2390.9 -28.41 87.14
 67.29 22 47 18 4036.97 -25.10 173.32 254.69 63.74 23 54 35 3437.0 -28.42 165.58
 112.71 4 21 33 2990.91 -25.09 94.88 254.68 63.73 5 11 24 2390.9 -28.41 87.14

DIFFERENTIAL CORRECTIONS

TDE 2.4455 TRA 2.3927 TC3-2.9161 BAU .7092
 RDE .2989 RRA .0089 RC3 .0881 FAU .07804
 FDE 3.8163 FRA 4.5396 FC3-3.7157 BSP 18100
 BOE 2.4637 BRA 2.3928 BC3 2.9174 FSP -2984

MID-COURSE EXECUTION ACCURACY

SGT 5714.5 SGR 408.8 SG3 832.1
 RRT .5099 RRF .4907 RTF .9897
 SGB 5729.1 R23 -.0184 R13 .9896
 SG1 5718.3 SG2 351.4 THA 2.10

ORBIT DETERMINATION ACCURACY

ST 3494.8 SR 401.6 SS 2069.8
 CRT .9438 CRS -.9196 CST -.9977
 LSA 4077.4 MSA 182.9 SSA 12.3
 EL1 3515.3 EL2 132.0 ALF 6.20

LAUNCH DATE DEC 13 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC
 RL 147.26 LAL -.00 LOL 81.05 VL 27.689 GAL 5.69 AZL 86.50 HCA 246.93 SMA 128.13 ECC .17857 INC 3.5004 V1 30.254
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.434 GAP 5.63 AZP 91.37 TAL 151.99 TAP 38.92 RCA 105.25 APO 151.01 V2 34.794
 RC 118.823 GL 22.73 GP -2.48 ZAL 47.81 ZAP 146.58 ETS 357.11 ZAE 129.69 ETE 180.95 ZAC 96.34 ETC 166.83 CLP-146.66

PLANETOCENTRIC CONIC
 C3 18.955 VHL 4.354 DLA 35.40 RAL 26.59 RAD 6567.8 VEL 11.846 PTH 2.10 VHP 4.479 DPA -4.74 RAP 3.56 ECC 1.3120
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.80 22 55 2 4038.15 -24.62 173.15 256.46 63.71 24 2 20 3438.1 -27.94 165.45
 112.20 4 23 34 3009.24 -24.60 96.07 256.46 63.70 5 13 43 2409.2 -27.93 88.37
 67.80 22 55 2 4038.15 -24.62 173.15 256.46 63.71 24 2 20 3438.1 -27.94 165.45
 112.20 4 23 34 3009.24 -24.60 96.07 256.46 63.70 5 13 43 2409.2 -27.93 88.37
 67.80 22 55 2 4038.15 -24.62 173.15 256.46 63.71 24 2 20 3438.1 -27.94 165.45
 112.20 4 23 34 3009.24 -24.60 96.07 256.46 63.70 5 13 43 2409.2 -27.93 88.37

DIFFERENTIAL CORRECTIONS
 TOE 2.5106 TRA 2.5704 TC3-2.8776 BAU .7296 SGT 5866.6 SGR 412.3 SG3 764.9 ST 3531.6 SR 404.3 SS 1964.4
 RDE .3072 RRA .0041 RC3 .0925 FAU .07039 RRT .4802 RRF .4626 RTF .9894 CRT .9371 CRS -.9118 CST -.9977
 FDE 3.5096 FRA 4.3443 FC3-3.2150 BSP 18684 SGB 5881.1 R23 -.0164 R13 .9894 LSA 4057.0 MSA 186.0 SSA 12.5
 BOE 2.5293 BRA 2.5704 BC3 2.8791 FSP -2751 SG1 5869.9 SG2 361.4 THA 1.94 EL1 3551.9 EL2 140.3 ALF 6.13

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 13 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC
 RL 147.26 LAL -.00 LOL 81.05 VL 27.672 GAL 5.95 AZL 86.52 HCA 250.09 SMA 128.02 ECC .18192 INC 3.4829 V1 30.254
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.425 GAP 6.03 AZP 91.19 TAL 151.23 TAP 41.32 RCA 104.73 APO 151.31 V2 34.798
 RC 121.206 GL 22.06 GP -2.32 ZAL 46.79 ZAP 148.84 ETS 357.09 ZAE 128.55 ETE 180.69 ZAC 97.18 ETC 166.88 CLP-148.92

PLANETOCENTRIC CONIC
 C3 19.823 VHL 4.452 DLA 35.10 RAL 27.83 RAD 6567.8 VEL 11.883 PTH 2.11 VHP 4.691 DPA -4.21 RAP 4.32 ECC 1.3262
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.34 23 3 4 4039.54 -24.10 172.98 258.31 63.68 24 10 23 3439.5 -27.43 165.32
 111.66 4 25 29 3029.04 -24.09 97.36 258.30 63.67 5 15 58 2429.0 -27.42 89.69
 68.34 23 3 4 4039.54 -24.10 172.98 258.31 63.68 24 10 23 3439.5 -27.43 165.32
 111.66 4 25 29 3029.04 -24.09 97.36 258.30 63.67 5 15 58 2429.0 -27.42 89.69
 68.34 23 3 4 4039.54 -24.10 172.98 258.31 63.68 24 10 23 3439.5 -27.43 165.32
 111.66 4 25 29 3029.04 -24.09 97.36 258.30 63.67 5 15 58 2429.0 -27.42 89.69

DIFFERENTIAL CORRECTIONS
 TOE 2.5712 TRA 2.7558 TC3-2.8201 BAU .7478 SGT 6003.5 SGR 416.7 SG3 703.8 ST 3555.9 SR 408.2 SS 1865.5
 RDE .3172 RRA .0008 RC3 .0942 FAU .06334 RRT .4579 RRF .4420 RTF .9890 CRT .9307 CRS -.9043 CST -.9977
 FDE 3.2332 FRA 4.1678 FC3-2.7662 BSP 19212 SGB 6017.9 R23 -.0142 R13 .9890 LSA 4031.8 MSA 189.5 SSA 12.7
 BOE 2.5907 BRA 2.7558 BC3 2.8216 FSP -2539 SG1 6006.5 SG2 370.3 THA 1.83 EL1 3576.2 EL2 148.5 ALF 6.11

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 13 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC
 RL 147.26 LAL -.00 LOL 81.05 VL 27.654 GAL 6.23 AZL 86.53 HCA 253.26 SMA 127.90 ECC .18556 INC 3.4660 V1 30.254
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.417 GAP 6.45 AZP 91.00 TAL 150.44 TAP 43.70 RCA 104.16 APO 151.63 V2 34.803
 RC 123.581 GL 21.37 GP -2.17 ZAL 45.75 ZAP 150.97 ETS 357.07 ZAE 127.53 ETE 180.47 ZAC 98.15 ETC 166.93 CLP-151.04

PLANETOCENTRIC CONIC
 C3 20.798 VHL 4.560 DLA 34.78 RAL 29.09 RAD 6567.8 VEL 11.924 PTH 2.12 VHP 4.913 DPA -3.65 RAP 5.20 ECC 1.3423
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.91 23 11 23 4041.10 -23.55 172.81 260.23 63.64 24 18 44 3441.1 -26.90 165.19
 111.09 4 27 14 3050.39 -23.54 98.74 260.22 63.63 5 18 4 2450.4 -26.89 91.12
 68.91 23 11 23 4041.10 -23.55 172.81 260.23 63.64 24 18 44 3441.1 -26.90 165.19
 111.09 4 27 14 3050.39 -23.54 98.74 260.22 63.63 5 18 4 2450.4 -26.89 91.12
 68.91 23 11 23 4041.10 -23.55 172.81 260.23 63.64 24 18 44 3441.1 -26.90 165.19
 111.09 4 27 14 3050.39 -23.54 98.74 260.22 63.63 5 18 4 2450.4 -26.89 91.12

DIFFERENTIAL CORRECTIONS
 TOE 2.6310 TRA 2.9526 TC3-2.7415 BAU .7627 SGT 6129.9 SGR 421.8 SG3 648.9 ST 3573.2 SR 413.0 SS 1775.8
 RDE .3287 RRA -.0008 RC3 .0939 FAU .05668 RRT .4430 RRF .4290 RTF .9886 CRT .9246 CRS -.8973 CST -.9978
 FDE 2.9893 FRA 4.0124 FC3-2.3596 BSP 19624 SGB 6144.4 R23 -.0118 R13 .9886 LSA 4006.8 MSA 193.2 SSA 12.9
 BOE 2.6515 BRA 2.9526 BC3 2.7431 FSP -2334 SG1 6132.8 SG2 378.0 THA 1.75 EL1 3593.6 EL2 156.4 ALF 6.11

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 13 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC
 RL 147.26 LAL -.00 LOL 81.05 VL 27.636 GAL 6.53 AZL 86.55 HCA 256.42 SMA 127.77 ECC .18950 INC 3.4496 V1 30.254
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.409 GAP 6.88 AZP 90.81 TAL 149.63 TAP 46.05 RCA 103.56 APO 151.99 V2 34.808
 RC 125.948 GL 20.68 GP -2.04 ZAL 44.70 ZAP 152.97 ETS 357.05 ZAE 126.61 ETE 180.30 ZAC 99.25 ETC 166.97 CLP-153.04

PLANETOCENTRIC CONIC
 C3 21.890 VHL 4.679 DLA 34.45 RAL 30.37 RAD 6567.9 VEL 11.970 PTH 2.13 VHP 5.146 DPA -3.05 RAP 6.21 ECC 1.3603
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.51 23 19 59 4042.75 -22.98 172.62 262.21 63.60 24 27 22 3442.7 -26.33 165.05
 110.49 4 28 48 3073.39 -22.96 100.24 262.20 63.59 5 20 1 2473.4 -26.32 92.66
 69.51 23 19 59 4042.75 -22.98 172.62 262.21 63.60 24 27 22 3442.7 -26.33 165.05
 110.49 4 28 48 3073.39 -22.96 100.24 262.20 63.59 5 20 1 2473.4 -26.32 92.66
 69.51 23 19 59 4042.75 -22.98 172.62 262.21 63.60 24 27 22 3442.7 -26.33 165.05
 110.49 4 28 48 3073.39 -22.96 100.24 262.20 63.59 5 20 1 2473.4 -26.32 92.66

DIFFERENTIAL CORRECTIONS
 TOE 2.6841 TRA 3.1555 TC3-2.6554 BAU .7776 SGT 6239.9 SGR 426.7 SG3 598.5 ST 3575.7 SR 418.1 SS 1688.8
 RDE .3414 RRA -.0011 RC3 .0914 FAU .05089 RRT .4333 RRF .4210 RTF .9882 CRT .9186 CRS -.8905 CST -.9978
 FDE 2.7642 FRA 3.8672 FC3-2.0126 BSP 20076 SGB 6254.5 R23 -.0098 R13 .9882 LSA 3971.6 MSA 197.1 SSA 13.0
 BOE 2.7057 BRA 3.1555 BC3 2.6569 FSP -2160 SG1 6242.6 SG2 384.4 THA 1.70 EL1 3596.3 EL2 164.2 ALF 6.14

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 13 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 570.660

RL 147.26 LAL -.00 LOL 81.05 VL 27.617 GAL 6.86 AZL 86.57 HCA 259.59 SMA 127.65 ECC .19376 INC 3.4337 V1 30.254
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.401 GAP 7.31 AZP 90.62 TAL 148.81 TAP 48.39 RCA 102.91 APO 152.38 V2 34.815
 RC 128.306 GL 19.97 GP -1.92 ZAL 43.63 ZAP 154.87 ETS 357.02 ZAE 125.78 ETE 180.16 ZAC 100.45 ETC 167.01 CLP-154.94

PLANETOCENTRIC CONIC

C3 23.116 VHL 4.808 DLA 34.11 RAL 31.65 RAD 6567.9 VEL 12.021 PTH 2.15 VHP 5.389 DPA -2.42 RAP 7.32 ECC 1.3804
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.14 23 28 54 4044.40 -22.37 172.42 264.26 63.55 24 36 19 3444.4 -25.73 164.89
 109.86 4 30 7 3098.18 -22.35 101.85 264.25 63.54 5 21 45 2498.2 -25.72 94.31
 70.14 23 28 54 4044.40 -22.37 172.42 264.26 63.55 24 36 19 3444.4 -25.73 164.89
 109.86 4 30 7 3098.18 -22.35 101.85 264.25 63.54 5 21 45 2498.2 -25.72 94.31
 110.00 4 48 26 3042.35 -23.98 98.34 265.10 64.87 5 39 8 2442.3 -27.16 90.62
 110.00 4 13 42 3148.23 -20.76 104.88 263.37 62.21 5 6 10 2548.2 -24.31 97.53

DIFFERENTIAL CORRECTIONS

TOE 2.7347 TRA 3.3692 TC3-2.5557 BAU .7903
 ROE .3552 RRA .0001 RC3 .0876 FAU .04554
 FDE 2.5618 FRA 3.7367 FC3-1.7055 BSP 20482
 BOE 2.7577 BRA 3.3692 BC3 2.5572 FSP -2000

MID-COURSE EXECUTION ACCURACY

SGT 6338.3 SGR 431.6 SG3 552.8
 RRT .4289 RRF .4182 RTF .9878
 SGB 6353.0 R23 -.0078 R13 .9878
 SG1 6341.0 SG2 389.7 THA 1.68

ORBIT DETERMINATION ACCURACY

ST 3569.7 SR 423.3 SS 1607.9
 CRT .9129 CRS -.8840 CST -.9978
 LSA 3932.7 MSA 201.1 SSA 13.0
 EL1 3590.6 EL2 171.8 ALF 6.19

LAUNCH DATE DEC 13 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 576.498

RL 147.26 LAL -.00 LOL 81.05 VL 27.598 GAL 7.21 AZL 86.58 HCA 262.75 SMA 127.52 ECC .19838 INC 3.4181 V1 30.254
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.393 GAP 7.77 AZP 90.43 TAL 147.96 TAP 50.72 RCA 102.22 APO 152.81 V2 34.821
 RC 130.653 GL 19.26 GP -1.82 ZAL 42.56 ZAP 156.67 ETS 356.98 ZAE 125.03 ETE 180.05 ZAC 101.75 ETC 167.05 CLP-156.74

PLANETOCENTRIC CONIC

C3 24.491 VHL 4.949 DLA 33.75 RAL 32.94 RAD 6568.0 VEL 12.078 PTH 2.16 VHP 5.644 DPA -1.75 RAP 8.52 ECC 1.4031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.82 23 38 6 4046.12 -21.72 172.21 266.36 63.51 24 45 32 3446.1 -25.10 164.72
 109.18 4 31 11 3124.74 -21.71 103.57 266.35 63.50 5 23 16 2524.7 -25.09 96.08
 70.82 23 38 6 4046.12 -21.72 172.21 266.36 63.51 24 45 32 3446.1 -25.10 164.72
 109.18 4 31 11 3124.74 -21.71 103.57 266.35 63.50 5 23 16 2524.7 -25.09 96.08
 110.00 5 17 18 2983.78 -25.62 94.58 268.33 66.55 6 7 2 2383.8 -28.56 86.64
 110.00 3 55 5 3235.07 -17.92 110.01 264.20 60.39 4 49 0 2635.1 -21.72 102.94

DIFFERENTIAL CORRECTIONS

TOE 2.7841 TRA 3.5990 TC3-2.4449 BAU .8010
 ROE .3701 RRA .0028 RC3 .0826 FAU .04062
 FDE 2.3802 FRA 3.6198 FC3-1.4359 BSP 20848
 BOE 2.8086 BRA 3.5990 BC3 2.4463 FSP -1853

MID-COURSE EXECUTION ACCURACY

SGT 6426.9 SGR 436.2 SG3 511.3
 RRT .4291 RRF .4201 RTF .9874
 SGB 6441.7 R23 -.0058 R13 .9874
 SG1 6429.6 SG2 393.8 THA 1.67

ORBIT DETERMINATION ACCURACY

ST 3556.7 SR 428.4 SS 1532.9
 CRT .9073 CRS -.8778 CST -.9978
 LSA 3891.2 MSA 205.1 SSA 13.0
 EL1 3578.0 EL2 179.1 ALF 6.25

LAUNCH DATE DEC 13 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 582.295

RL 147.26 LAL -.00 LOL 81.05 VL 27.578 GAL 7.59 AZL 86.60 HCA 265.92 SMA 127.38 ECC .20339 INC 3.4027 V1 30.254
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.385 GAP 8.24 AZP 90.24 TAL 147.11 TAP 53.03 RCA 101.48 APO 153.29 V2 34.829
 RC 132.989 GL 18.54 GP -1.72 ZAL 41.48 ZAP 158.38 ETS 356.93 ZAE 124.35 ETE 179.96 ZAC 103.14 ETC 167.08 CLP-158.45

PLANETOCENTRIC CONIC

C3 26.034 VHL 5.102 DLA 33.38 RAL 34.22 RAD 6568.1 VEL 12.141 PTH 2.18 VHP 5.912 DPA -1.07 RAP 9.81 ECC 1.4285
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.53 23 47 40 4047.58 -21.05 171.96 268.51 63.47 24 55 7 3447.6 -24.44 164.52
 108.47 4 31 52 3153.42 -21.03 105.43 268.50 63.46 5 24 25 2553.4 -24.42 97.99
 71.53 23 47 40 4047.58 -21.05 171.96 268.51 63.47 24 55 7 3447.6 -24.44 164.52
 108.47 4 31 52 3153.42 -21.03 105.43 268.50 63.46 5 24 25 2553.4 -24.42 97.99
 110.00 5 37 10 2953.28 -26.43 92.58 271.19 67.49 6 26 24 2353.3 -29.24 84.53
 110.00 3 49 28 3295.72 -15.84 113.49 265.52 59.31 4 40 23 2695.7 -19.80 106.60

DIFFERENTIAL CORRECTIONS

TOE 2.8313 TRA 3.8337 TC3-2.3249 BAU .8096
 ROE .3858 RRA .0071 RC3 .0768 FAU .03611
 FDE 2.2158 FRA 3.5149 FC3-1.2008 BSP 21182
 BOE 2.8575 BRA 3.8337 BC3 2.3262 FSP -1718

MID-COURSE EXECUTION ACCURACY

SGT 6505.2 SGR 440.3 SG3 473.5
 RRT .4330 RRF .4255 RTF .9870
 SGB 6520.1 R23 -.0039 R13 .9870
 SG1 6508.0 SG2 396.7 THA 1.69

ORBIT DETERMINATION ACCURACY

ST 3536.3 SR 433.2 SS 1462.9
 CRT .9018 CRS -.8719 CST -.9978
 LSA 3845.7 MSA 209.2 SSA 13.0
 EL1 3557.9 EL2 186.1 ALF 6.32

LAUNCH DATE DEC 13 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 588.047

RL 147.26 LAL -.00 LOL 81.05 VL 27.558 GAL 7.99 AZL 86.61 HCA 269.09 SMA 127.25 ECC .20880 INC 3.3875 V1 30.254
 RP 108.78 LAP -3.39 LOP 350.14 VP 37.378 GAP 8.73 AZP 90.05 TAL 146.24 TAP 55.33 RCA 100.68 APO 153.82 V2 34.837
 RC 135.313 GL 17.82 GP -1.64 ZAL 40.39 ZAP 160.02 ETS 356.85 ZAE 123.74 ETE 179.89 ZAC 104.60 ETC 167.09 CLP-160.09

PLANETOCENTRIC CONIC

C3 27.769 VHL 5.270 DLA 33.01 RAL 35.50 RAD 6568.1 VEL 12.212 PTH 2.19 VHP 6.193 DPA -.36 RAP 11.17 ECC 1.4570
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.29 0 1 30 4048.79 -20.34 171.68 270.71 63.43 1 8 58 3448.8 -23.74 164.28
 107.71 4 32 10 3184.25 -20.33 107.43 270.71 63.42 5 25 14 2584.2 -23.73 100.04
 72.29 0 1 30 4048.79 -20.34 171.68 270.71 63.43 1 8 58 3448.8 -23.74 164.28
 107.71 4 32 10 3184.25 -20.33 107.43 270.71 63.42 5 25 14 2584.2 -23.73 100.04
 110.00 5 54 10 2932.21 -26.97 91.19 273.96 68.15 6 43 2 2332.2 -29.69 83.05
 110.00 3 38 39 3348.83 -13.98 116.47 267.02 58.48 4 34 28 2748.8 -18.05 109.72

DIFFERENTIAL CORRECTIONS

TOE 2.8811 TRA 4.0900 TC3-2.1923 BAU .8143
 ROE .4024 RRA .0130 RC3 .0707 FAU .03178
 FDE 2.0708 FRA 3.4245 FC3 -.9909 BSP 21409
 BOE 2.9091 BRA 4.0900 BC3 2.1934 FSP -1588

MID-COURSE EXECUTION ACCURACY

SGT 6578.0 SGR 444.1 SG3 439.5
 RRT .4408 RRF .4348 RTF .9866
 SGB 6593.0 R23 -.0019 R13 .9866
 SG1 6580.9 SG2 398.4 THA 1.71

ORBIT DETERMINATION ACCURACY

ST 3514.0 SR 437.5 SS 1399.9
 CRT .8965 CRS -.8664 CST -.9979
 LSA 3801.8 MSA 213.1 SSA 13.0
 EL1 3535.9 EL2 192.6 ALF 6.39

LAUNCH DATE DEC 13 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -0.00 LOL 81.05 VL 27.538 GAL 8.43 AZL 86.63 MCA 272.26 SMA 127.11 ECC .21467 INC 3.3722 V1 30.254
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.371 GAP 9.24 AZP 89.87 TAL 145.36 TAP 57.63 RCA 99.82 APO 154.40 V2 34.846
 RC 137.625 GL 17.09 GP -1.56 ZAL 39.31 ZAP 161.60 ETS 356.75 ZAE 123.17 ETE 179.84 ZAC 106.13 ETC 167.09 CLP-161.66

PLANETOCENTRIC CONIC

C3 29.722 VHL 5.452 DLA 32.61 RAL 36.77 RAD 6568.2 VEL 12.292 PTH 2.21 VHP 6.490 DPA .37 RAP 12.59 ECC 1.4891
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.10 0 11 46 4049.64 -19.61 171.35 272.96 63.40 1 19 15 3449.6 -23.02 164.00
 106.90 4 32 0 3217.36 -19.59 109.58 272.95 63.39 5 25 37 2617.4 -23.00 102.23
 73.10 0 11 46 4049.64 -19.61 171.35 272.96 63.40 1 19 15 3449.6 -23.02 164.00
 106.90 4 32 0 3217.36 -19.59 109.58 272.95 63.39 5 25 37 2617.4 -23.00 102.23
 110.00 6 9 35 2916.63 -27.36 90.14 276.72 68.66 6 58 12 2316.6 -30.01 81.95
 110.00 3 33 21 3398.37 -12.20 119.20 268.63 57.82 4 30 0 2798.4 -16.36 112.57

DIFFERENTIAL CORRECTIONS

TDE 2.9269 TRA 4.3582 TC3-2.0593 BAU .8187
 RDE .4195 RRA .0205 RC3 .0641 FAU .02799
 FDE 1.9365 FRA 3.3406 FC3 -.8153 BSP 21692
 BOE 2.9568 BRA 4.3583 BC3 2.0603 FSP -1477

MID-COURSE EXECUTION ACCURACY

SGT 6638.7 SGR 447.1 SG3 408.1
 RRT .4508 RRF .4459 RTF .9862
 SGB 6653.8 R23 -.0003 R13 .9862
 SG1 6641.8 SG2 398.9 THA 1.75

ORBIT DETERMINATION ACCURACY

ST 3482.5 SR 441.0 SS 1339.4
 CRT .8912 CRS -.8609 CST -.9980
 LSA 3750.9 MSA 216.9 SSA 12.9
 EL1 3504.7 EL2 198.8 ALF 6.46

LAUNCH DATE DEC 13 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -0.00 LOL 81.05 VL 27.517 GAL 8.90 AZL 86.64 MCA 275.44 SMA 126.97 ECC .22103 INC 3.3569 V1 30.254
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.364 GAP 9.77 AZP 89.68 TAL 144.49 TAP 59.92 RCA 98.91 APO 155.04 V2 34.855
 RC 139.923 GL 16.36 GP -1.49 ZAL 38.24 ZAP 163.12 ETS 356.61 ZAE 122.65 ETE 179.81 ZAC 107.71 ETC 167.08 CLP-163.18

PLANETOCENTRIC CONIC

C3 31.924 VHL 5.650 DLA 32.21 RAL 38.02 RAD 6568.3 VEL 12.381 PTH 2.24 VHP 6.803 DPA 1.12 RAP 14.07 ECC 1.5254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.96 0 22 26 4049.94 -18.84 170.97 275.25 63.37 1 29 56 3449.9 -22.26 163.66
 106.04 4 31 19 3252.97 -18.82 111.90 275.25 63.36 5 25 32 2653.0 -22.24 104.59
 73.96 0 22 26 4049.94 -18.84 170.97 275.25 63.37 1 29 56 3449.9 -22.26 163.66
 106.04 4 31 19 3252.97 -18.82 111.90 275.25 63.36 5 25 32 2653.0 -22.24 104.59
 110.00 6 23 56 2904.91 -27.65 89.35 279.47 69.05 7 12 21 2304.9 -30.24 81.12
 110.00 3 28 59 3446.00 -10.46 121.79 270.32 57.27 4 26 25 2846.0 -14.70 115.26

DIFFERENTIAL CORRECTIONS

TDE 2.9731 TRA 4.6432 TC3-1.9216 BAU .8205
 RDE .4373 RRA .0296 RC3 .0575 FAU .02447
 FDE 1.8155 FRA 3.2665 FC3 -.6637 BSP 21948
 BOE 3.0050 BRA 4.6433 BC3 1.9225 FSP -1374

MID-COURSE EXECUTION ACCURACY

SGT 6691.3 SGR 449.6 SG3 379.4
 RRT .4631 RRF .4592 RTF .9859
 SGB 6706.4 R23 .0011 R13 .9859
 SG1 6694.6 SG2 398.2 THA 1.79

ORBIT DETERMINATION ACCURACY

ST 3446.8 SR 443.6 SS 1283.6
 CRT .8859 CRS -.8556 CST -.9980
 LSA 3698.2 MSA 220.4 SSA 12.7
 EL1 3469.2 EL2 204.4 ALF 6.53

LAUNCH DATE DEC 13 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -0.00 LOL 81.05 VL 27.496 GAL 9.40 AZL 86.66 MCA 278.61 SMA 126.83 ECC .22794 INC 3.3414 V1 30.254
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.358 GAP 10.33 AZP 89.50 TAL 143.61 TAP 62.22 RCA 97.92 APO 155.74 V2 34.865
 RC 142.207 GL 15.64 GP -1.43 ZAL 37.18 ZAP 164.59 ETS 356.43 ZAE 122.17 ETE 179.79 ZAC 109.35 ETC 167.05 CLP-164.65

PLANETOCENTRIC CONIC

C3 34.414 VHL 5.866 DLA 31.80 RAL 39.25 RAD 6568.4 VEL 12.481 PTH 2.26 VHP 7.135 DPA 1.87 RAP 15.59 ECC 1.5664
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.89 0 33 35 4049.36 -18.04 170.50 277.57 63.36 1 41 4 3449.4 -21.47 163.24
 105.11 4 29 59 3291.40 -18.02 114.40 277.57 63.35 5 24 50 2691.4 -21.45 107.14
 74.89 0 33 35 4049.36 -18.04 170.50 277.57 63.36 1 41 4 3449.4 -21.47 163.24
 105.11 4 29 59 3291.40 -18.02 114.40 277.57 63.35 5 24 50 2691.4 -21.45 107.14
 110.00 6 37 29 2896.19 -27.86 88.76 282.24 69.34 7 25 45 2296.2 -30.41 80.49
 110.00 3 25 16 3492.58 -8.73 124.30 272.09 56.82 4 23 28 2892.6 -13.04 117.85

DIFFERENTIAL CORRECTIONS

TDE 3.0200 TRA 4.9470 TC3-1.7800 BAU .8193
 RDE .4556 RRA .0404 RC3 .0509 FAU .02119
 FDE 1.7064 FRA 3.2018 FC3 -.5331 BSP 22178
 BOE 3.0542 BRA 4.9472 BC3 1.7808 FSP -1280

MID-COURSE EXECUTION ACCURACY

SGT 6736.5 SGR 451.3 SG3 353.2
 RRT .4775 RRF .4743 RTF .9856
 SGB 6751.6 R23 .0024 R13 .9856
 SG1 6740.0 SG2 396.4 THA 1.84

ORBIT DETERMINATION ACCURACY

ST 3407.8 SR 445.2 SS 1232.3
 CRT .8807 CRS -.8505 CST -.9981
 LSA 3644.1 MSA 223.6 SSA 12.6
 EL1 3430.3 EL2 209.5 ALF 6.59

LAUNCH DATE DEC 13 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

RL 147.26 LAL -0.00 LOL 81.05 VL 27.475 GAL 9.95 AZL 86.67 MCA 281.79 SMA 126.69 ECC .23546 INC 3.3256 V1 30.254
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.352 GAP 10.93 AZP 89.32 TAL 142.74 TAP 64.53 RCA 96.86 APO 156.52 V2 34.875
 RC 144.478 GL 14.91 GP -1.37 ZAL 36.13 ZAP 166.02 ETS 356.19 ZAE 121.71 ETE 179.78 ZAC 111.02 ETC 167.00 CLP-166.09

PLANETOCENTRIC CONIC

C3 37.237 VHL 6.102 DLA 31.37 RAL 40.46 RAD 6568.5 VEL 12.594 PTH 2.28 VHP 7.487 DPA 2.64 RAP 17.16 ECC 1.6128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.89 0 45 17 4047.66 -17.21 169.94 279.94 63.35 1 52 45 3447.7 -20.65 162.72
 104.11 4 27 54 3332.93 -17.20 117.11 279.94 63.35 5 23 27 2732.9 -20.64 109.89
 75.89 0 45 17 4047.66 -17.21 169.94 279.94 63.35 1 52 45 3447.7 -20.65 162.72
 104.11 4 27 54 3332.93 -17.20 117.11 279.94 63.35 5 23 27 2732.9 -20.64 109.89
 110.00 6 50 23 2889.96 -28.01 88.34 285.03 69.55 7 38 33 2290.0 -30.53 80.05
 110.00 3 21 59 3538.63 -7.01 126.75 273.91 56.46 4 20 58 2938.6 -11.37 120.37

DIFFERENTIAL CORRECTIONS

TDE 5.0727 TRA 5.2756 TC3-1.6320 BAU .8127
 RDE .4745 RRA .0532 RC3 .0449 FAU .01800
 FDE 1.6108 FRA 3.1485 FC3 -.4185 BSP 22281
 BOE 3.1091 BRA 5.2759 BC3 1.6326 FSP -1186

MID-COURSE EXECUTION ACCURACY

SGT 6778.8 SGR 452.6 SG3 329.4
 RRT .4941 RRF .4917 RTF .9854
 SGB 6793.9 R23 .0037 R13 .9854
 SG1 6782.5 SG2 393.3 THA 1.90

ORBIT DETERMINATION ACCURACY

ST 3370.0 SR 445.8 SS 1187.0
 CRT .8757 CRS -.8459 CST -.9982
 LSA 3593.5 MSA 226.2 SSA 12.4
 EL1 3392.6 EL2 213.8 ALF 6.64

LAUNCH DATE DEC 14 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 22 1969

HELIOCENTRIC CONIC

DISTANCE 135.281

RL 147.25 LAL .00 LOL 82.07 VL 17.459 GAL 22.08 AZL 86.26 MCA 42.59 SMA 88.61 ECC .71933 INC 3.7423 V1 30.257
 RP 107.48 LAP 2.53 LOP 124.60 VP 31.173 GAP -44.68 AZP 87.24 TAL 170.57 TAP 213.16 RCA 24.87 APO 152.34 V2 35.257
 RC 74.503 GL 3.86 GP .43 ZAL 64.55 ZAP 30.89 ETS 180.08 ZAE 138.09 ETE 188.75 ZAC 70.66 ETC 164.42 CLP 30.88

PLANETOCENTRIC CONIC

C3 245.662 VML 15.674 DLA 10.47 RAL 14.72 RAD 6571.4 VEL 19.157 PTH 3.09 VHP 25.512 DPA -12.19 RAP 338.42 ECC 5.0430
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 59 3094.08 -27.30 103.23 281.35 82.17 6 20 33 2494.1 -28.10 94.65
 90.00 20 7 4 5076.22 24.19 224.71 271.24 74.81 21 31 40 4476.2 21.87 216.80
 100.00 6 55 32 2814.93 -28.97 82.95 281.61 82.27 7 42 27 2214.9 -29.73 74.23
 100.00 21 23 12 4830.60 25.81 206.15 270.74 74.37 22 43 42 4230.6 23.41 198.17
 110.00 8 15 36 2564.39 -33.45 64.63 282.31 82.53 8 58 20 1964.4 -34.12 55.45
 110.00 22 19 37 4653.91 30.15 191.31 269.31 73.08 23 37 11 4053.9 27.54 183.09

DIFFERENTIAL CORRECTIONS

TOE -.7483 TRA-1.8771 TC3 -.1128 BAU .3735
 RDE-1.1087 RRA .5110 RC3 -.0148 FAU .01233
 FDE .3623 FRA .6910 FC3 -.0435 BSP 2270
 BOE 1.3376 BRA 1.9454 BC3 .1137 FSP -59

MID-COURSE EXECUTION ACCURACY

SGT 828.7 SGR 450.0 SG3 27.6
 RRT -.0141 RRF .0101 RTF -.6320
 SGB 943.0 R23 .0025 R13 .6320
 SG1 828.7 SG2 450.0 THA 179.38

ORBIT DETERMINATION ACCURACY

ST 344.6 SR 409.3 SS 337.9
 CRT .7015 CRS .7855 CST .9904
 LSA 591.5 MSA 224.3 SSA 13.8
 EL1 495.0 EL2 203.0 ALF 51.92

LAUNCH DATE DEC 14 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 141.071

RL 147.25 LAL .00 LOL 82.07 VL 18.180 GAL 21.11 AZL 86.30 MCA 45.83 SMA 90.16 ECC .69190 INC 3.7032 V1 30.257
 RP 107.48 LAP 2.66 LOP 127.85 VP 31.584 GAP -42.63 AZP 87.42 TAL 169.74 TAP 215.58 RCA 27.78 APO 152.53 V2 35.258
 RC 72.381 GL 4.20 GP .44 ZAL 63.32 ZAP 29.36 ETS 180.25 ZAE 138.37 ETE 189.26 ZAC 72.31 ETC 164.66 CLP 29.35

PLANETOCENTRIC CONIC

C3 224.084 VML 14.969 DLA 11.25 RAL 15.75 RAD 6571.3 VEL 18.585 PTH 3.05 VHP 24.528 DPA -11.55 RAP 340.05 ECC 4.6879
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 39 3107.11 -27.17 104.16 281.76 81.71 6 18 26 2507.1 -28.04 95.60
 90.00 20 17 36 5037.36 23.47 222.09 271.09 73.68 21 41 33 4437.4 21.01 214.28
 100.00 6 53 39 2826.50 -28.86 83.80 282.03 81.84 7 40 46 2226.5 -29.68 75.09
 100.00 21 33 17 4793.20 25.10 203.60 270.56 73.20 22 53 10 4193.2 22.56 195.73
 110.00 8 14 44 2572.81 -33.38 65.28 282.77 82.15 8 57 37 1972.8 -34.10 56.11
 110.00 22 28 42 4619.65 29.45 188.89 269.02 71.80 23 45 41 4019.7 26.68 180.80

DIFFERENTIAL CORRECTIONS

TOE -.7525 TRA-1.8906 TC3 -.1203 BAU .3639
 RDE-1.0715 RRA .4882 RC3 -.0166 FAU .01244
 FDE .3770 FRA .7166 FC3 -.0481 BSP 2328
 BOE 1.3093 BRA 1.9526 BC3 .1215 FSP -64

MID-COURSE EXECUTION ACCURACY

SGT 870.1 SGR 455.0 SG3 29.9
 RRT -.0114 RRF .0081 RTF -.6511
 SGB 981.9 R23 .0021 R13 .6511
 SG1 870.1 SG2 454.9 THA 179.53

ORBIT DETERMINATION ACCURACY

ST 363.4 SR 414.1 SS 353.8
 CRT .7010 CRS .7864 CST .9902
 LSA 612.7 MSA 230.5 SSA 14.0
 EL1 509.0 EL2 210.8 ALF 50.29

LAUNCH DATE DEC 14 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 146.962

RL 147.25 LAL .00 LOL 82.07 VL 18.856 GAL 20.18 AZL 86.33 MCA 49.08 SMA 91.71 ECC .66487 INC 3.6681 V1 30.257
 RP 107.48 LAP 2.77 LOP 131.10 VP 31.978 GAP -40.69 AZP 87.60 TAL 168.92 TAP 218.01 RCA 30.74 APO 152.69 V2 35.259
 RC 70.281 GL 4.54 GP .46 ZAL 62.16 ZAP 27.85 ETS 180.42 ZAE 138.75 ETE 189.80 ZAC 73.99 ETC 164.88 CLP 27.84

PLANETOCENTRIC CONIC

C3 204.509 VML 14.301 DLA 12.02 RAL 16.72 RAD 6571.1 VEL 18.051 PTH 3.01 VHP 23.579 DPA -10.90 RAP 341.69 ECC 4.3657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 7 3119.34 -27.05 105.03 282.05 81.29 6 16 6 2519.3 -27.98 96.49
 90.00 20 27 56 4997.96 22.69 219.46 270.89 72.59 21 51 14 4398.0 20.09 211.75
 100.00 6 51 35 2837.23 -28.75 84.58 282.34 81.45 7 38 53 2237.2 -29.64 75.88
 100.00 21 43 9 4755.30 24.33 201.05 270.33 72.07 23 2 24 4155.3 21.65 193.28
 110.00 8 13 41 2580.35 -33.31 65.85 283.12 81.82 8 56 41 1980.4 -34.08 56.70
 110.00 22 37 33 4584.94 28.69 186.48 268.68 70.56 23 53 58 3984.9 25.77 178.52

DIFFERENTIAL CORRECTIONS

TOE -.7537 TRA-1.9003 TC3 -.1274 BAU .3521
 RDE-1.0344 RRA .4653 RC3 -.0186 FAU .01259
 FDE .3916 FRA .7422 FC3 -.0533 BSP 2473
 BOE 1.2799 BRA 1.9565 BC3 .1288 FSP -70

MID-COURSE EXECUTION ACCURACY

SGT 911.1 SGR 459.3 SG3 32.4
 RRT -.0092 RRF .0061 RTF -.6697
 SGB 1020.3 R23 .0021 R13 .6697
 SG1 911.1 SG2 459.2 THA 179.65

ORBIT DETERMINATION ACCURACY

ST 381.9 SR 418.4 SS 369.9
 CRT .6998 CRS .7874 CST .9899
 LSA 633.7 MSA 236.3 SSA 14.2
 EL1 522.7 EL2 218.4 ALF 48.72

LAUNCH DATE DEC 14 1968

FLIGHT TIME 76.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 152.948

RL 147.25 LAL .00 LOL 82.07 VL 19.488 GAL 19.30 AZL 86.36 MCA 52.33 SMA 93.28 ECC .63835 INC 3.6364 V1 30.257
 RP 107.48 LAP 2.88 LOP 134.35 VP 32.354 GAP -38.85 AZP 87.78 TAL 168.12 TAP 220.45 RCA 33.73 APO 152.82 V2 35.259
 RC 68.209 GL 4.90 GP .47 ZAL 61.05 ZAP 26.36 ETS 180.61 ZAE 139.23 ETE 190.38 ZAC 75.69 ETC 165.10 CLP 26.35

PLANETOCENTRIC CONIC

C3 186.731 VML 13.665 DLA 12.78 RAL 17.65 RAD 6571.0 VEL 17.551 PTH 2.97 VHP 22.664 DPA -10.23 RAP 343.34 ECC 4.0731
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 22 3130.79 -26.93 105.85 282.22 80.90 6 13 33 2530.8 -27.91 97.32
 90.00 20 38 4 4957.99 21.85 216.83 270.64 71.53 22 0 42 4358.0 19.12 209.22
 100.00 6 49 19 2847.15 -28.65 85.30 282.53 81.08 7 36 46 2247.2 -29.58 76.62
 100.00 21 52 48 4716.87 23.50 198.50 270.03 70.97 23 11 25 4116.9 20.68 190.83
 110.00 8 12 26 2587.04 -33.24 66.36 283.35 81.52 8 55 33 1987.0 -34.05 57.22
 110.00 22 46 10 4549.74 27.87 184.07 268.28 69.35 24 2 0 3949.7 24.80 176.24

DIFFERENTIAL CORRECTIONS

TOE -.7541 TRA-1.9084 TC3 -.1342 BAU .3391
 RDE -.9973 RRA .4424 RC3 -.0208 FAU .01276
 FDE .4067 FRA .7681 FC3 -.0592 BSP 2648
 BOE 1.2503 BRA 1.9590 BC3 .1358 FSP -78

MID-COURSE EXECUTION ACCURACY

SGT 952.8 SGR 462.9 SG3 35.0
 RRT -.0069 RRF .0037 RTF -.6877
 SGB 1059.3 R23 .0025 R13 .6877
 SG1 952.8 SG2 462.9 THA 179.75

ORBIT DETERMINATION ACCURACY

ST 400.9 SR 422.0 SS 386.3
 CRT .6986 CRS .7884 CST .9895
 LSA 655.2 MSA 241.8 SSA 14.4
 EL1 536.6 EL2 225.6 ALF 47.11

LAUNCH DATE DEC 14 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 159.025

RL 147.25 LAL .00 LOL 82.07 VL 20.080 GAL 18.46 AZL 86.39 HCA 55.58 SMA 94.84 ECC .61240 INC 3.6073 V1 30.257
 RP 107.48 LAP 2.98 LOP 137.60 VP 32.713 GAP -37.09 AZP 87.96 TAL 167.33 TAP 222.91 RCA 36.76 APO 152.92 V2 35.257
 RC 66.167 GL 5.26 GP .49 ZAL 60.00 ZAP 24.89 ETS 180.82 ZAE 139.81 ETE 191.00 ZAC 77.41 ETC 165.30 CLP 24.88

PLANETOCENTRIC CONIC

C3 170.571 VHL 13.060 DLA 13.53 RAL 18.52 RAD 6570.8 VEL 17.085 PTH 2.93 VHP 21.779 DPA -9.54 RAP 345.01 ECC 3.8072
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 23 3141.52 -26.81 106.61 282.28 80.54 6 10 44 2541.5 -27.85 98.10
 90.00 20 48 1 4917.42 20.95 214.19 270.33 70.50 22 9 59 4317.4 18.10 206.68
 100.00 6 46 49 2856.31 -28.55 85.96 282.60 80.74 7 34 25 2256.3 -29.53 77.29
 100.00 22 2 16 4677.86 22.61 195.94 269.69 69.91 23 20 14 4077.9 19.67 188.38
 110.00 8 11 0 2592.90 -33.18 66.81 283.46 81.26 8 54 13 1992.9 -34.03 57.67
 110.00 22 54 35 4514.03 26.99 181.67 267.84 68.17 24 9 49 3914.0 23.78 173.97

DIFFERENTIAL CORRECTIONS

TDE -.7567 TRA-1.9176 TC3 -.1413 BAU .3266
 RDE -.9603 RRA .4195 RC3 -.0231 FAU .01295
 FDE .4224 FRA .7947 FC3 -.0657 BSP 2786
 BDE 1.2226 BRA 1.9630 BC3 .1432 FSP -85

MID-COURSE EXECUTION ACCURACY

SGT 997.6 SGR 465.8 SCS 37.9
 RRT -.0036 RRF .0008 RTF -.7048
 SGB 1101.0 R23 .0024 R13 .7048
 SGI 997.6 SGT 465.8 THA 179.88

ORBIT DETERMINATION ACCURACY

ST 421.6 SR 425.1 SS 403.3
 CRT .6983 CRS .7897 CST .9893
 LSA 678.2 MSA 246.9 SSA 14.6
 EL1 551.7 EL2 232.5 ALF 45.34

LAUNCH DATE DEC 14 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 165.185

RL 147.25 LAL .00 LOL 82.07 VL 20.634 GAL 17.65 AZL 86.42 HCA 58.83 SMA 96.39 ECC .58712 INC 3.5804 V1 30.257
 RP 107.49 LAP 3.06 LOP 140.85 VP 33.054 GAP -35.42 AZP 88.14 TAL 166.56 TAP 225.39 RCA 39.80 APO 152.98 V2 35.256
 RC 64.161 GL 5.64 GP .50 ZAL 59.01 ZAP 23.44 ETS 181.04 ZAE 140.50 ETE 191.66 ZAC 79.14 ETC 165.49 CLP 23.43

PLANETOCENTRIC CONIC

C3 155.867 VHL 12.485 DLA 14.26 RAL 19.34 RAD 6570.7 VEL 16.649 PTH 2.89 VHP 20.924 DPA -8.84 RAP 346.68 ECC 3.5652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 15 9 3151.57 -26.70 107.33 282.23 80.20 6 7 41 2551.6 -27.78 98.83
 90.00 20 57 48 4676.19 19.99 211.55 269.96 69.52 22 19 4 4276.2 17.02 204.13
 100.00 6 44 5 2864.73 -28.46 86.57 282.56 80.44 7 31 50 2264.7 -29.48 77.92
 100.00 22 11 35 4636.25 21.66 193.38 269.29 68.88 23 28 51 4036.3 18.59 185.93
 110.00 8 9 21 2597.96 -33.13 67.20 283.45 81.04 8 52 39 1998.0 -34.01 58.07
 110.00 23 2 46 4477.79 26.05 179.27 267.34 67.04 24 17 24 3877.8 22.71 171.70

DIFFERENTIAL CORRECTIONS

TDE -.7576 TRA-1.9239 TC3 -.1478 BAU .3126
 RDE -.9235 RRA .3968 RC3 -.0256 FAU .01318
 FDE .4385 FRA .8217 FC3 -.0732 BSP 2976
 + BDE 1.1945 BRA 1.9644 BC3 .1500 FSP -94

MID-COURSE EXECUTION ACCURACY

SGT 1042.7 SGR 468.0 SCS 41.0
 RRT -.0004 RRF -.0023 RTF -.7214
 SGB 1142.9 R23 .0027 R13 .7214
 SGI 1042.7 SGT 468.0 THA 179.99

ORBIT DETERMINATION ACCURACY

ST 442.4 SR 427.6 SS 420.7
 CRT .6978 CRS .7910 CST .9890
 LSA 701.5 MSA 251.4 SSA 14.8
 EL1 566.9 EL2 239.0 ALF 43.60

LAUNCH DATE DEC 14 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 171.422

RL 147.25 LAL .00 LOL 82.07 VL 21.153 GAL 16.87 AZL 86.44 HCA 62.07 SMA 97.93 ECC .56254 INC 3.5553 V1 30.257
 RP 107.50 LAP 3.14 LOP 144.10 VP 33.378 GAP -33.83 AZP 88.33 TAL 165.81 TAP 227.88 RCA 42.84 APO 153.02 V2 35.253
 RC 62.196 GL 6.04 GP .52 ZAL 58.07 ZAP 22.00 ETS 181.28 ZAE 141.31 ETE 192.38 ZAC 80.89 ETC 165.66 CLP 21.99

PLANETOCENTRIC CONIC

C3 142.481 VHL 11.937 DLA 14.99 RAL 20.11 RAD 6570.5 VEL 16.242 PTH 2.85 VHP 20.097 DPA -8.12 RAP 348.36 ECC 3.3449
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 39 3160.99 -26.59 107.99 282.06 79.88 6 4 20 2561.0 -27.72 99.51
 90.00 21 7 25 4634.28 18.97 208.90 269.55 68.58 22 27 59 4234.3 15.89 201.58
 100.00 6 41 7 2872.48 -28.37 87.13 282.41 80.16 7 29 0 2272.5 -29.44 78.49
 100.00 22 20 38 4598.02 20.65 190.82 268.84 67.89 23 37 16 3998.0 17.47 183.47
 110.00 8 7 29 2602.25 -33.08 67.52 283.33 80.85 8 50 51 2002.2 -33.99 58.40
 110.00 23 10 46 4441.01 23.05 176.88 266.80 65.94 24 24 47 3841.0 21.58 169.44

DIFFERENTIAL CORRECTIONS

TDE -.7590 TRA-1.9293 TC3 -.1540 BAU .2983
 RDE -.8870 RRA .3742 RC3 -.0283 FAU .01343
 FDE .4554 FRA .8492 FC3 -.0816 BSP 3170
 BDE 1.1674 BRA 1.9653 BC3 .1566 FSP -103

MID-COURSE EXECUTION ACCURACY

SGT 1089.5 SGR 469.5 SCS 44.4
 RRT .0032 RRF -.0060 RTF -.7373
 SGB 1186.3 R23 -.0031 R13 -.7373
 SGI 1089.5 SGT 469.5 THA .10

ORBIT DETERMINATION ACCURACY

ST 464.3 SR 429.4 SS 438.7
 CRT .6976 CRS .7926 CST .9887
 LSA 725.9 MSA 255.5 SSA 15.0
 EL1 583.0 EL2 245.0 ALF 41.80

LAUNCH DATE DEC 14 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 177.731

RL 147.25 LAL .00 LOL 82.07 VL 21.639 GAL 16.13 AZL 86.47 HCA 65.32 SMA 99.46 ECC .53872 INC 3.5316 V1 30.257
 RP 107.51 LAP 3.21 LOP 147.35 VP 33.684 GAP -32.30 AZP 88.52 TAL 165.09 TAP 230.41 RCA 45.88 APO 153.04 V2 35.250
 RC 60.278 GL 6.44 GP .54 ZAL 57.20 ZAP 20.57 ETS 181.54 ZAE 142.24 ETE 193.15 ZAC 82.65 ETC 165.82 CLP 20.57

PLANETOCENTRIC CONIC

C3 130.290 VHL 11.414 DLA 15.71 RAL 20.83 RAD 6570.4 VEL 15.863 PTH 2.81 VHP 19.297 DPA -7.39 RAP 350.04 ECC 3.1442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 7 54 3169.85 -26.48 108.62 281.78 79.58 6 0 43 2569.8 -27.65 100.15
 90.00 21 16 53 4791.66 17.89 206.24 269.08 67.68 22 36 45 4191.7 14.71 199.01
 100.00 6 37 54 2879.59 -28.28 87.64 282.15 79.90 7 25 53 2279.6 -29.39 79.01
 100.00 22 29 34 4557.15 19.58 188.25 268.34 66.95 23 45 31 3957.2 16.29 181.00
 110.00 8 5 24 2605.81 -33.04 67.79 283.09 80.70 8 48 50 2005.8 -33.97 58.68
 110.00 23 18 33 4403.69 23.99 174.49 266.22 64.88 24 31 57 3803.7 20.40 167.18

DIFFERENTIAL CORRECTIONS

TDE -.7829 TRA-1.9357 TC3 -.1605 BAU .2847
 RDE -.8507 RRA .3519 RC3 -.0311 FAU .01370
 FDE .4733 FRA .8778 FC3 -.0910 BSP 3314
 BDE 1.1427 BRA 1.9674 BC3 .1635 FSP -113

MID-COURSE EXECUTION ACCURACY

SGT 1140.0 SGR 470.2 SCS 48.0
 RRT .0082 RRF -.0103 RTF -.7522
 SGB 1233.1 R23 -.0029 R13 -.7522
 SGI 1140.0 SGT 470.2 THA .23

ORBIT DETERMINATION ACCURACY

ST 488.3 SR 430.6 SS 457.6
 CRT .6986 CRS .7944 CST .9885
 LSA 752.3 MSA 259.0 SSA 15.1
 EL1 601.0 EL2 250.3 ALF 39.88

LAUNCH DATE DEC 14 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 184.105

RL 147.25 LAL .00 LOL 82.07 VL 22.094 GAL 15.41 AZL 86.49 MCA 68.57 SMA 100.97 ECC .51568 INC 3.5092 V1 30.257
 RP 107.52 LAP 3.27 LOP 150.60 VP 33.974 GAP -30.84 AZP 88.72 TAL 164.39 TAP 232.96 RCA 48.90 APO 153.03 V2 35.246
 RC 58.412 GL 6.86 GP .57 ZAL 56.38 ZAP 19.16 ETS 181.83 ZAE 143.30 ETE 193.99 ZAC 84.41 ETC 165.96 CLP 19.15

PLANETOCENTRIC CONIC

C3 119.181 VML 10.917 DLA 16.41 RAL 21.49 RAD 6570.2 VEL 15.509 PTH 2.77 VMP 18.522 DPA -6.64 RAP 351.72 ECC 2.9614
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 3 50 3178.22 -26.38 109.21 281.39 79.30 5 56 48 2578.2 -27.59 100.75
 90.00 21 26 13 4748.31 16.75 203.57 268.57 66.83 22 45 21 4148.3 13.47 196.43
 100.00 6 34 24 2886.13 -28.20 88.11 281.77 79.66 7 22 30 2286.1 -29.34 79.49
 100.00 22 38 20 4515.62 18.45 185.68 267.79 66.06 23 53 35 3915.6 15.06 178.53
 110.00 8 3 5 2608.70 -33.01 68.01 282.74 80.57 8 46 33 2008.7 -33.96 58.90
 110.00 23 26 9 4365.82 22.87 172.12 265.59 63.88 24 38 55 3765.8 19.18 164.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7650 TRA-1.9385 TC3 -.1658 BAU .2697 SGT 1190.4 SGR 470.1 SG3 52.0 ST 512.4 SR 431.1 SS 477.0
 RDE -.8148 RRA .3298 RC3 -.0342 FAU .01402 RRT .0131 RRF -.0151 RTF -.7667 CRT .6995 CRS .7964 CST .9883
 FDE .4919 FRA .9069 FC3 -.1018 BSP 3517 SGB 1279.9 R23 -.0032 R13 -.7667 LSA 779.2 MSA 261.8 SSA 15.3
 BOE 1.1176 BRA 1.9663 BC3 .1693 FSP -124 SG1 1190.4 SG2 470.1 THA .35 EL1 619.2 EL2 254.9 ALF 38.03

LAUNCH DATE DEC 14 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 190.540

RL 147.25 LAL .00 LOL 82.07 VL 22.520 GAL 14.73 AZL 86.51 MCA 71.81 SMA 102.45 ECC .49345 INC 3.4877 V1 30.257
 RP 107.53 LAP 3.31 LOP 153.85 VP 34.248 GAP -29.44 AZP 88.91 TAL 163.72 TAP 235.53 RCA 51.89 APO 153.00 V2 35.241
 RC 56.605 GL 7.29 GP .59 ZAL 55.62 ZAP 17.75 ETS 182.15 ZAE 144.48 ETE 194.92 ZAC 86.19 ETC 166.09 CLP 17.74

PLANETOCENTRIC CONIC

C3 109.057 VML 10.443 DLA 17.11 RAL 22.09 RAD 6570.1 VEL 15.179 PTH 2.73 VMP 17.773 DPA -5.89 RAP 353.41 ECC 2.7948
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 59 28 3186.18 -26.27 109.77 280.88 79.04 5 52 34 2586.2 -27.52 101.33
 90.00 21 35 25 4704.21 15.55 200.89 268.02 66.03 22 53 50 4104.2 12.18 193.83
 100.00 6 30 38 2892.18 -28.13 88.54 281.28 79.45 7 18 50 2292.2 -29.30 79.93
 100.00 22 46 56 4473.43 17.27 183.11 267.20 65.22 24 1 30 3873.4 13.78 176.05
 110.00 8 0 31 2610.96 -32.98 68.18 282.28 80.47 8 44 2 2011.0 -33.95 59.08
 110.00 23 35 33 4327.42 21.70 169.75 264.92 62.92 24 45 40 3727.4 17.90 162.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7677 TRA-1.9401 TC3 -.1706 BAU .2546 SGT 1242.9 SGR 469.3 SG3 56.3 ST 537.7 SR 430.9 SS 497.3
 RDE -.7794 RRA .3081 RC3 -.0374 FAU .01438 RRT .0187 RRF -.0206 RTF -.7806 CRT .7009 CRS .7987 CST .9881
 FDE .5116 FRA .9369 FC3 -.1141 BSP 3718 SGB 1328.5 R23 -.0035 R13 -.7806 LSA 807.6 MSA 264.0 SSA 15.4
 BOE 1.0940 BRA 1.9645 BC3 .1746 FSP -136 SG1 1242.9 SG2 469.2 THA .47 EL1 638.6 EL2 258.8 ALF 36.17

LAUNCH DATE DEC 14 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 197.029

RL 147.25 LAL .00 LOL 82.07 VL 22.919 GAL 14.06 AZL 86.53 MCA 75.05 SMA 103.90 ECC .47206 INC 3.4671 V1 30.257
 RP 107.55 LAP 3.35 LOP 157.10 VP 34.506 GAP -28.10 AZP 89.10 TAL 163.08 TAP 238.14 RCA 54.85 APO 152.95 V2 35.235
 RC 54.864 GL 7.73 GP .62 ZAL 54.92 ZAP 16.36 ETS 182.52 ZAE 145.80 ETE 195.94 ZAC 87.97 ETC 166.21 CLP 16.35

PLANETOCENTRIC CONIC

C3 99.830 VML 9.992 DLA 17.80 RAL 22.64 RAD 6569.9 VEL 14.872 PTH 2.68 VMP 17.048 DPA -5.12 RAP 355.10 ECC 2.6430
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 54 46 3193.82 -26.17 110.31 280.28 78.79 5 48 0 2593.8 -27.46 101.88
 90.00 21 44 31 4659.35 14.29 198.20 267.42 65.29 23 2 11 4059.3 10.84 191.22
 100.00 6 26 34 2897.81 -28.06 88.95 280.69 79.25 7 14 52 2297.8 -29.26 80.35
 100.00 22 55 25 4430.59 16.03 180.54 266.57 64.43 24 9 15 3830.6 12.45 173.57
 110.00 7 57 42 2612.65 -32.97 68.31 281.71 80.40 8 41 15 2012.7 -33.94 59.21
 110.00 23 40 46 4288.51 20.48 167.40 264.21 62.01 24 52 14 3688.5 16.57 160.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7704 TRA-1.9398 TC3 -.1744 BAU .2390 SGT 1296.7 SGR 467.7 SG3 61.0 ST 564.0 SR 430.1 SS 518.4
 RDE -.7445 RRA .2868 RC3 -.0407 FAU .01477 RRT .0250 RRF -.0266 RTF -.7937 CRT .7028 CRS .8012 CST .9879
 FDE .5324 FRA .9679 FC3 -.1281 BSP 3931 SGB 1378.5 R23 -.0038 R13 -.7937 LSA 837.3 MSA 265.6 SSA 15.5
 BOE 1.0714 BRA 1.9609 BC3 .1791 FSP -150 SG1 1296.8 SG2 467.5 THA .59 EL1 659.2 EL2 261.8 ALF 34.33

LAUNCH DATE DEC 14 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 203.567

RL 147.25 LAL .00 LOL 82.07 VL 23.292 GAL 13.43 AZL 86.55 MCA 78.30 SMA 105.32 ECC .45150 INC 3.4470 V1 30.257
 RP 107.57 LAP 3.38 LOP 160.35 VP 34.749 GAP -26.81 AZP 89.30 TAL 162.47 TAP 240.77 RCA 57.77 APO 152.88 V2 35.229
 RC 53.197 GL 8.19 GP .65 ZAL 54.28 ZAP 14.97 ETS 182.95 ZAE 147.26 ETE 197.09 ZAC 89.76 ETC 166.30 CLP 14.95

PLANETOCENTRIC CONIC

C3 91.421 VML 9.561 DLA 18.48 RAL 23.14 RAD 6569.8 VEL 14.586 PTH 2.64 VMP 16.346 DPA -4.34 RAP 356.78 ECC 2.5046
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 44 3201.25 -26.07 110.83 279.56 78.55 5 43 5 2601.2 -27.39 102.41
 90.00 21 53 31 4613.72 12.97 195.49 266.78 64.61 23 10 25 4013.7 9.45 188.59
 100.00 6 22 11 2903.11 -27.99 89.33 279.99 79.06 7 10 34 2303.1 -29.22 80.74
 100.00 23 3 45 4387.09 14.73 177.96 265.90 63.69 24 16 52 3787.1 11.08 171.07
 110.00 7 54 38 2613.85 -32.95 68.40 281.04 80.35 8 38 12 2013.9 -33.93 59.30
 110.00 23 47 48 4249.11 19.20 165.05 263.46 61.16 24 58 37 3649.1 15.21 158.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7735 TRA-1.9378 TC3 -.1772 BAU .2232 SGT 1352.2 SGR 465.3 SG3 66.1 ST 591.5 SR 428.5 SS 540.5
 RDE -.7102 RRA .2660 RC3 -.0443 FAU .01522 RRT .0321 RRF -.0335 RTF -.8062 CRT .7053 CRS .8040 CST .9878
 FDE .5547 FRA 1.0001 FC3 -.1441 BSP 4149 SGB 1430.1 R23 -.0042 R13 -.8062 LSA 868.6 MSA 266.4 SSA 15.6
 BOE 1.0501 BRA 1.9559 BC3 .1826 FSP -164 SG1 1352.3 SG2 465.0 THA .72 EL1 681.1 EL2 263.8 ALF 32.53

LAUNCH DATE DEC 14 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC
 C3 83.758 VHL 9.152 DLA 19.15 RAL 23.58 RAD 6569.6 VEL 14.321 PTH 2.61 VHP 15.666 DPA -3.56 RAP 358.46 ECC 2.3784
 RL 147.25 LAL .00 LOL 82.07 VL 23.641 GAL 12.82 AZL 86.57 HCA 81.54 SMA 106.71 ECC .43179 INC 3.4274 V1 30.257
 RP 107.59 LAP 3.39 LOP 163.60 VP 34.977 GAP -25.58 AZP 89.50 TAL 161.90 TAP 243.44 RCA 60.63 APO 152.79 V2 35.222
 RC 51.611 GL 8.66 GP .68 ZAL 53.69 ZAP 13.58 ETS 183.46 ZAE 148.85 ETE 198.38 ZAC 91.54 ETC 166.38 CLP 13.56

PLANETOCENTRIC CONIC
 C3 83.758 VHL 9.152 DLA 19.15 RAL 23.58 RAD 6569.6 VEL 14.321 PTH 2.61 VHP 15.666 DPA -3.56 RAP 358.46 ECC 2.3784
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 44 19 3208.58 -25.97 111.34 278.75 78.31 5 37 48 2608.6 -27.33 102.94
 90.00 22 2 27 4567.32 11.60 192.77 266.10 63.99 23 18 34 3967.3 8.01 185.93
 100.00 6 17 29 2908.17 -27.93 89.69 279.19 78.88 7 5 57 2308.2 -29.18 81.11
 100.00 23 11 59 4342.96 13.38 175.37 265.19 63.02 24 24 22 3743.0 9.66 168.56
 110.00 7 51 18 2614.63 -32.94 68.46 280.26 80.31 8 34 53 2014.6 -33.93 59.36
 110.00 23 54 39 4209.26 17.88 162.72 262.68 60.37 25 4 48 3609.3 13.80 155.99

DIFFERENTIAL CORRECTIONS
 TOE -.7797 TRA-1.9366 TC3 -.1800 BAU .2086
 RDE -.6765 RRA .2456 RC3 -.0479 FAU .01569
 FDE .5789 FRA 1.0339 FC3 -.1622 BSP 4310
 BOE 1.0323 BRA 1.9521 BC3 .1863 FSP -180

MID-COURSE EXECUTION ACCURACY
 SGT 1412.1 SGR 462.1 SG3 71.7
 RRT .0410 RRF -.0415 RTF -.8178
 SGB 1485.8 R23 -.0040 R13 -.8178
 SG1 1412.2 SG2 461.7 THA .86

ORBIT DETERMINATION ACCURACY
 ST 621.8 SR 426.3 SS 564.1
 CRT .7091 CRS .8073 CST .9878
 LSA 903.0 MSA 266.4 SSA 15.8
 EL1 705.9 EL2 264.8 ALF 30.71

LAUNCH DATE DEC 14 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC
 C3 76.776 VHL 8.762 DLA 19.81 RAL 23.97 RAD 6569.5 VEL 14.076 PTH 2.57 VHP 15.008 DPA -2.77 RAP .14 ECC 2.2635
 RL 147.25 LAL .00 LOL 82.07 VL 23.968 GAL 12.23 AZL 86.59 HCA 84.78 SMA 108.06 ECC .41292 INC 3.4082 V1 30.257
 RP 107.61 LAP 3.39 LOP 166.84 VP 35.191 GAP -24.39 AZP 89.69 TAL 161.36 TAP 246.14 RCA 63.44 APO 152.68 V2 35.215
 RC 50.116 GL 9.14 GP .72 ZAL 53.17 ZAP 12.19 ETS 184.06 ZAE 150.59 ETE 199.85 ZAC 93.33 ETC 166.45 CLP 12.17

PLANETOCENTRIC CONIC
 C3 76.776 VHL 8.762 DLA 19.81 RAL 23.97 RAD 6569.5 VEL 14.076 PTH 2.57 VHP 15.008 DPA -2.77 RAP .14 ECC 2.2635
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 31 3215.93 -25.87 111.86 277.84 78.07 5 32 7 2615.9 -27.26 103.46
 90.00 22 11 19 4520.15 10.18 190.04 265.39 63.43 23 26 39 3920.2 6.53 183.26
 100.00 6 12 26 2913.09 -27.86 90.04 278.30 78.70 7 0 59 2313.1 -29.14 81.47
 100.00 23 20 5 4298.23 11.99 172.78 264.45 62.41 24 31 44 3698.2 8.20 166.04
 110.00 7 47 42 2615.06 -32.94 68.49 279.39 80.29 8 31 17 2015.1 -33.93 59.40
 110.00 0 5 15 4169.02 16.51 160.41 261.87 59.63 1 14 44 3569.0 12.35 153.77

DIFFERENTIAL CORRECTIONS
 TOE -.7839 TRA-1.9311 TC3 -.1804 BAU .1926
 RDE -.6435 RRA .2258 RC3 -.0517 FAU .01623
 FDE .6045 FRA 1.0688 FC3 -.1831 BSP 4529
 BOE 1.0143 BRA 1.9442 BC3 .1877 FSP -197

MID-COURSE EXECUTION ACCURACY
 SGT 1471.1 SGR 458.1 SG3 77.8
 RRT .0501 RRF -.0503 RTF -.8290
 SGB 1540.8 R23 -.0043 R13 -.8290
 SG1 1471.3 SG2 457.5 THA .99

ORBIT DETERMINATION ACCURACY
 ST 651.9 SR 423.4 SS 588.5
 CRT .7129 CRS .8108 CST .9878
 LSA 938.0 MSA 265.7 SSA 15.9
 EL1 730.8 EL2 264.9 ALF 29.01

LAUNCH DATE DEC 14 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC
 C3 70.416 VHL 8.391 DLA 20.47 RAL 24.29 RAD 6569.4 VEL 13.848 PTH 2.53 VHP 14.371 DPA -1.97 RAP 1.81 ECC 2.1589
 RL 147.25 LAL .00 LOL 82.07 VL 24.273 GAL 11.67 AZL 86.61 HCA 88.02 SMA 109.37 ECC .39490 INC 3.3892 V1 30.257
 RP 107.64 LAP 3.39 LOP 170.09 VP 35.391 GAP -23.24 AZP 89.88 TAL 160.85 TAP 248.87 RCA 66.18 APO 152.56 V2 35.207
 RC 48.721 GL 9.64 GP .76 ZAL 52.71 ZAP 10.81 ETS 184.82 ZAE 152.47 ETE 201.55 ZAC 95.11 ETC 166.49 CLP 10.78

PLANETOCENTRIC CONIC
 C3 70.416 VHL 8.391 DLA 20.47 RAL 24.29 RAD 6569.4 VEL 13.848 PTH 2.53 VHP 14.371 DPA -1.97 RAP 1.81 ECC 2.1589
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 19 3223.43 -25.77 112.38 276.84 77.83 5 26 2 2623.4 -27.19 104.00
 90.00 22 20 9 4472.21 8.71 187.29 264.65 62.95 23 34 41 3872.2 5.01 180.56
 100.00 6 7 3 2917.97 -27.79 90.39 277.32 78.53 6 55 41 2318.0 -29.09 81.82
 100.00 23 28 6 4252.78 10.55 170.19 263.68 61.87 24 38 59 3652.8 6.70 163.51
 110.00 7 43 49 2615.21 -32.94 68.51 278.43 80.29 8 27 24 2015.2 -33.93 59.41
 110.00 0 11 45 4128.43 15.10 158.11 261.03 58.96 1 20 34 3528.4 10.87 151.55

DIFFERENTIAL CORRECTIONS
 TOE -.7885 TRA-1.9237 TC3 -.1790 BAU .1765
 RDE -.6114 RRA .2064 RC3 -.0555 FAU .01684
 FDE .6320 FRA 1.1053 FC3 -.2071 BSP 4757
 BOE .9978 BRA 1.9347 BC3 .1874 FSP -217

MID-COURSE EXECUTION ACCURACY
 SGT 1531.6 SGR 453.4 SG3 84.5
 RRT .0602 RRF -.0600 RTF -.8396
 SGB 1597.3 R23 -.0047 R13 -.8397
 SG1 1531.8 SG2 452.5 THA 1.12

ORBIT DETERMINATION ACCURACY
 ST 683.3 SR 419.9 SS 614.3
 CRT .7173 CRS .8146 CST .9878
 LSA 974.9 MSA 264.2 SSA 16.0
 EL1 757.3 EL2 264.0 ALF 27.39

LAUNCH DATE DEC 14 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC
 C3 64.624 VHL 8.039 DLA 21.12 RAL 24.57 RAD 6569.2 VEL 13.637 PTH 2.49 VHP 13.754 DPA -1.17 RAP 3.47 ECC 2.0635
 RL 147.25 LAL .00 LOL 82.07 VL 24.558 GAL 11.13 AZL 86.63 HCA 91.26 SMA 110.64 ECC .37771 INC 3.3702 V1 30.257
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.579 GAP -22.14 AZP 90.07 TAL 160.39 TAP 251.65 RCA 68.85 APO 152.43 V2 35.198
 RC 47.437 GL 10.15 GP .80 ZAL 52.31 ZAP 9.42 ETS 185.79 ZAE 154.48 ETE 203.56 ZAC 96.88 ETC 166.52 CLP 9.39

PLANETOCENTRIC CONIC
 C3 64.624 VHL 8.039 DLA 21.12 RAL 24.57 RAD 6569.2 VEL 13.637 PTH 2.49 VHP 13.754 DPA -1.17 RAP 3.47 ECC 2.0635
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 40 3231.24 -25.65 112.93 275.75 77.58 5 19 31 2631.2 -27.11 104.56
 90.00 22 28 58 4423.51 7.19 184.51 263.89 62.54 23 42 41 3823.5 3.45 177.83
 100.00 6 1 17 2922.93 -27.73 90.74 276.25 78.36 6 50 0 2322.9 -29.05 82.19
 100.00 23 36 2 4207.05 9.06 167.60 262.88 61.39 24 46 9 3607.0 5.17 160.97
 110.00 7 39 39 2615.17 -32.94 68.50 277.39 80.29 8 23 14 2015.2 -33.93 59.40
 110.00 0 18 5 4087.57 13.65 155.83 260.17 58.35 1 26 12 3487.6 9.36 149.35

DIFFERENTIAL CORRECTIONS
 TOE -.7938 TRA-1.9144 TC3 -.1760 BAU .1604
 RDE -.5801 RRA .1877 RC3 -.0593 FAU .01751
 FDE .6620 FRA 1.1437 FC3 -.2346 BSP 4982
 BOE .9832 BRA 1.9236 BC3 .1857 FSP -238

MID-COURSE EXECUTION ACCURACY
 SGT 1593.6 SGR 447.8 SG3 91.8
 RRT .0716 RRF -.0711 RTF -.8496
 SGB 1655.3 R23 -.0050 R13 -.8497
 SG1 1593.9 SG2 446.6 THA 1.25

ORBIT DETERMINATION ACCURACY
 ST 716.1 SR 415.7 SS 641.6
 CRT .7226 CRS .8188 CST .9879
 LSA 1014.0 MSA 262.0 SSA 16.1
 EL1 785.4 EL2 262.0 ALF 25.84

LAUNCH DATE DEC 14 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 236.821

RL 147.25 LAL .00 LOL 82.07 VL 24.825 GAL 10.62 AZL 86.65 MCA 94.49 SMA 111.87 ECC .36134 INC 3.3512 V1 30.257
 RP 107.69 LAP 3.34 LOP 176.57 VP 35.754 GAP -21.08 AZP 90.26 TAL 159.96 TAP 254.45 RCA 71.45 APO 152.29 V2 35.189
 RC 46.274 GL 10.67 GP .85 ZAL 51.97 ZAP 8.03 ETS 187.10 ZAE 156.61 ETE 205.97 ZAC 98.65 ETC 166.53 CLP 7.98

PLANETOCENTRIC CONIC

C3 59.352 VHL 7.704 DLA 21.75 RAL 24.78 RAD 6569.1 VEL 13.443 PTH 2.46 VHP 13.157 OPA -.37 RAP 5.12 ECC 1.9768
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 34 3239.49 -25.53 113.50 274.58 77.31 5 12 33 2639.5 -27.02 105.15
 90.00 22 37 47 4374.04 5.63 181.72 263.10 62.20 23 50 41 3774.0 1.86 175.06
 100.00 5 55 8 2928.08 -27.66 91.11 275.10 78.18 6 43 56 2328.1 -29.01 82.56
 100.00 23 43 53 4160.69 7.54 165.00 262.05 60.99 24 53 14 3560.7 3.61 158.41
 110.00 7 35 12 2615.01 -32.94 68.49 276.26 80.30 8 18 47 2015.0 -33.93 59.39
 110.00 0 24 14 4046.52 12.17 153.57 259.28 57.81 1 31 41 3446.5 7.83 147.16

DIFFERENTIAL CORRECTIONS

TDE -.7993 TRA-1.9029 TC3 -.1705 BAU .1442
 RDE -.5497 RRA .1695 RC3 -.0630 FAU .01827
 FDE .6944 FRA 1.1842 FC3 -.2664 BSP 5217
 BOE .9700 BRA 1.9105 BC3 .1818 FSP -262

MID-COURSE EXECUTION ACCURACY

SGT 1656.5 SGR 441.5 SG3 99.8
 RRT .0843 RRF -.0834 RTF -.8591
 SGB 1714.4 R23 -.0055 R13 -.8592
 SG1 1657.0 SG2 439.9 TMA 1.38

ORBIT DETERMINATION ACCURACY

ST 749.9 SR 410.8 SS 670.4
 CRT .7284 CRS .8234 CST .9880
 LSA 1055.1 MSA 259.1 SSA 16.1
 EL1 814.9 EL2 259.0 ALF 24.37

LAUNCH DATE DEC 14 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 243.552

RL 147.25 LAL .00 LOL 82.07 VL 25.073 GAL 10.12 AZL 86.67 MCA 97.73 SMA 113.05 ECC .34578 INC 3.3321 V1 30.257
 RP 107.72 LAP 3.30 LOP 179.81 VP 35.918 GAP -20.06 AZP 90.45 TAL 159.58 TAP 257.30 RCA 73.96 APO 152.14 V2 35.179
 RC 45.244 GL 11.20 GP .91 ZAL 51.69 ZAP 6.63 ETS 188.97 ZAE 158.85 ETE 208.91 ZAC 100.40 ETC 166.52 CLP 6.57

PLANETOCENTRIC CONIC

C3 54.555 VHL 7.386 DLA 22.38 RAL 24.94 RAD 6569.0 VEL 13.263 PTH 2.42 VHP 12.580 OPA -.43 RAP 6.76 ECC 1.8978
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 58 3248.37 -25.40 114.11 273.33 77.03 5 5 6 2648.4 -26.93 105.78
 90.00 22 46 38 4323.80 4.02 178.90 262.28 61.95 23 58 42 3723.8 .24 172.26
 100.00 5 48 36 2933.54 -27.58 91.49 273.87 77.99 6 37 30 2333.5 -28.96 82.96
 100.00 23 51 41 4113.87 5.99 162.39 261.21 60.66 25 0 15 3513.9 2.03 155.83
 110.00 7 30 29 2614.82 -32.94 68.48 275.06 80.30 8 14 3 2014.8 -33.93 59.38
 110.00 0 30 14 4005.35 10.67 151.32 258.37 57.33 1 36 59 3405.4 6.28 144.97

DIFFERENTIAL CORRECTIONS

TDE -.8055 TRA-1.8897 TC3 -.1625 BAU .1281
 RDE -.5202 RRA .1519 RC3 -.0667 FAU .01910
 FDE .7298 FRA 1.2271 FC3 -.3030 BSP 5451
 BOE .9589 BRA 1.8958 BC3 .1757 FSP -288

MID-COURSE EXECUTION ACCURACY

SGT 1720.8 SGR 434.5 SG3 108.6
 RRT .0986 RRF -.0973 RTF -.8681
 SGB 1774.8 R23 -.0059 R13 -.8682
 SG1 1721.4 SG2 432.2 TMA 1.52

ORBIT DETERMINATION ACCURACY

ST 785.3 SR 405.4 SS 701.0
 CRT .7350 CRS .8284 CST .9881
 LSA 1098.6 MSA 255.4 SSA 16.2
 EL1 846.1 EL2 255.1 ALF 22.99

LAUNCH DATE DEC 14 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 250.299

RL 147.25 LAL .00 LOL 82.07 VL 25.305 GAL 9.65 AZL 86.69 MCA 100.96 SMA 114.19 ECC .33101 INC 3.3126 V1 30.257
 RP 107.75 LAP 3.25 LOP 183.05 VP 36.070 GAP -19.07 AZP 90.63 TAL 159.23 TAP 260.19 RCA 76.39 APO 151.98 V2 35.169
 RC 44.357 GL 11.74 GP .97 ZAL 51.46 ZAP 5.24 ETS 191.87 ZAE 161.16 ETE 212.61 ZAC 102.13 ETC 166.49 CLP 5.15

PLANETOCENTRIC CONIC

C3 50.193 VHL 7.085 DLA 23.00 RAL 25.04 RAD 6568.8 VEL 13.098 PTH 2.39 VHP 12.021 OPA 1.24 RAP 8.38 ECC 1.8260
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 50 3258.05 -25.25 114.78 272.00 76.73 4 57 9 2658.0 -26.82 106.47
 90.00 22 55 34 4272.78 2.39 176.04 261.46 61.78 24 6 47 3672.8 -1.41 169.41
 100.00 5 41 40 2939.41 -27.50 91.91 272.57 -77.78 6 30 39 2339.4 -28.90 83.39
 100.00 0 3 22 4066.65 4.41 159.78 260.34 60.40 1 11 8 3466.6 .43 153.24
 110.00 7 25 28 2614.65 -32.94 68.46 273.79 80.31 8 9 3 2014.6 -33.93 59.36
 110.00 0 36 3 3964.17 9.14 149.11 257.43 56.92 1 42 7 3364.2 4.73 142.80

DIFFERENTIAL CORRECTIONS

TDE -.8120 TRA-1.8744 TC3 -.1519 BAU .1123
 RDE -.4918 RRA .1349 RC3 -.0701 FAU .02002
 FDE .7684 FRA 1.2726 FC3 -.3453 BSP 5686
 BOE .9493 BRA 1.8792 BC3 .1673 FSP -316

MID-COURSE EXECUTION ACCURACY

SGT 1785.9 SGR 426.8 SG3 118.3
 RRT .1146 RRF -.1129 RTF -.8766
 SGB 1836.2 R23 -.0065 R13 -.8767
 SG1 1786.6 SG2 423.8 TMA 1.66

ORBIT DETERMINATION ACCURACY

ST 821.8 SR 399.3 SS 733.6
 CRT .7424 CRS .8338 CST .9884
 LSA 1144.4 MSA 251.0 SSA 16.2
 EL1 878.8 EL2 250.2 ALF 21.68

LAUNCH DATE DEC 14 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 257.059

RL 147.25 LAL .00 LOL 82.07 VL 25.521 GAL 9.20 AZL 86.71 MCA 104.19 SMA 115.28 ECC .31702 INC 3.2928 V1 30.257
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.211 GAP -18.12 AZP 90.81 TAL 158.93 TAP 263.11 RCA 78.73 APO 151.82 V2 35.158
 RC 43.625 GL 12.29 GP 1.04 ZAL 51.30 ZAP 3.85 ETS 196.94 ZAE 163.50 ETE 217.38 ZAC 103.84 ETC 166.43 CLP 3.71

PLANETOCENTRIC CONIC

C3 46.227 VHL 6.799 DLA 23.61 RAL 25.09 RAD 6568.7 VEL 12.946 PTH 2.36 VHP 11.481 OPA 2.04 RAP 9.98 ECC 1.7608
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 54 10 3268.72 -25.08 115.52 270.61 76.40 4 48 39 2668.7 -26.70 107.23
 90.00 23 4 37 4220.94 .71 173.15 260.61 61.69 24 14 58 3620.9 -3.07 166.52
 100.00 5 34 19 2945.81 -27.40 92.36 271.21 77.56 6 23 25 2345.8 -28.84 83.85
 100.00 0 11 5 4019.08 2.80 157.16 259.45 60.23 1 18 4 3419.1 -1.18 150.63
 110.00 7 20 12 2614.56 -32.94 68.46 272.46 80.32 8 3 46 2014.6 -33.93 59.36
 110.00 0 41 41 3923.09 7.61 146.91 256.48 56.57 1 47 4 3323.1 3.16 140.65

DIFFERENTIAL CORRECTIONS

TDE -.8193 TRA-1.8572 TC3 -.1383 BAU .0967
 RDE -.4644 RRA .1185 RC3 -.0733 FAU .02104
 FDE .8108 FRA 1.3213 FC3 -.3941 BSP 5921
 BOE .9418 BRA 1.8610 BC3 .1565 FSP -348

MID-COURSE EXECUTION ACCURACY

SGT 1851.9 SGR 418.3 SG3 129.0
 RRT .1327 RRF -.1305 RTF -.8845
 SGB 1898.5 R23 -.0071 R13 -.8846
 SG1 1852.7 SG2 414.4 TMA 1.81

ORBIT DETERMINATION ACCURACY

ST 859.8 SR 392.8 SS 768.4
 CRT .7506 CRS .8397 CST .9886
 LSA 1193.0 MSA 246.0 SSA 16.3
 EL1 913.1 EL2 244.4 ALF 20.46

LAUNCH DATE DEC 14 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 25.722 GAL 8.76 AZL 86.73 MCA 107.42 SMA 116.32 ECC .30379 INC 3.2724 V1 30.257
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.343 GAP -17.20 AZP 90.98 TAL 158.66 TAP 266.08 RCA 80.98 APO 151.65 V2 35.147
 RC 43.055 GL 12.84 GP 1.11 ZAL 51.19 ZAP 2.51 ETS 207.78 ZAE 165.80 ETE 223.73 ZAC 105.53 ETC 166.35 CLP 2.25

PLANETOCENTRIC CONIC

C3 42.624 VHL 6.529 DLA 24.20 RAL 25.08 RAD 6568.6 VEL 12.806 PTH 2.33 VHP 10.958 DPA 2.84 RAP 11.56 ECC 1.7015
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 53 3280.61 -24.88 116.34 269.15 76.03 4 39 34 2680.6 -26.56 108.07
 90.00 23 13 49 4168.23 -9.99 170.21 259.76 61.70 24 23 17 3568.2 -4.76 163.56
 100.00 5 26 33 2952.85 -27.30 92.86 269.79 77.32 6 15 46 2352.9 -28.77 84.37
 100.00 0 18 46 3971.22 1.18 154.53 258.55 60.13 1 24 58 3371.2 -2.80 148.01
 110.00 7 14 39 2614.61 -32.94 68.46 271.07 80.31 7 58 14 2014.6 -33.93 59.36
 110.00 0 47 9 3882.22 6.07 144.75 255.52 56.30 1 51 51 3282.2 1.60 138.52

DIFFERENTIAL CORRECTIONS

TDE -.8266 TRA-1.8383 TC3 -.1210 BAU .0815 SGT 1918.2 SGR 409.3 SG3 140.9 ST 898.8 SR 385.7 SS 805.4
 RDE -.4382 RRA .1027 RC3 -.0761 FAU .02219 RRT .1528 RRF -.1504 RTF -.8921 CRT .7594 CRS .8459 CST .9889
 FDE .8574 FRA 1.3734 FC3 -.4506 BSP 6153 SGB 1961.4 R23 -.0079 R13 -.8921 LSA 1243.9 MSA 240.4 SSA 16.3
 BDE .9356 BRA 1.8411 BC3 .1430 FSP -383 SG1 1919.2 SG2 404.3 THA 1.95 EL1 948.7 EL2 237.8 ALF 19.31

LAUNCH DATE DEC 14 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 25.909 GAL 8.35 AZL 86.75 MCA 110.64 SMA 117.31 ECC .29130 INC 3.2512 V1 30.257
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.464 GAP -16.31 AZP 91.15 TAL 158.44 TAP 269.09 RCA 83.14 APO 151.48 V2 35.135
 RC 42.657 GL 13.40 GP 1.20 ZAL 51.13 ZAP 1.42 ETS 239.12 ZAE 167.95 ETE 232.39 ZAC 107.19 ETC 166.25 CLP .76

PLANETOCENTRIC CONIC

C3 39.353 VHL 6.273 DLA 24.78 RAL 25.01 RAD 6568.5 VEL 12.678 PTH 2.30 VHP 10.453 DPA 3.64 RAP 13.11 ECC 1.6476
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 34 58 3293.97 -24.66 117.25 267.63 75.63 4 29 52 2694.0 -26.40 109.01
 90.00 23 23 14 4114.55 -2.72 167.21 258.90 61.80 24 31 49 3514.5 -6.47 160.54
 100.00 5 18 21 2960.62 -27.18 93.41 268.31 77.05 6 7 42 2360.6 -28.69 84.93
 100.00 0 26 28 3923.13 -.45 151.89 257.64 60.11 1 31 51 3323.1 -4.42 145.36
 110.00 7 8 53 2614.83 -32.94 68.48 269.64 80.30 7 52 28 2014.8 -33.93 59.38
 110.00 0 52 26 3841.69 4.54 142.62 254.54 56.08 1 56 27 3241.7 .05 136.40

DIFFERENTIAL CORRECTIONS

TDE -.8356 TRA-1.8174 TC3 -.1012 BAU .0673 SGT 1985.2 SGR 399.7 SG3 154.0 ST 939.8 SR 378.3 SS 845.0
 RDE -.4132 RRA .0874 RC3 -.0783 FAU .02345 RRT .1761 RRF -.1730 RTF -.8990 CRT .7694 CRS .8526 CST .9894
 FDE .9088 FRA 1.4296 FC3 -.5159 BSP 6376 SGB 2025.0 R23 -.0083 R13 -.8991 LSA 1298.2 MSA 234.1 SSA 16.3
 BDE .9321 BRA 1.8195 BC3 .1280 FSP -422 SG1 1986.5 SG2 393.2 THA 2.11 EL1 986.6 EL2 230.2 ALF 18.24

LAUNCH DATE DEC 14 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 26.083 GAL 7.96 AZL 86.77 MCA 113.87 SMA 118.26 ECC .27953 INC 3.2292 V1 30.257
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.577 GAP -15.45 AZP 91.31 TAL 158.26 TAP 272.13 RCA 85.20 APO 151.31 V2 35.123
 RC 42.436 GL 13.96 GP 1.30 ZAL 51.13 ZAP 1.50 ETS 301.74 ZAE 169.78 ETE 244.34 ZAC 108.81 ETC 166.13 CLP -.75

PLANETOCENTRIC CONIC

C3 36.383 VHL 6.032 DLA 25.34 RAL 24.90 RAD 6568.4 VEL 12.560 PTH 2.28 VHP 9.965 DPA 4.43 RAP 14.63 ECC 1.5988
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 24 19 3309.11 -24.40 118.29 266.06 75.17 4 19 28 2709.1 -26.20 110.08
 90.00 23 32 58 4059.76 -4.47 164.14 258.04 62.01 24 40 38 3459.8 -8.19 157.43
 100.00 5 9 45 2969.21 -27.05 94.01 266.79 76.76 5 59 14 2369.2 -28.60 85.55
 100.00 0 34 10 3874.89 -2.09 149.24 256.72 60.17 1 38 44 3274.9 -6.04 142.69
 110.00 7 2 53 2615.21 -32.94 68.51 268.17 80.29 7 46 29 2015.2 -33.93 59.41
 110.00 0 57 30 3801.65 3.01 140.52 253.55 55.93 2 0 52 3201.6 -1.48 134.31

DIFFERENTIAL CORRECTIONS

TDE -.8423 TRA-1.7939 TC3 -.0751 BAU .0533 SGT 2050.1 SGR 389.7 SG3 168.5 ST 979.9 SR 370.5 SS 887.3
 RDE -.3893 RRA .0726 RC3 -.0798 FAU .02487 RRT .2012 RRF -.1985 RTF -.9058 CRT .7793 CRS .8597 CST .9897
 FDE .9654 FRA 1.4901 FC3 -.5918 BSP 6626 SGB 2086.8 R23 -.0099 R13 -.9059 LSA 1353.7 MSA 227.6 SSA 16.2
 BDE .9279 BRA 1.7954 BC3 .1096 FSP -466 SG1 2051.7 SG2 381.4 THA 2.27 EL1 1023.7 EL2 222.2 ALF 17.26

LAUNCH DATE DEC 14 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 26.244 GAL 7.59 AZL 86.79 MCA 117.09 SMA 119.15 ECC .26845 INC 3.2061 V1 30.257
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.680 GAP -14.63 AZP 91.46 TAL 158.13 TAP 275.22 RCA 87.17 APO 151.14 V2 35.111
 RC 42.394 GL 14.52 GP 1.41 ZAL 51.19 ZAP 2.69 ETS 330.24 ZAE 171.07 ETE 260.32 ZAC 110.39 ETC 165.97 CLP -2.30

PLANETOCENTRIC CONIC

C3 33.689 VHL 5.804 DLA 25.88 RAL 24.74 RAD 6568.3 VEL 12.452 PTH 2.25 VHP 9.493 DPA 5.22 RAP 16.12 ECC 1.5544
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 12 52 3326.40 -24.10 119.46 264.44 74.66 4 8 18 2726.4 -25.97 111.29
 90.00 23 43 7 4003.61 -6.26 160.98 257.19 62.33 24 49 50 3403.6 -9.92 154.21
 100.00 5 0 43 2978.69 -26.90 94.68 265.24 76.44 5 50 22 2378.7 -28.50 86.24
 100.00 0 41 52 3826.56 -3.72 146.58 255.80 60.32 1 45 39 3226.6 -7.64 140.00
 110.00 6 56 43 2615.76 -32.93 68.55 266.67 80.26 7 40 19 2015.8 -33.92 59.45
 110.00 1 2 22 3762.25 1.51 138.46 252.54 55.85 2 5 4 3162.3 -2.98 132.26

DIFFERENTIAL CORRECTIONS

TDE -.8510 TRA-1.7694 TC3 -.0469 BAU .0420 SGT 2116.0 SGR 379.3 SG3 184.6 ST 1022.2 SR 362.5 SS 932.6
 RDE -.3667 RRA .0583 RC3 -.0806 FAU .02645 RRT .2305 RRF -.2273 RTF -.9119 CRT .7905 CRS .8673 CST .9901
 FDE 1.0281 FRA 1.5560 FC3 -.6798 BSP 6852 SGB 2149.7 R23 -.0110 R13 -.9127 LSA 1413.2 MSA 220.5 SSA 16.2
 BDE .9266 BRA 1.7704 BC3 .0932 FSP -515 SG1 2117.8 SG2 368.7 THA 2.44 EL1 1063.3 EL2 213.4 ALF 16.34

LAUNCH DATE DEC 14 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 290.933

RL 147.25 LAL .00 LOL 82.07 VL 26.394 GAL 7.23 AZL 86.82 MCA 120.31 SMA 120.00 ECC .25805 INC 3.1815 V1 30.257
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.776 GAP -13.83 AZP 91.61 TAL 158.03 TAP 278.34 RCA 89.04 APO 150.97 V2 35.099
 RC 42.534 GL 15.07 GP 1.53 ZAL 51.28 ZAP 4.17 ETS 340.27 ZAE 171.56 ETE 279.35 ZAC 111.93 ETC 165.79 CLP -3.88

PLANETOCENTRIC CONIC

C3 31.246 VHL 5.590 OLA 26.40 RAL 24.52 RAD 6568.2 VEL 12.354 PTH 2.23 VHP 9.037 DPA 6.01 RAP 17.57 ECC 1.5142
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 0 28 3346.39 -23.73 120.81 262.76 74.08 3 56 14 2746.4 -25.69 112.69
 90.00 23 53 50 3945.70 -8.08 157.70 256.35 62.77 24 59 35 3345.7 -11.67 150.86
 100.00 4 51 18 2989.09 -26.73 95.40 263.65 76.10 5 41 7 2389.1 -28.38 86.99
 100.00 0 49 37 3778.23 -5.34 143.92 254.87 60.55 1 52 35 3178.2 -9.23 137.28
 110.00 6 50 24 2616.41 -32.92 68.60 265.14 80.23 7 34 1 2016.4 -33.92 59.50
 110.00 1 7 0 3723.68 .03 136.45 251.53 55.82 2 9 3 3123.7 -4.45 130.24

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8565 TRA-1.7403 TC3 -.0103 BAU .0337 SGT 2176.4 SGR 368.6 SG3 202.5 ST 1061.9 SR 354.2 SS 980.2
 RDE -.3453 RRA .0444 RC3 -.0801 FAU .02827 RRT .2624 RRF -.2601 RTF -.9180 CRT .8017 CRS .8752 CST .9905
 FDE 1.0966 FRA 1.6266 FC3 -.7832 BSP 7139 SGB 2207.4 R23 -.0131 R13 -.9182 LSA 1472.5 MSA 213.4 SSA 16.1
 BDE .9235 BRA 1.7409 BC3 .0808 FSP -571 SGI 2178.6 SG2 355.3 THA 2.61 EL1 1100.7 EL2 204.3 ALF 15.52

LAUNCH DATE DEC 14 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 297.702

RL 147.25 LAL .00 LOL 82.07 VL 26.533 GAL 6.90 AZL 86.84 MCA 123.53 SMA 120.80 ECC .24830 INC 3.1554 V1 30.257
 RP 108.01 LAP 2.63 LOP 205.64 VP 36.863 GAP -13.05 AZP 91.74 TAL 157.97 TAP 281.50 RCA 90.81 APO 150.80 V2 35.086
 RC 42.853 GL 15.61 GP 1.68 ZAL 51.43 ZAP 5.75 ETS 344.97 ZAE 171.17 ETE 298.07 ZAC 113.42 ETC 165.59 CLP -5.51

PLANETOCENTRIC CONIC

C3 29.032 VHL 5.388 OLA 26.89 RAL 24.27 RAD 6568.2 VEL 12.264 PTH 2.21 VHP 8.598 DPA 6.79 RAP 18.97 ECC 1.4778
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 46 54 3369.91 -23.28 122.39 261.04 73.41 3 43 4 2769.9 -25.33 114.32
 90.00 0 9 18 3885.32 -9.94 154.24 255.54 63.35 1 14 3 3285.3 -13.44 147.31
 100.00 4 41 31 3000.44 -26.54 96.19 262.03 75.72 5 31 31 2400.4 -28.24 87.81
 100.00 0 57 22 3730.03 -6.95 141.24 253.94 60.85 1 59 33 3130.0 -10.78 134.55
 110.00 6 44 1 2617.10 -32.91 68.65 263.59 80.21 7 27 38 2017.1 -33.92 59.55
 110.00 1 11 21 3686.14 -1.40 134.49 250.51 55.84 2 12 48 3086.1 -5.87 128.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8648 TRA-1.7125 TC3 .0271 BAU .0322 SGT 2239.5 SGR 358.0 SG3 222.6 ST 1104.9 SR 346.1 SS 1032.2
 RDE -.3253 RRA .0308 RC3 -.0785 FAU .03024 RRT .3001 RRF -.2980 RTF -.9234 CRT .8142 CRS .8836 CST .9910
 FDE 1.1738 FRA 1.7052 FC3 -.9018 BSP 7348 SGB 2267.9 R23 -.0150 R13 -.9236 LSA 1537.4 MSA 205.8 SSA 16.0
 BDE .9240 BRA 1.7127 BC3 .0830 FSP -631 SGI 2242.1 SG2 341.1 THA 2.81 EL1 1141.4 EL2 194.5 ALF 14.74

LAUNCH DATE DEC 14 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 304.463

RL 147.25 LAL .00 LOL 82.07 VL 26.661 GAL 6.58 AZL 86.87 MCA 126.74 SMA 121.56 ECC .23918 INC 3.1273 V1 30.257
 RP 108.05 LAP 2.51 LOP 208.85 VP 36.943 GAP -12.30 AZP 91.87 TAL 157.95 TAP 284.69 RCA 92.48 APO 150.63 V2 35.073
 RC 43.347 GL 16.14 GP 1.85 ZAL 51.61 ZAP 7.41 ETS 347.61 ZAE 170.09 ETE 313.45 ZAC 114.85 ETC 165.35 CLP -7.18

PLANETOCENTRIC CONIC

C3 27.025 VHL 5.199 OLA 27.35 RAL 23.98 RAD 6568.1 VEL 12.182 PTH 2.19 VHP 8.174 DPA 7.56 RAP 20.32 ECC 1.4448
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 31 44 3398.45 -22.71 124.29 259.25 72.62 3 28 23 2798.5 -24.88 116.29
 90.00 0 22 8 3821.08 -11.88 150.52 254.76 64.11 1 25 49 3221.1 -15.27 143.48
 100.00 4 31 25 3012.66 -26.33 97.04 260.40 75.32 5 21 37 2412.7 -28.09 88.68
 100.00 1 5 9 3682.10 -8.53 138.56 253.00 61.24 2 6 31 3082.1 -12.30 131.80
 110.00 6 37 38 2617.68 -32.91 68.69 262.04 80.18 7 21 15 2017.7 -33.91 59.60
 110.00 1 15 25 3649.85 -2.79 132.60 249.48 55.92 2 16 15 3049.9 -7.24 126.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8722 TRA-1.6825 TC3 .0694 BAU .0370 SGT 2299.6 SGR 347.6 SG3 244.9 ST 1147.3 SR 338.1 SS 1087.6
 RDE -.3067 RRA .0175 RC3 -.0754 FAU .03247 RRT .3428 RRF -.3411 RTF -.9285 CRT .8272 CRS .8925 CST .9914
 FDE 1.2593 FRA 1.7914 FC3 -1.0400 BSP 7560 SGB 2325.7 R23 -.0174 R13 -.9287 LSA 1604.4 MSA 198.0 SSA 15.8
 BDE .9245 BRA 1.6826 BC3 .1025 FSP -700 SGI 2302.8 SG2 326.1 THA 3.03 EL1 1181.8 EL2 184.4 ALF 14.05

LAUNCH DATE DEC 14 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 311.215

RL 147.25 LAL .00 LOL 82.07 VL 26.780 GAL 6.28 AZL 86.90 MCA 129.95 SMA 122.27 ECC .23068 INC 3.0966 V1 30.257
 RP 108.09 LAP 2.37 LOP 212.07 VP 37.017 GAP -11.58 AZP 91.99 TAL 157.97 TAP 287.92 RCA 94.06 APO 150.47 V2 35.060
 RC 44.011 GL 16.64 GP 2.04 ZAL 51.83 ZAP 9.14 ETS 349.23 ZAE 168.62 ETE 324.94 ZAC 116.21 ETC 165.07 CLP -8.92

PLANETOCENTRIC CONIC

C3 25.208 VHL 5.021 OLA 27.78 RAL 23.66 RAD 6568.0 VEL 12.107 PTH 2.17 VHP 7.765 DPA 8.34 RAP 21.60 ECC 1.4149
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 13 57 3435.41 -21.94 126.72 257.38 71.64 3 11 13 2835.4 -24.25 118.81
 90.00 0 37 20 3749.66 -13.96 146.31 254.06 65.11 1 39 50 3149.7 -17.20 139.13
 100.00 4 21 4 3025.64 -26.11 97.94 258.76 74.90 5 11 29 2425.6 -27.93 89.61
 100.00 1 12 55 3634.66 -10.07 135.88 252.07 61.71 2 13 29 3034.7 -13.78 129.05
 110.00 6 31 20 2617.97 -32.90 68.71 260.48 80.17 7 14 58 2018.0 -33.91 59.62
 110.00 1 19 8 3615.10 -4.11 130.78 248.45 56.04 2 19 23 3015.1 -8.54 124.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8791 TRA-1.6513 TC3 .1154 BAU .0456 SGT 2357.3 SGR 338.0 SG3 270.0 ST 1189.5 SR 330.4 SS 1147.3
 RDE -.2896 RRA .0042 RC3 -.0704 FAU .03495 RRT .3915 RRF -.3906 RTF -.9332 CRT .8408 CRS .9018 CST .9919
 FDE 1.3547 FRA 1.8870 FC3 -1.2002 BSP 7758 SGB 2381.4 R23 -.0205 R13 -.9334 LSA 1674.5 MSA 190.2 SSA 15.6
 BDE .9256 BRA 1.6513 BC3 .1352 FSP -776 SGI 2361.0 SG2 310.5 THA 3.27 EL1 1222.2 EL2 174.1 ALF 13.43

LAUNCH DATE DEC 14 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 317.955

RL 147.25 LAL .00 LOL 82.07 VL 26.889 GAL 6.00 AZL 86.94 MCA 133.16 SMA 122.93 ECC .22275 INC 3.0631 V1 30.257
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.083 GAP -10.88 AZP 92.10 TAL 158.02 TAP 291.18 RCA 95.55 APO 150.32 V2 35.047
 RC 44.838 GL 17.12 GP 2.27 ZAL 52.08 ZAP 10.95 ETS 350.27 ZAE 167.00 ETE 333.38 ZAC 117.49 ETC 164.77 CLP -10.71

PLANETOCENTRIC CONIC

C3 23.562 VHL 4.854 OLA 28.17 RAL 23.30 RAD 6568.0 VEL 12.039 PTH 2.15 VHP 7.371 OPA 9.12 RAP 22.82 ECC 1.3878
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 49 30 3493.98 -20.64 130.52 255.30 70.17 2 47 44 2894.0 -23.15 122.75
 90.00 0 58 59 3657.93 -16.52 140.78 253.58 66.67 1 59 57 3057.9 -19.53 133.41
 100.00 4 10 36 3039.08 -25.87 98.87 257.11 74.47 5 1 15 2439.1 -27.75 90.57
 100.00 1 20 34 3588.06 -11.56 133.23 251.14 62.24 2 20 22 2988.1 -15.19 126.31
 110.00 6 25 14 2617.70 -32.91 68.69 258.93 80.18 7 8 51 2017.7 -33.91 59.60
 110.00 1 22 26 3582.20 -5.36 129.05 247.41 56.19 2 22 8 2982.2 -9.77 122.73

DIFFERENTIAL CORRECTIONS

TDE -.8847 TRA-1.6184 TC3 .1655 BAU .0558
 RDE -.2740 RRA -.0092 RC3 -.0633 FAU .03774
 FDE 1.4605 FRA 1.9929 FC3-1.3866 BSP 7942
 BOE .9261 BRA 1.6184 BC3 .1772 FSP -861

MID-COURSE EXECUTION ACCURACY

SGT 2410.8 SGR 329.4 SG3 298.1
 RRT .4464 RRF -.4467 RTF -.9376
 SGB 2433.2 R23 -.0243 R13 -.9378
 SG1 2415.3 SG2 294.2 THA 3.54

ORBIT DETERMINATION ACCURACY

ST 1230.0 SR 323.4 SS 1210.8
 CRT .8549 CRS .9114 CST .9924
 LSA 1746.5 MSA 182.3 SSA 15.3
 EL1 1261.3 EL2 163.7 ALF 12.89

LAUNCH DATE DEC 14 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 324.681

RL 147.25 LAL .00 LOL 82.07 VL 26.990 GAL 5.73 AZL 86.97 MCA 136.37 SMA 123.55 ECC .21539 INC 3.0257 V1 30.257
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.144 GAP -10.20 AZP 92.19 TAL 158.10 TAP 294.47 RCA 96.94 APO 150.17 V2 35.033
 RC 45.818 GL 17.56 GP 2.54 ZAL 52.35 ZAP 12.84 ETS 350.93 ZAE 165.37 ETE 339.76 ZAC 118.68 ETC 164.42 CLP -12.59

PLANETOCENTRIC CONIC

C3 22.070 VHL 4.698 OLA 28.51 RAL 22.93 RAD 6567.9 VEL 11.977 PTH 2.13 VHP 6.992 OPA 9.90 RAP 23.95 ECC 1.3632
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.51 0 53 37 3654.48 -19.19 141.69 253.13 68.49 1 54 32 3054.5 -21.94 134.08
 93.49 1 51 55 3465.61 -19.17 127.86 253.12 68.48 2 49 41 2865.6 -21.93 120.25
 100.00 4 0 14 3052.44 -25.62 99.78 255.49 74.05 4 51 6 2452.4 -27.56 91.52
 100.00 1 28 0 3542.88 -12.98 130.62 250.21 62.84 2 27 2 2942.9 -16.52 123.62
 110.00 6 19 28 2616.55 -32.92 68.61 257.40 80.23 7 3 5 2016.5 -33.92 59.51
 110.00 1 25 14 3551.54 -6.52 127.43 246.37 56.37 2 24 26 2951.5 -10.90 121.07

DIFFERENTIAL CORRECTIONS

TDE -.8862 TRA-1.5817 TC3 .2229 BAU .0676
 RDE -.2600 RRA -.0228 RC3 -.0534 FAU .04094
 FDE 1.5767 FRA 2.1096 FC3-1.6060 BSP 8163
 BOE .9236 BRA 1.5818 BC3 .2292 FSP -960

MID-COURSE EXECUTION ACCURACY

SGT 2455.9 SGR 322.6 SG3 329.5
 RRT .5069 RRF -.5092 RTF -.9418
 SGB 2477.0 R23 -.0297 R13 -.9421
 SG1 2461.4 SG2 277.4 THA 3.86

ORBIT DETERMINATION ACCURACY

ST 1265.7 SR 317.2 SS 1277.4
 CRT .8691 CRS .9213 CST .9928
 LSA 1817.6 MSA 174.8 SSA 14.9
 EL1 1295.8 EL2 153.3 ALF 12.47

LAUNCH DATE DEC 14 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 331.393

RL 147.25 LAL .00 LOL 82.07 VL 27.082 GAL 5.49 AZL 87.02 MCA 139.58 SMA 124.13 ECC .20858 INC 2.9838 V1 30.257
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.199 GAP -9.55 AZP 92.27 TAL 158.20 TAP 297.78 RCA 98.24 APO 150.02 V2 35.020
 RC 46.944 GL 17.96 GP 2.86 ZAL 52.63 ZAP 14.82 ETS 351.32 ZAE 163.85 ETE 344.79 ZAC 119.76 ETC 164.03 CLP -14.55

PLANETOCENTRIC CONIC

C3 20.718 VHL 4.552 OLA 28.80 RAL 22.56 RAD 6567.8 VEL 11.920 PTH 2.12 VHP 6.628 OPA 10.69 RAP 24.98 ECC 1.3410
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.50 0 35 34 3692.71 -19.75 144.73 251.80 68.60 1 37 7 3092.7 -22.48 137.09
 95.50 2 6 57 3396.93 -19.74 123.05 251.80 68.59 3 3 34 2796.9 -22.47 115.41
 100.00 3 50 18 3064.75 -25.39 100.62 253.89 73.66 4 41 23 2464.7 -27.38 92.39
 100.00 1 34 54 3500.13 -14.30 128.13 249.27 63.47 2 33 14 2900.1 -17.75 121.03
 110.00 6 14 15 2614.05 -32.95 68.42 255.89 80.34 6 57 49 2014.1 -33.93 59.32
 110.00 1 27 26 3523.59 -7.57 125.95 245.32 56.57 2 26 10 2923.6 -11.92 119.55

DIFFERENTIAL CORRECTIONS

TDE -.8882 TRA-1.5457 TC3 .2787 BAU .0780
 RDE -.2479 RRA -.0371 RC3 -.0406 FAU .04446
 FDE 1.7074 FRA 2.2419 FC3-1.8579 BSP 8309
 BOE .9222 BRA 1.5462 BC3 .2816 FSP -1068

MID-COURSE EXECUTION ACCURACY

SGT 2498.9 SGR 318.8 SG3 365.0
 RRT .5747 RRF -.5790 RTF -.9455
 SGB 2519.2 R23 -.0362 R13 -.9458
 SG1 2505.7 SG2 260.2 THA 4.24

ORBIT DETERMINATION ACCURACY

ST 1301.5 SR 312.5 SS 1349.7
 CRT .8841 CRS .9316 CST .9933
 LSA 1893.4 MSA 167.2 SSA 14.5
 EL1 1330.8 EL2 142.8 ALF 12.13

LAUNCH DATE DEC 14 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 338.089

RL 147.25 LAL .00 LOL 82.07 VL 27.167 GAL 5.25 AZL 87.06 MCA 142.78 SMA 124.67 ECC .20228 INC 2.9361 V1 30.257
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.248 GAP -8.91 AZP 92.34 TAL 158.33 TAP 301.11 RCA 99.45 APO 149.89 V2 35.007
 RC 48.205 GL 18.29 GP 3.25 ZAL 52.93 ZAP 16.90 ETS 351.49 ZAE 162.49 ETE 348.96 ZAC 120.73 ETC 163.60 CLP -16.60

PLANETOCENTRIC CONIC

C3 19.491 VHL 4.415 OLA 29.03 RAL 22.18 RAD 6567.8 VEL 11.869 PTH 2.11 VHP 6.278 OPA 11.50 RAP 25.90 ECC 1.3208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.33 0 24 36 3708.65 -20.26 146.12 250.51 68.76 1 26 25 3108.7 -22.97 138.43
 96.67 2 14 54 3351.89 -20.25 119.95 250.50 68.74 3 10 46 2751.9 -22.96 112.27
 100.00 3 41 24 3074.24 -25.20 101.27 252.34 73.37 4 32 38 2474.2 -27.24 93.06
 100.00 1 40 47 3461.54 -15.46 125.85 248.30 64.09 2 38 28 2861.5 -18.82 118.67
 110.00 6 9 46 2609.64 -33.00 68.08 254.41 80.53 6 53 16 2009.6 -33.95 58.98
 110.00 1 28 54 3498.91 -8.49 124.64 244.27 56.76 2 27 13 2898.9 -12.81 118.20

DIFFERENTIAL CORRECTIONS

TDE -.8870 TRA-1.5079 TC3 .3364 BAU .0879
 RDE -.2379 RRA -.0523 RC3 -.0239 FAU .04843
 FDE 1.8516 FRA 2.3902 FC3-2.1512 BSP 8436
 BOE .9183 BRA 1.5088 BC3 .3373 FSP -1190

MID-COURSE EXECUTION ACCURACY

SGT 2534.2 SGR 319.1 SG3 405.0
 RRT .6467 RRF -.6535 RTF -.9488
 SGB 2554.3 R23 -.0448 R13 -.9492
 SG1 2542.7 SG2 242.6 THA 4.70

ORBIT DETERMINATION ACCURACY

ST 1332.6 SR 309.7 SS 1425.9
 CRT .8992 CRS .9419 CST .9937
 LSA 1969.6 MSA 159.8 SSA 14.0
 EL1 1361.7 EL2 132.6 ALF 11.92

LAUNCH DATE DEC 14 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 344.767

RL 147.25 LAL .00 LOL 82.07 VL 27.245 GAL 5.04 AZL 87.12 HCA 145.98 SMA 125.17 ECC .19648 INC 2.8807 V1 30.257
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.292 GAP -8.29 A2P 92.39 TAL 158.48 TAP 304.46 RCA 100.57 APO 149.76 V2 34.994
 RC 49.590 GL 18.55 GP 3.72 ZAL 53.22 ZAP 19.11 ETS 351.48 ZAE 161.34 ETE 352.64 ZAC 121.56 ETC 163.10 CLP -18.76

PLANETOCENTRIC CONIC

C3 18.374 VHL 4.287 DLA 29.18 RAL 21.81 RAD 6567.7 VEL 11.822 PTH 2.09 VHP 5.943 DPA 12.34 RAP 26.68 ECC 1.3024
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.66 0 17 45 3712.14 -20.70 146.55 249.24 68.97 1 19 37 3112.1 -23.38 138.84
 97.34 2 18 51 3320.62 -20.69 117.83 249.24 68.95 3 14 11 2720.6 -23.37 110.11
 100.00 3 34 31 3077.97 -25.13 101.52 250.89 73.26 4 25 49 2478.0 -27.18 93.32
 100.00 1 44 46 3430.03 -16.39 123.97 247.29 64.64 2 41 56 2830.0 -19.67 116.71
 110.00 6 6 19 2602.55 -33.08 67.54 252.98 80.84 6 49 41 2002.5 -33.99 58.42
 110.00 1 29 27 3478.21 -9.26 123.53 243.21 56.95 2 27 25 2878.2 -13.55 117.05

DIFFERENTIAL CORRECTIONS

TOE -.8794 TRA-1.4660 TC3 .4004 BAU .0984
 RDE -.2302 RRA -.0690 RC3 -.0021 FAU .05301
 FDE 2.0076 FRA 2.5554 FC3-2.4976 BSP 8590
 BOE .9091 BRA 1.4677 BC3 .4004 FSP -1332

MID-COURSE EXECUTION ACCURACY

SGT 2556.7 SGR 325.4 SG3 449.7
 RRT .7192 RRF -.7294 RTF -.9521
 SGB 2577.3 R23 -.0566 R13 -.9526
 SG1 2567.5 SG2 225.1 TMA 5.27

ORBIT DETERMINATION ACCURACY

ST 1354.7 SR 309.3 SS 1504.3
 CRT .9141 CRS .9522 CST .9941
 LSA 2042.2 MSA 152.8 SSA 13.3
 EL1 1384.2 EL2 122.8 ALF 11.88

LAUNCH DATE DEC 14 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 351.428

RL 147.25 LAL .00 LOL 82.07 VL 27.316 GAL 4.84 AZL 87.18 HCA 149.18 SMA 125.62 ECC .19115 INC 2.8154 V1 30.257
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.332 GAP -7.70 A2P 92.42 TAL 158.65 TAP 307.82 RCA 101.61 APO 149.64 V2 34.980
 RC 51.091 GL 18.72 GP 4.31 ZAL 53.50 ZAP 21.46 ETS 351.30 ZAE 160.41 ETE 356.09 ZAC 122.23 ETC 162.55 CLP -21.04

PLANETOCENTRIC CONIC

C3 17.356 VHL 4.166 DLA 29.23 RAL 21.48 RAD 6567.7 VEL 11.779 PTH 2.08 VHP 5.623 DPA 13.24 RAP 27.31 ECC 1.2856
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.42 0 14 33 3704.85 -21.06 146.16 248.02 69.25 1 16 18 3104.8 -23.70 138.41
 97.58 2 19 23 3301.36 -21.05 116.55 248.01 69.23 3 14 24 2701.4 -23.68 108.80
 100.00 3 31 2 3071.67 -25.25 101.09 249.56 73.45 4 22 13 2471.7 -27.28 92.88
 100.00 1 45 35 3409.76 -16.97 122.75 246.20 65.02 2 42 25 2809.8 -20.20 115.44
 110.00 6 4 14 2591.81 -33.19 66.73 251.59 81.31 6 47 26 1991.8 -34.03 57.59
 110.00 1 28 52 3462.39 -9.85 122.68 242.15 57.10 2 26 35 2862.4 -14.12 116.18

DIFFERENTIAL CORRECTIONS

TOE -.8705 TRA-1.4253 TC3 .4566 BAU .1061
 RDE -.2255 RRA -.0883 RC3 .0254 FAU .05800
 FDE 2.1810 FRA 2.7459 FC3-2.8932 BSP 8638
 BOE .8992 BRA 1.4281 BC3 .4573 FSP -1485

MID-COURSE EXECUTION ACCURACY

SGT 2573.8 SGR 340.6 SG3 500.4
 RRT .7893 RRF -.8028 RTF -.9547
 SGB 2596.2 R23 -.0722 R13 -.9553
 SG1 2587.8 SG2 208.0 TMA 6.00

ORBIT DETERMINATION ACCURACY

ST 1373.9 SR 313.0 SS 1588.5
 CRT .9290 CRS .9623 CST .9945
 LSA 2118.3 MSA 145.7 SSA 12.7
 EL1 1404.5 EL2 113.3 ALF 12.03

LAUNCH DATE DEC 14 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 358.069

RL 147.25 LAL .00 LOL 82.07 VL 27.380 GAL 4.66 AZL 87.26 HCA 152.37 SMA 126.05 ECC .18628 INC 2.7368 V1 30.257
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.367 GAP -7.12 A2P 92.43 TAL 158.82 TAP 311.19 RCA 102.57 APO 149.53 V2 34.967
 RC 52.697 GL 18.76 GP 5.05 ZAL 53.76 ZAP 23.96 ETS 350.92 ZAE 159.72 ETE 359.58 ZAC 122.70 ETC 161.91 CLP -23.46

PLANETOCENTRIC CONIC

C3 16.421 VHL 4.052 DLA 29.17 RAL 21.20 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 5.319 DPA 14.22 RAP 27.75 ECC 1.2702
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.69 0 15 34 3685.21 -21.32 144.82 246.85 69.61 1 16 59 3085.2 -23.91 137.03
 97.31 2 16 6 3295.53 -21.31 116.23 246.84 69.60 3 11 1 2695.5 -23.90 108.44
 100.00 3 32 22 3050.93 -25.65 99.68 248.39 74.09 4 23 13 2450.9 -27.58 91.41
 100.00 1 41 59 3405.04 -17.11 122.47 244.99 65.11 2 38 44 2805.0 -20.32 115.15
 110.00 6 3 58 2576.16 -33.35 65.53 250.26 82.00 6 46 54 1976.2 -34.09 56.37
 110.00 1 26 53 3452.58 -10.21 122.15 241.08 57.20 2 24 25 2852.6 -14.46 115.63

DIFFERENTIAL CORRECTIONS

TOE -.8529 TRA-1.3798 TC3 .5168 BAU .1143
 RDE -.2242 RRA -.1108 RC3 .0617 FAU .06376
 FDE 2.3631 FRA 2.9582 FC3-3.3617 BSP 8718
 BOE .8818 BRA 1.3843 BC3 .5205 FSP -1665

MID-COURSE EXECUTION ACCURACY

SGT 2573.2 SGR 367.7 SG3 556.8
 RRT .8499 RRF -.8672 RTF -.9571
 SGB 2599.4 R23 -.0933 R13 -.9580
 SG1 2592.3 SG2 192.3 TMA 6.96

ORBIT DETERMINATION ACCURACY

ST 1379.7 SR 321.6 SS 1672.0
 CRT .9430 CRS .9717 CST .9948
 LSA 2187.0 MSA 139.0 SSA 11.8
 EL1 1412.8 EL2 104.5 ALF 12.47

LAUNCH DATE DEC 14 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 364.690

RL 147.25 LAL .00 LOL 82.07 VL 27.439 GAL 4.49 AZL 87.36 HCA 155.57 SMA 126.43 ECC .18185 INC 2.6394 V1 30.257
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.398 GAP -6.55 A2P 92.40 TAL 159.00 TAP 314.57 RCA 103.44 APO 149.42 V2 34.954
 RC 54.398 GL 18.63 GP 6.00 ZAL 53.97 ZAP 26.66 ETS 350.33 ZAE 159.26 ETE 358.38 ZAC 122.94 ETC 161.16 CLP -26.03

PLANETOCENTRIC CONIC

C3 15.556 VHL 3.944 DLA 28.95 RAL 20.99 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 5.031 DPA 15.34 RAP 27.95 ECC 1.2560
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.72 0 22 59 3646.41 -21.45 142.01 245.74 70.09 1 23 45 3046.4 -23.97 134.20
 96.28 2 7 2 3309.73 -21.44 117.33 245.73 70.07 3 2 12 2709.7 -23.96 109.51
 100.00 3 39 22 3013.28 -26.32 97.09 247.39 75.30 4 29 35 2413.3 -28.09 88.73
 100.00 1 33 20 3418.10 -16.73 123.25 243.66 64.86 2 30 19 2818.1 -19.98 115.97
 110.00 6 6 5 2553.86 -33.54 63.82 248.99 83.00 6 48 39 1953.9 -34.15 54.63
 110.00 1 23 7 3450.29 -10.30 122.03 240.00 57.22 2 20 37 2850.3 -14.55 115.50

DIFFERENTIAL CORRECTIONS

TOE -.8239 TRA-1.3279 TC3 .5824 BAU .1233
 RDE -.2270 RRA -.1383 RC3 .1104 FAU .07045
 FDE 2.5468 FRA 3.1931 FC3-3.9209 BSP 8853
 BOE .8546 BRA 1.3351 BC3 .5928 FSP -1878

MID-COURSE EXECUTION ACCURACY

SGT 2550.1 SGR 411.2 SG3 619.2
 RRT .8973 RRF -.9186 RTF -.9595
 SGB 2583.1 R23 -.1207 R13 -.9608
 SG1 2576.8 SG2 179.6 TMA 8.27

ORBIT DETERMINATION ACCURACY

ST 1367.5 SR 336.9 SS 1751.0
 CRT .9557 CRS .9799 CST .9950
 LSA 2243.2 MSA 132.6 SSA 10.9
 EL1 1405.0 EL2 96.6 ALF 13.31

LAUNCH DATE DEC 14 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 27.492 GAL 4.33 AZL 87.49 HCA 158.76 SMA 126.78 ECC .17782 INC 2.5147 V1 30.257
 RP 108.45 LAP .91 LOP 240.85 VP 37.425 GAP -6.01 AZP 92.34 TAL 159.19 TAP 317.94 RCA 104.24 APO 149.33 V2 34.942
 RC 56.186 GL 18.26 GP 7.26 ZAL 54.12 ZAP 29.60 ETS 349.48 ZAE 159.02 ETE 7.85 ZAC 122.89 ETC 160.27 CLP -28.77

PLANETOCENTRIC CONIC

C3 14.743 VHL 3.840 DLA 28.51 RAL 20.89 RAD 6567.6 VEL 11.667 PTH 2.05 VHP 4.761 DPA 16.67 RAP 27.87 ECC 1.2426
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.53 0 45 39 3559.89 -21.42 135.64 244.69 70.72 1 44 59 2959.9 -23.85 127.80
 93.47 1 43 36 3372.19 -21.40 121.90 244.69 70.70 2 39 48 2772.2 -23.84 114.06
 100.00 3 52 9 2958.21 -27.22 93.24 246.52 77.14 4 41 27 2358.2 -28.72 84.76
 100.00 1 19 47 3449.09 -15.83 125.11 242.25 64.31 2 17 16 2849.1 -19.15 117.90
 110.00 6 11 22 2522.43 -33.78 61.40 247.76 84.41 6 53 24 1922.4 -34.18 52.18
 110.00 1 17 4 3457.64 -10.03 122.42 238.92 57.15 2 14 41 2857.6 -14.29 115.91

DIFFERENTIAL CORRECTIONS

TDE -.7623 TRA-1.2500 TC3 .7075 BAU .1441
 RDE -.2329 RRA -.1712 RC3 .1834 FAU .07970
 FDE 2.6855 FRA 3.4168 FC3-4.6802 BSP 9518
 BOE .7971 BRA 1.2617 BC3 .7309 FSP -2197

MID-COURSE EXECUTION ACCURACY

SGT 2468.9 SGR 474.5 SG3 683.8
 RRT .9296 RRF -.9548 RTF -.9635
 SGB 2514.0 R23 -.1484 R13 -.9655
 SG1 2508.1 SG2 172.2 THA 10.18

ORBIT DETERMINATION ACCURACY

ST 1303.8 SR 358.4 SS 1797.8
 CRT .9652 CRS .9865 CST .9949
 LSA 2245.9 MSA 127.3 SSA 9.5
 EL1 1349.1 EL2 90.5 ALF 14.93

LAUNCH DATE DEC 14 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 27.540 GAL 4.20 AZL 87.65 HCA 161.94 SMA 127.10 ECC .17421 INC 2.3487 V1 30.257
 RP 108.49 LAP .73 LOP 244.03 VP 37.448 GAP -5.48 AZP 92.23 TAL 159.36 TAP 321.30 RCA 104.96 APO 149.24 V2 34.929
 RC 58.051 GL 17.53 GP 8.98 ZAL 54.17 ZAP 32.81 ETS 348.27 ZAE 158.87 ETE 13.51 ZAC 122.47 ETC 159.16 CLP -31.69

PLANETOCENTRIC CONIC

C3 13.971 VHL 3.738 DLA 27.75 RAL 20.99 RAD 6567.6 VEL 11.634 PTH 2.04 VHP 4.513 DPA 18.36 RAP 27.41 ECC 1.2299
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 37 3292.73 -24.68 117.17 244.89 75.66 2 59 29 2692.7 -26.41 108.93
 90.00 0 25 23 3615.53 -17.64 138.18 242.38 67.48 1 25 38 3015.5 -20.54 130.71
 100.00 4 11 4 2885.08 -28.22 88.03 245.75 79.70 4 59 9 2285.1 -29.35 79.41
 100.00 1 1 37 3498.41 -14.35 128.03 240.82 63.49 1 59 55 2898.4 -17.79 120.93
 110.00 6 21 2 2478.35 -34.02 57.98 246.58 86.42 7 2 20 1878.3 -34.14 48.73
 110.00 1 8 8 3477.91 -9.28 123.51 237.85 56.95 2 6 6 2877.9 -13.56 117.04

DIFFERENTIAL CORRECTIONS

TDE -.7768 TRA-1.2560 TC3 .5784 BAU .1180
 RDE -.2576 RRA -.2285 RC3 .2536 FAU .08255
 FDE 2.9670 FRA 3.8419 FC3-5.1158 BSP 8013
 BOE .8184 BRA 1.2766 BC3 .6315 FSP -2221

MID-COURSE EXECUTION ACCURACY

SGT 2517.5 SGR 590.3 SG3 770.8
 RRT .9508 RRF -.9787 RTF -.9593
 SGB 2585.8 R23 -.2000 R13 -.9625
 SG1 2579.6 SG2 178.4 THA 12.63

ORBIT DETERMINATION ACCURACY

ST 1357.9 SR 412.4 SS 1937.2
 CRT .9782 CRS .9926 CST .9961
 LSA 2398.6 MSA 115.6 SSA 9.5
 EL1 1416.7 EL2 82.2 ALF 16.60

LAUNCH DATE DEC 14 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 27.582 GAL 4.07 AZL 87.89 HCA 165.13 SMA 127.39 ECC .17095 INC 2.1146 V1 30.257
 RP 108.53 LAP .54 LOP 247.21 VP 37.468 GAP -4.96 AZP 92.04 TAL 159.53 TAP 324.66 RCA 105.61 APO 149.17 V2 34.917
 RC 59.985 GL 16.22 GP 11.45 ZAL 54.08 ZAP 36.43 ETS 346.55 ZAE 158.62 ETE 21.14 ZAC 121.51 ETC 157.75 CLP -34.82

PLANETOCENTRIC CONIC

C3 13.203 VHL 3.634 DLA 26.47 RAL 21.34 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 4.291 DPA 20.65 RAP 26.42 ECC 1.2173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 46 4 3147.85 -26.74 107.06 244.57 80.32 3 38 32 2547.8 -27.81 98.56
 90.00 23 42 49 3735.78 -14.36 145.48 240.50 65.33 24 45 5 3135.8 -17.57 138.28
 100.00 4 37 22 2789.02 -29.19 81.06 244.97 83.25 5 23 51 2189.0 -29.82 72.31
 100.00 0 38 7 3569.84 -12.14 132.18 239.38 62.47 1 37 37 2969.8 -15.73 125.23
 110.00 6 36 56 2414.90 -34.18 53.03 245.35 89.35 7 17 11 1814.9 -33.89 43.80
 110.00 0 55 3 3516.72 -7.83 125.59 236.81 56.62 1 53 39 2916.7 -12.17 119.18

DIFFERENTIAL CORRECTIONS

TDE -.7050 TRA-1.1868 TC3 .6397 BAU .1323
 RDE -.2843 RRA -.2994 RC3 .3908 FAU .09161
 FDE 3.0552 FRA 4.1632 FC3-6.0066 BSP 8252
 BOE .7602 BRA 1.2240 BC3 .7496 FSP -2521

MID-COURSE EXECUTION ACCURACY

SGT 2412.9 SGR 748.1 SG3 846.7
 RRT .9599 RRF -.9911 RTF -.9606
 SGB 2526.2 R23 -.2232 R13 -.9662
 SG1 2518.2 SG2 200.9 THA 16.68

ORBIT DETERMINATION ACCURACY

ST 1276.5 SR 475.4 SS 1964.1
 CRT .9848 CRS .9960 CST .9963
 LSA 2387.8 MSA 106.3 SSA 8.4
 EL1 1359.9 EL2 77.4 ALF 20.21

LAUNCH DATE DEC 14 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 27.620 GAL 3.96 AZL 88.24 HCA 168.31 SMA 127.65 ECC .16806 INC 1.7553 V1 30.257
 RP 108.57 LAP .36 LOP 250.39 VP 37.485 GAP -4.46 AZP 91.72 TAL 159.69 TAP 328.00 RCA 106.19 APO 149.10 V2 34.906
 RC 61.981 GL 13.86 GP 15.23 ZAL 53.79 ZAP 40.65 ETS 344.01 ZAE 157.67 ETE 31.74 ZAC 119.74 ETC 155.83 CLP -38.15

PLANETOCENTRIC CONIC

C3 12.414 VHL 3.523 DLA 24.22 RAL 22.16 RAD 6567.5 VEL 11.567 PTH 2.02 VHP 4.113 DPA 24.04 RAP 24.62 ECC 1.2043
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 50 2986.23 -28.06 95.43 243.99 86.00 4 22 37 2386.2 -28.32 86.77
 90.00 23 2 36 3870.96 -10.38 153.41 238.91 63.51 24 7 7 3271.0 -13.85 146.46
 100.00 5 14 34 2658.24 -29.85 71.40 244.09 88.29 5 58 52 2058.2 -29.77 62.60
 100.00 0 7 29 3674.18 -8.79 138.11 238.07 61.31 1 8 43 3074.2 -12.55 131.35
 110.00 7 2 47 2319.68 -34.00 45.60 244.01 93.74 7 41 26 1719.7 -33.11 36.47
 110.00 0 35 46 3585.50 -5.24 129.22 235.90 56.17 1 35 31 2985.5 -9.64 122.91

DIFFERENTIAL CORRECTIONS

TDE -.6261 TRA-1.1262 TC3 .6531 BAU .1473
 RDE -.3266 RRA -.4150 RC3 .6008 FAU .09895
 FDE 3.0323 FRA 4.5315 FC3-6.9005 BSP 8246
 BOE .7061 BRA 1.2002 BC3 .8874 FSP -2753

MID-COURSE EXECUTION ACCURACY

SGT 2298.1 SGR 1004.4 SG3 919.5
 RRT .9624 RRF -.9970 RTF -.9603
 SGB 2508.0 R23 -.2266 R13 -.9709
 SG1 2495.4 SG2 251.1 THA 23.06

ORBIT DETERMINATION ACCURACY

ST 1183.0 SR 575.8 SS 1953.0
 CRT .9904 CRS .9981 CST .9969
 LSA 2353.1 MSA 91.5 SSA 7.7
 EL1 1313.8 EL2 71.8 ALF 25.82

LAUNCH DATE DEC 14 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 27.654 GAL 3.87 AZL 88.87 MCA 171.49 SMA 127.88 ECC .16552 INC 1.1337 V1 30.257
 RP 108.60 LAP .17 LOP 253.57 VP 37.500 GAP -3.97 AZP 91.12 TAL 159.83 TAP 331.32 RCA 106.71 APO 149.04 V2 34.894
 RC 64.032 GL 9.23 GP 21.59 ZAL 53.22 ZAP 46.00 ETS 340.09 ZAE 154.52 ETE 45.92 ZAC 116.47 ETC 153.07 CLP -41.66

PLANETOCENTRIC CONIC

C3 11.581 VHL 3.403 DLA 19.88 RAL 23.90 RAD 6567.4 VEL 11.531 PTH 2.01 VHP 4.024 DPA 29.69 RAP 21.30 ECC 1.1906
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 37 27 2764.84 -28.04 79.26 243.09 94.09 5 23 31 2164.8 -27.18 70.70
 90.00 22 11 51 4063.08 -4.37 164.33 237.91 61.99 23 19 35 3463.1 -8.08 157.62
 100.00 6 11 27 2461.72 -29.35 56.83 242.96 95.92 6 52 28 1861.7 -28.22 48.21
 100.00 23 20 32 3841.43 -3.22 147.40 237.28 60.27 24 24 34 3241.4 -7.15 140.83
 110.00 7 46 52 2163.19 -32.66 33.60 242.40 100.71 8 22 55 1563.2 -30.83 24.85
 110.00 0 5 33 3712.73 -3.39 135.88 235.51 55.82 1 7 25 3112.7 -4.87 129.66

DIFFERENTIAL CORRECTIONS

TDE -.5225 TRA-1.0649 TC3 .6480 BAU .1807
 ROE -.3788 RRA -.6200 RC3 .9706 FAU .10327
 FDE 2.6867 FRA 4.8376 FC3-7.7198 BSP 8533
 BOE .6453 BRA 1.2322 BC3 1.1670 FSP -2911

MID-COURSE EXECUTION ACCURACY

SGT 2145.5 SGR 1440.6 SG3 958.5
 RRT .9605 RRF -.9992 RTF -.9582
 SGB 2584.3 R23 -.1995 R13 -.9791
 SG1 2562.4 SG2 335.7 TMA 33.47

ORBIT DETERMINATION ACCURACY

ST 1049.3 SR 719.8 SS 1814.4
 CRT .9954 CRS .9992 CST .9983
 LSA 2215.2 MSA 63.6 SSA 8.3
 EL1 1271.2 EL2 57.2 ALF 34.40

LAUNCH DATE DEC 14 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 27.684 GAL 3.79 AZL 90.22 MCA 174.67 SMA 128.08 ECC .16330 INC .2279 V1 30.257
 RP 108.64 LAP -.02 LOP 256.74 VP 37.511 GAP -3.49 AZP 89.78 TAL 159.94 TAP 334.61 RCA 107.16 APO 148.99 V2 34.883
 RC 66.131 GL -1.84 GP 33.93 ZAL 52.79 ZAP 54.13 ETS 333.73 ZAE 145.17 ETE 61.90 ZAC 109.80 ETC 148.99 CLP -45.08

PLANETOCENTRIC CONIC

C3 10.946 VHL 3.309 DLA 9.51 RAL 27.90 RAD 6567.4 VEL 11.504 PTH 2.00 VHP 4.229 DPA 40.52 RAP 14.07 ECC 1.1801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 23 2379.55 -23.20 52.21 242.49 106.71 7 9 3 1779.6 -20.69 44.44
 90.00 20 51 52 4425.04 7.24 184.60 239.64 62.55 22 5 37 3825.0 3.50 177.91
 100.00 7 55 24 2102.15 -24.13 31.49 242.17 108.19 8 30 26 1502.2 -21.42 23.74
 100.00 22 8 32 4177.67 8.10 165.95 239.17 61.13 23 18 10 3577.7 4.19 159.35
 110.00 9 14 16 1855.37 -26.61 11.74 241.16 112.29 9 45 11 1255.4 -23.55 4.09
 110.00 23 6 10 3997.22 10.37 150.88 237.80 57.24 24 12 47 3397.2 5.98 144.54

DIFFERENTIAL CORRECTIONS

TDE -.3898 TRA-1.0203 TC3 .5943 BAU .2570
 ROE -.3853 RRA-1.0555 RC3 1.6527 FAU .09426
 FDE 1.6413 FRA 4.7466 FC3-7.4546 BSP 9705
 BOE .5481 BRA 1.4680 BC3 1.7563 FSP -2697

MID-COURSE EXECUTION ACCURACY

SGT 1954.4 SGR 2253.0 SG3 872.1
 RRT .9540 RRF -.9999 RTF -.9525
 SGB 2982.6 R23 -.1343 R13 -.9908
 SG1 2948.8 SG2 447.8 TMA 49.25

ORBIT DETERMINATION ACCURACY

ST 863.0 SR 869.2 SS 1384.1
 CRT .9995 CRS .9996 CST .9985
 LSA 1847.8 MSA 41.1 SSA 8.4
 EL1 1224.7 EL2 20.1 ALF 45.21

LAUNCH DATE DEC 14 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 27.710 GAL 3.72 AZL 95.52 MCA 177.83 SMA 128.25 ECC .16140 INC 5.5216 V1 30.257
 RP 108.67 LAP -.21 LOP 259.91 VP 37.520 GAP -3.03 AZP 84.48 TAL 160.02 TAP 337.85 RCA 107.55 APO 148.95 V2 34.873
 RC 68.274 GL -38.30 GP 62.27 ZAL 62.67 ZAP 70.68 ETS 323.27 ZAE 118.58 ETE 72.62 ZAC 94.10 ETC 143.36 CLP -44.67

PLANETOCENTRIC CONIC

C3 18.436 VHL 4.294 DLA -25.00 RAL 40.05 RAD 6567.7 VEL 11.824 PTH 2.09 VHP 6.554 DPA 63.64 RAP 345.78 ECC 1.3034
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 12 29 7 1269.85 9.06 346.93 262.76 116.94 12 50 17 669.8 12.61 340.04
 90.00 16 29 1 5764.48 27.04 274.07 268.81 98.75 18 5 5 5164.5 27.97 265.52
 100.00 13 27 39 1080.88 7.12 332.00 261.71 119.11 13 45 40 480.9 10.95 325.30
 100.00 18 13 10 5428.68 29.22 249.69 269.14 96.59 19 43 39 4828.7 29.83 240.94
 110.00 13 52 36 1002.59 2.91 323.47 259.11 124.07 14 9 19 402.6 7.36 317.22
 110.00 20 4 42 5079.73 34.15 223.61 269.56 91.61 21 29 22 4479.7 34.00 214.37

DIFFERENTIAL CORRECTIONS

TDE -.3051 TRA-1.1845 TC3 .2686 BAU .3712
 ROE .0903 RRA-2.3392 RC3 1.4818 FAU .03855
 FDE -.0873 FRA 2.9092 FC3-1.8102 BSP 12842
 BOE .3182 BRA 2.6220 BC3 1.5059 FSP -1237

MID-COURSE EXECUTION ACCURACY

SGT 1805.7 SGR 3673.6 SG3 393.8
 RRT .9423 RRF -1.0000 RTF -.9454
 SGB 4093.4 R23 -.0545 R13 -.9985
 SG1 4056.7 SG2 547.2 TMA 64.65

ORBIT DETERMINATION ACCURACY

ST 663.0 SR 1040.9 SS 731.1
 CRT .7126 CRS .9997 CST .7304
 LSA 1368.9 MSA 428.7 SSA .1
 EL1 1161.6 EL2 416.8 ALF 61.61

LAUNCH DATE DEC 14 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

RL 147.25 LAL .00 LOL 82.07 VL 27.732 GAL 3.65 AZL 68.67 MCA 181.09 SMA 128.41 ECC .15966 INC 21.3283 V1 30.257
 RP 108.70 LAP -.40 LOP 263.09 VP 37.527 GAP -2.55 AZP 111.33 TAL 160.16 TAP 341.25 RCA 107.91 APO 148.91 V2 34.862
 RC 70.456 GL 64.15 GP -80.11 ZAL 80.02 ZAP 80.94 ETS 86.34 ZAE 94.92 ETE 333.19 ZAC 113.08 ETC 262.86 CLP -23.48

PLANETOCENTRIC CONIC

C3 125.143 VHL 11.187 DLA 60.69 RAL 329.12 RAD 6570.3 VEL 15.700 PTH 2.79 VHP 11.732 DPA -57.19 RAP 86.82 ECC 3.0595
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.79 16 55 27 4810.75 -13.37 234.08 231.46 30.21 18 15 38 4210.8 -20.25 230.21
 146.21 2 36 50 3135.10 -13.36 96.30 231.45 30.21 3 29 5 2535.1 -20.24 92.44
 33.79 16 55 27 4810.75 -13.37 234.08 231.46 30.21 18 15 38 4210.8 -20.25 230.21
 146.21 2 36 50 3135.10 -13.36 96.30 231.45 30.21 3 29 5 2535.1 -20.24 92.44
 33.79 16 55 27 4810.75 -13.37 234.08 231.46 30.21 18 15 38 4210.8 -20.25 230.21
 146.21 2 36 50 3135.10 -13.36 96.30 231.45 30.21 3 29 5 2535.1 -20.24 92.44

DIFFERENTIAL CORRECTIONS

TDE -8.5848 TRA .0824 TC3 -.1123 BAU .1887
 ROE 2.3637 RRA -.6134 RC3 -.0105 FAU -.00557
 FDE 3.6400 FRA -.1476 FC3 .0385 BSP 11772
 BOE 8.9042 BRA .6189 BC3 .1128 FSP -434

MID-COURSE EXECUTION ACCURACY

SGT 4404.9 SGR 1370.4 SG3 161.8
 RRT -.8900 RRF .9173 RTF -.9980
 SGB 4613.2 R23 -.0268 R13 .9996
 SG1 4573.8 SG2 601.8 TMA 164.24

ORBIT DETERMINATION ACCURACY

ST 4397.0 SR 1225.8 SS 1890.4
 CRT -.9885 CRS -.9912 CST .9998
 LSA 4937.4 MSA 179.3 SSA .5
 EL1 4561.2 EL2 178.7 ALF 164.57

LAUNCH DATE DEC 14 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 423.358

RL 147.25 LAL .00 LOL 82.07 VL 27.751 GAL 3.62 AZL 82.07 MCA 184.22 SMA 128.54 ECC .15838 INC 7.9241 V1 30.257
 RP 108.73 LAP -.58 LOP 266.25 VP 37.532 GAP -2.12 AZP 97.90 TAL 160.15 TAP 344.37 RCA 108.18 APO 148.90 V2 34.853
 RC 72.672 GL 48.17 GP -45.06 ZAL 67.96 ZAP 68.32 ETS 26.81 ZAE 132.10 ETE 286.70 ZAC 122.75 ETC 196.68 CLP -58.46

PLANETOCENTRIC CONIC

C3 26.263 VHL 5.125 DLA 53.25 RAL 357.59 RAD 6568.1 VEL 12.151 PTH 2.18 VMP 4.212 DPA -32.82 RAP 46.06 ECC 1.4322
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.81 19 13 24 4391.37 -31.42 210.24 240.46 44.52 20 26 35 3791.4 -36.94 203.65
 137.19 4 5 59 2813.97 -31.41 84.30 240.44 44.51 4 52 53 2214.0 -36.93 77.70
 42.81 19 13 24 4391.37 -31.42 210.24 240.46 44.52 20 26 35 3791.4 -36.94 203.65
 137.19 4 5 59 2813.97 -31.41 84.30 240.44 44.51 4 52 53 2214.0 -36.93 77.70
 42.81 19 13 24 4391.37 -31.42 210.24 240.46 44.52 20 26 35 3791.4 -36.94 203.65
 137.19 4 5 59 2813.97 -31.41 84.30 240.44 44.51 4 52 53 2214.0 -36.93 77.70

DIFFERENTIAL CORRECTIONS

TOE -.8553 TRA -.5585 TC3 .0698 BAU .2751
 ROE 2.5936 RRA .6112 RC3 -.7804 FAU .07755
 FOE 8.1377 FRA 2.1297 FC3-2.5563 BSP 10705
 BOE 2.7310 BRA .8280 BC3 .7835 FSP -2684

MID-COURSE EXECUTION ACCURACY

SGT 1417.3 SGR 3217.6 SG3 887.3
 RRT -.8820 RRF .9993 RTF -.8959
 SGB 3515.9 R23 -.0415 R13 .9989
 SG1 3460.6 SG2 621.1 TMA 111.98

ORBIT DETERMINATION ACCURACY

ST 1006.2 SR 2920.0 SS 3339.6
 CRT -.9803 CRS -.9999 CST .9827
 LSA 4544.8 MSA 189.2 SSA 1.7
 EL1 3082.7 EL2 188.3 ALF 108.74

LAUNCH DATE DEC 14 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 429.760

RL 147.25 LAL .00 LOL 82.07 VL 27.766 GAL 3.59 AZL 84.04 MCA 187.39 SMA 128.65 ECC .15731 INC 5.9646 V1 30.257
 RP 108.76 LAP -.77 LOP 269.42 VP 37.536 GAP -1.69 AZP 95.92 TAL 160.14 TAP 347.53 RCA 108.41 APO 148.88 V2 34.844
 RC 74.919 GL 41.08 GP -30.28 ZAL 64.14 ZAP 68.10 ETS 16.10 ZAE 147.49 ETE 283.43 ZAC 122.54 ETC 184.53 CLP -64.41

PLANETOCENTRIC CONIC

C3 19.205 VHL 4.382 DLA 47.82 RAL 4.88 RAD 6567.8 VEL 11.857 PTH 2.10 VMP 3.386 DPA -20.50 RAP 36.57 ECC 1.3161
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.71 20 4 26 4263.99 -32.07 197.83 240.30 52.41 21 15 30 3664.0 -36.70 190.34
 130.29 4 13 6 2789.57 -32.05 82.46 240.29 52.40 4 59 36 2189.6 -36.69 74.97
 49.71 20 4 26 4263.99 -32.07 197.83 240.30 52.41 21 15 30 3664.0 -36.70 190.34
 130.29 4 13 6 2789.57 -32.05 82.46 240.29 52.40 4 59 36 2189.6 -36.69 74.97
 49.71 20 4 26 4263.99 -32.07 197.83 240.30 52.41 21 15 30 3664.0 -36.70 190.34
 130.29 4 13 6 2789.57 -32.05 82.46 240.29 52.40 4 59 36 2189.6 -36.69 74.97

DIFFERENTIAL CORRECTIONS

TOE -.3573 TRA -.4600 TC3 -.0295 BAU .2204
 ROE 1.5089 RRA .5783 RC3 -.8581 FAU .12829
 FOE 9.5376 FRA 3.9973 FC3-5.7829 BSP 8202
 BOE 1.5506 BRA .7390 BC3 .8586 FSP -4165

MID-COURSE EXECUTION ACCURACY

SGT 1010.5 SGR 2392.8 SG3 1343.4
 RRT -.7902 RRF .9992 RTF -.8061
 SGB 2597.4 R23 -.0550 R13 .9981
 SG1 2530.6 SG2 585.5 TMA 109.54

ORBIT DETERMINATION ACCURACY

ST 538.9 SR 2001.6 SS 3711.7
 CRT -.9385 CRS -.9999 CST .9437
 LSA 4247.4 MSA 180.8 SSA 2.3
 EL1 2065.0 EL2 180.4 ALF 104.29

LAUNCH DATE DEC 14 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 436.145

RL 147.25 LAL .00 LOL 82.07 VL 27.779 GAL 3.58 AZL 84.82 MCA 190.56 SMA 128.74 ECC .15649 INC 5.1775 V1 30.257
 RP 108.78 LAP -.95 LOP 272.59 VP 37.537 GAP -1.26 AZP 95.09 TAL 160.09 TAP 350.65 RCA 108.59 APO 148.88 V2 34.835
 RC 77.194 GL 37.51 GP -22.84 ZAL 62.37 ZAP 71.61 ETS 10.27 ZAE 155.60 ETE 277.28 ZAC 120.28 ETC 178.62 CLP -69.98

PLANETOCENTRIC CONIC

C3 16.881 VHL 4.109 DLA 44.92 RAL 7.93 RAD 6567.7 VEL 11.759 PTH 2.08 VMP 3.088 DPA -14.62 RAP 31.28 ECC 1.2778
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.55 20 30 30 4198.59 -31.54 191.21 239.95 56.19 21 40 29 3598.6 -35.74 183.44
 126.45 4 11 23 2794.83 -31.53 82.51 239.94 56.18 4 57 58 2194.8 -35.73 74.74
 53.55 20 30 30 4198.59 -31.54 191.21 239.95 56.19 21 40 29 3598.6 -35.74 183.44
 126.45 4 11 23 2794.83 -31.53 82.51 239.94 56.18 4 57 58 2194.8 -35.73 74.74
 53.55 20 30 30 4198.59 -31.54 191.21 239.95 56.19 21 40 29 3598.6 -35.74 183.44
 126.45 4 11 23 2794.83 -31.53 82.51 239.94 56.18 4 57 58 2194.8 -35.73 74.74

DIFFERENTIAL CORRECTIONS

TOE -.0750 TRA -.3364 TC3 -.2078 BAU .1820
 ROE 1.0843 RRA .4986 RC3 -.7791 FAU .15590
 FOE10.0560 FRA 5.1684 FC3-7.9948 BSP 6339
 BOE 1.0869 BRA .6015 BC3 .8063 FSP -4989

MID-COURSE EXECUTION ACCURACY

SGT 692.1 SGR 1913.2 SG3 1601.1
 RRT -.5282 RRF .9986 RTF -.5527
 SGB 2034.6 R23 -.0322 R13 .9985
 SG1 1951.3 SG2 576.2 TMA 101.87

ORBIT DETERMINATION ACCURACY

ST 224.7 SR 1540.6 SS 3829.6
 CRT -.6260 CRS -.9998 CST .6429
 LSA 4130.3 MSA 175.2 SSA 3.1
 EL1 1547.1 EL2 174.5 ALF 95.28

LAUNCH DATE DEC 14 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 442.510

RL 147.25 LAL .00 LOL 82.07 VL 27.789 GAL 3.57 AZL 85.25 MCA 193.73 SMA 128.80 ECC .15592 INC 4.7509 V1 30.257
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.537 GAP -.84 AZP 94.62 TAL 160.01 TAP 353.73 RCA 108.72 APO 148.89 V2 34.827
 RC 79.493 GL 35.37 GP -18.41 ZAL 61.31 ZAP 76.38 ETS 6.65 ZAE 160.29 ETE 266.65 ZAC 117.57 ETC 175.22 CLP -75.63

PLANETOCENTRIC CONIC

C3 15.752 VHL 3.969 DLA 43.16 RAL 9.67 RAD 6567.6 VEL 11.711 PTH 2.06 VMP 2.932 DPA -11.54 RAP 27.23 ECC 1.2592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.96 20 46 53 4157.84 -31.02 187.13 239.80 58.34 21 56 11 3557.8 -34.95 179.23
 124.04 4 8 55 2803.97 -31.01 82.95 239.79 58.33 4 55 39 2204.0 -34.94 75.06
 55.96 20 46 53 4157.84 -31.02 187.13 239.80 58.34 21 56 11 3557.8 -34.95 179.23
 124.04 4 8 55 2803.97 -31.01 82.95 239.79 58.33 4 55 39 2204.0 -34.94 75.06
 55.96 20 46 53 4157.84 -31.02 187.13 239.80 58.34 21 56 11 3557.8 -34.95 179.23
 124.04 4 8 55 2803.97 -31.01 82.95 239.79 58.33 4 55 39 2204.0 -34.94 75.06

DIFFERENTIAL CORRECTIONS

TOE .1663 TRA -.1953 TC3 -.4268 BAU .1706
 ROE .8632 RRA .4312 RC3 -.6883 FAU .17355
 FOE10.2935 FRA 5.9477 FC3-9.5381 BSP 5053
 BOE .8791 BRA .4734 BC3 .8099 FSP -5547

MID-COURSE EXECUTION ACCURACY

SGT 567.3 SGR 1606.1 SG3 1763.7
 RRT .1695 RRF .9974 RTF .1367
 SGB 1703.4 R23 .0563 R13 .9963
 SG1 1609.4 SG2 558.0 TMA 86.11

ORBIT DETERMINATION ACCURACY

ST 266.8 SR 1272.2 SS 3869.3
 CRT .7944 CRS -.9995 CST -.7755
 LSA 4078.2 MSA 171.7 SSA 3.9
 EL1 1290.1 EL2 159.8 ALF 80.39

LAUNCH DATE DEC 14 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 448.853

RL 147.25 LAL .00 LOL 82.07 VL 27.797 GAL 3.59 AZL 85.52 MCA 196.89 SMA 128.86 ECC .15558 INC 4.4822 VI 30.257
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.536 GAP -.43 AZP 94.29 TAL 159.88 TAP 356.78 RCA 108.81 APO 148.90 V2 34.820
 RC 81.813 GL 33.90 GP -15.43 ZAL 60.54 ZAP 81.69 ETS 4.16 ZAE 162.60 ETE 251.88 ZAC 114.72 ETC 173.02 CLP -81.37

PLANETOCENTRIC CONIC

C3 15.108 VHL 3.887 DLA 41.98 RAL 10.88 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 2.841 DPA -9.85 RAP 23.69 ECC 1.2486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.61 20 58 34 4129.85 -30.58 184.35 239.84 59.71 22 7 24 3529.9 -34.35 176.40
 122.39 4 6 54 2813.14 -30.57 83.45 239.83 59.70 4 53 47 2213.1 -34.34 75.50
 57.61 20 58 34 4129.85 -30.58 184.35 239.84 59.71 22 7 24 3529.9 -34.35 176.40
 122.39 4 6 54 2813.14 -30.57 83.45 239.83 59.70 4 53 47 2213.1 -34.34 75.50
 57.61 20 58 34 4129.85 -30.58 184.35 239.84 59.71 22 7 24 3529.9 -34.35 176.40
 122.39 4 6 54 2813.14 -30.57 83.45 239.83 59.70 4 53 47 2213.1 -34.34 75.50

DIFFERENTIAL CORRECTIONS

TDE .3945 TRA -.0432 TC3 -.6764 BAU .1833
 ROE .7255 RRA .3760 RC3 -.6048 FAU .18558
 FDE10.3483 FRA 6.4736 FC-10.6346 BSP 4347
 BOE .8258 BRA .3785 BC3 .9073 FSP -5949

MID-COURSE EXECUTION ACCURACY

SGT 788.6 SGR 1385.9 SG3 1864.7
 RRT .7368 RRF .9953 RTF .7119
 SGB 1594.6 R23 .1820 R13 .9790
 SG1 1518.5 SG2 486.7 TMA 64.44

ORBIT DETERMINATION ACCURACY

ST 582.3 SR 1092.7 SS 3862.2
 CRT .9687 CRS -.9992 CST -.9578
 LSA 4052.3 MSA 169.7 SSA 4.7
 EL1 1231.5 EL2 128.2 ALF 62.37

LAUNCH DATE DEC 14 1968

FLIGHT TIME 168.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 455.176

RL 147.25 LAL .00 LOL 82.07 VL 27.802 GAL 3.61 AZL 85.70 MCA 200.06 SMA 128.89 ECC .15547 INC 4.2963 VI 30.257
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.533 GAP -.03 AZP 94.04 TAL 159.71 TAP 359.77 RCA 108.85 APO 148.93 V2 34.813
 RC 84.153 GL 32.81 GP -13.25 ZAL 59.90 ZAP 87.23 ETS 2.34 ZAE 162.84 ETE 235.60 ZAC 111.86 ETC 171.47 CLP -87.15

PLANETOCENTRIC CONIC

C3 14.718 VHL 3.836 DLA 41.12 RAL 11.86 RAD 6567.6 VEL 11.666 PTH 2.05 VHP 2.793 DPA -8.92 RAP 20.44 ECC 1.2422
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.83 21 7 43 4109.49 -30.22 182.34 240.04 60.66 22 16 13 3509.5 -33.87 174.36
 121.17 4 5 31 2821.82 -30.20 83.96 240.03 60.65 4 52 33 2221.8 -33.86 75.98
 58.83 21 7 43 4109.49 -30.22 182.34 240.04 60.66 22 16 13 3509.5 -33.87 174.36
 121.17 4 5 31 2821.82 -30.20 83.96 240.03 60.65 4 52 33 2221.8 -33.86 75.98
 58.83 21 7 43 4109.49 -30.22 182.34 240.04 60.66 22 16 13 3509.5 -33.87 174.36
 121.17 4 5 31 2821.82 -30.20 83.96 240.03 60.65 4 52 33 2221.8 -33.86 75.98

DIFFERENTIAL CORRECTIONS

TDE .6154 TRA .1168 TC3 -.9451 BAU .2130
 ROE .6285 RRA .3287 RC3 -.5281 FAU .19326
 FDE10.2304 FRA 6.7984 FC-11.3683 BSP 4367
 BOE .8797 BRA .3488 BC3 1.0826 FSP -6235

MID-COURSE EXECUTION ACCURACY

SGT 1193.4 SGR 1212.4 SG3 1914.9
 RRT .9037 RRF .9921 RTF .8881
 SGB 1701.3 R23 .2334 R13 .9645
 SG1 1659.8 SG2 373.3 TMA 45.50

ORBIT DETERMINATION ACCURACY

ST 922.0 SR 958.9 SS 3814.1
 CRT .9915 CRS -.9986 CST -.9832
 LSA 4035.9 MSA 168.5 SSA 5.4
 EL1 1327.5 EL2 86.5 ALF 46.13

LAUNCH DATE DEC 14 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 461.477

RL 147.25 LAL .00 LOL 82.07 VL 27.805 GAL 3.65 AZL 85.84 MCA 203.23 SMA 128.91 ECC .15557 INC 4.1593 VI 30.257
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.530 GAP -.37 AZP 93.82 TAL 159.50 TAP 373.73 RCA 108.86 APO 148.97 V2 34.807
 RC 86.508 GL 31.92 GP -11.56 ZAL 59.31 ZAP 92.83 ETS .96 ZAE 161.45 ETE 221.27 ZAC 109.09 ETC 170.31 CLP -92.88

PLANETOCENTRIC CONIC

C3 14.486 VHL 3.806 DLA 40.47 RAL 12.73 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.778 DPA -8.42 RAP 17.43 ECC 1.2384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.79 21 15 24 4094.20 -29.89 180.82 240.38 61.34 22 23 39 3494.2 -33.46 172.82
 120.21 4 4 46 2830.07 -29.88 84.46 240.37 61.33 4 51 56 2230.1 -33.45 76.46
 59.79 21 15 24 4094.20 -29.89 180.82 240.38 61.34 22 23 39 3494.2 -33.46 172.82
 120.21 4 4 46 2830.07 -29.88 84.46 240.37 61.33 4 51 56 2230.1 -33.45 76.46
 59.79 21 15 24 4094.20 -29.89 180.82 240.38 61.34 22 23 39 3494.2 -33.46 172.82
 120.21 4 4 46 2830.07 -29.88 84.46 240.37 61.33 4 51 56 2230.1 -33.45 76.46

DIFFERENTIAL CORRECTIONS

TDE .8292 TRA .2818 TC3-1.2253 BAU .2528
 ROE .5567 RRA .2889 RC3 -.4498 FAU .19472
 FDE10.0006 FRA 7.0025 FC-11.6372 BSP 5028
 BOE .9987 BRA .4035 BC3 1.3052 FSP -6306

MID-COURSE EXECUTION ACCURACY

SGT 1655.0 SGR 1070.6 SG3 1926.4
 RRT .9505 RRF .9874 RTF .9426
 SGB 1971.1 R23 .2072 R13 .9655
 SG1 1950.7 SG2 282.3 TMA 32.35

ORBIT DETERMINATION ACCURACY

ST 1259.7 SR 855.4 SS 3748.9
 CRT .9976 CRS -.9977 CST -.9907
 LSA 4042.9 MSA 168.4 SSA 6.2
 EL1 1521.9 EL2 49.1 ALF 34.16

LAUNCH DATE DEC 14 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 467.758

RL 147.25 LAL .00 LOL 82.07 VL 27.805 GAL 3.70 AZL 85.95 MCA 206.39 SMA 128.92 ECC .15590 INC 4.0537 VI 30.257
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.525 GAP -.76 AZP 93.63 TAL 159.25 TAP 5.64 RCA 108.82 APO 149.01 V2 34.802
 RC 88.877 GL 31.17 GP -10.19 ZAL 58.73 ZAP 98.36 ETS 359.88 ZAE 159.02 ETE 210.39 ZAC 106.46 ETC 169.43 CLP -98.49

PLANETOCENTRIC CONIC

C3 14.366 VHL 3.790 DLA 39.94 RAL 13.56 RAD 6567.6 VEL 11.651 PTH 2.05 VHP 2.791 DPA -8.17 RAP 14.64 ECC 1.2364
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.57 21 22 15 4082.41 -29.60 179.64 240.86 61.85 22 30 17 3482.4 -33.10 171.63
 119.43 4 4 32 2838.17 -29.58 84.97 240.85 61.84 4 51 51 2238.2 -33.09 76.96
 60.57 21 22 15 4082.41 -29.60 179.64 240.86 61.85 22 30 17 3482.4 -33.10 171.63
 119.43 4 4 32 2838.17 -29.58 84.97 240.85 61.84 4 51 51 2238.2 -33.09 76.96
 60.57 21 22 15 4082.41 -29.60 179.64 240.86 61.85 22 30 17 3482.4 -33.10 171.63
 119.43 4 4 32 2838.17 -29.58 84.97 240.85 61.84 4 51 51 2238.2 -33.09 76.96

DIFFERENTIAL CORRECTIONS

TDE 1.0321 TRA .4483 TC3-1.5036 BAU .2978
 ROE .4983 RRA .2518 RC3 -.3779 FAU .19322
 FDE 9.6169 FRA 7.0478 FC-11.6439 BSP 6134
 BOE 1.1461 BRA .5142 BC3 1.5503 FSP -6298

MID-COURSE EXECUTION ACCURACY

SGT 2124.7 SGR 946.6 SG3 1897.5
 RRT .9649 RRF .9803 RTF .9648
 SGB 2326.0 R23 .1462 R13 .9720
 SG1 2314.8 SG2 228.3 TMA 23.50

ORBIT DETERMINATION ACCURACY

ST 1582.9 SR 767.9 SS 3647.9
 CRT .9996 CRS -.9965 CST -.9938
 LSA 4046.5 MSA 168.5 SSA 6.8
 EL1 1759.2 EL2 19.9 ALF 25.87

LAUNCH DATE DEC 14 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 474.019

RL 147.25 LAL .00 LOL 82.07 VL 27.804 GAL 3.76 AZL 86.03 MCA 209.55 SMA 128.91 ECC .15643 INC 3.9693 V1 30.257
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.520 GAP 1.15 AZP 93.45 TAL 158.95 TAP 8.50 RCA 108.74 APO 149.07 V2 34.797
 RC 91.256 GL 30.48 GP -9.04 ZAL 58.13 ZAP 103.73 ETS 359.03 ZAE 156.09 ETE 202.63 ZAC 104.05 ETC 168.75 CLP-103.91

PLANETOCENTRIC CONIC

C3 14.333 VHL 3.786 CLA 39.50 RAL 14.39 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 2.830 DPA -8.06 RAP 12.12 ECC 1.2359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.23 21 28 38 4073.21 -29.31 178.69 241.47 62.24 22 36 31 3473.2 -32.77 170.68
 118.77 4 4 47 2846.35 -29.30 85.48 241.46 62.23 4 52 13 2246.4 -32.76 77.48
 61.23 21 28 38 4073.21 -29.31 178.69 241.47 62.24 22 36 31 3473.2 -32.77 170.68
 118.77 4 4 47 2846.35 -29.30 85.48 241.46 62.23 4 52 13 2246.4 -32.76 77.48
 61.23 21 28 38 4073.21 -29.31 178.69 241.47 62.24 22 36 31 3473.2 -32.77 170.68
 118.77 4 4 47 2846.35 -29.30 85.48 241.46 62.23 4 52 13 2246.4 -32.76 77.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.2233 TRA .6153 TC3-1.7699 BAU .3442 SGT 2584.5 SGR 839.1 SG3 1839.5 ST 1886.8 SR 694.7 SS 3530.8
 RDE .4511 RRA .2185 RC3 -.3081 FAU .18769 RRT .9654 RRF .9699 RTF .9754 CRT .9999 CRS -.9947 CST -.9954
 FDE 9.1443 FRA 6.9927 FC-11.3368 BSP 7410 SGB 2717.3 R23 .0844 R13 .9778 LSA 4059.7 MSA 168.9 SSA 7.4
 BOE 1.3038 BRA .6529 BC3 1.7965 FSP -6153 SG1 2709.3 SG2 208.7 TMA 17.51 EL1 2010.6 EL2 8.6 ALF 20.21

LAUNCH DATE DEC 14 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 480.258

RL 147.25 LAL .00 LOL 82.07 VL 27.801 GAL 3.84 AZL 86.10 MCA 212.72 SMA 128.89 ECC .15716 INC 3.8998 V1 30.257
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.514 GAP 1.53 AZP 93.28 TAL 158.60 TAP 11.32 RCA 108.63 APO 149.14 V2 34.793
 RC 93.644 GL 29.84 GP -8.07 ZAL 57.51 ZAP 108.88 ETS 358.37 ZAE 152.97 ETE 197.13 ZAC 101.90 ETC 168.21 CLP-109.07

PLANETOCENTRIC CONIC

C3 14.373 VHL 3.791 CLA 39.11 RAL 15.24 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 2.891 DPA -8.00 RAP 9.90 ECC 1.2365
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.81 21 34 47 4065.94 -29.03 177.91 242.21 62.55 22 42 33 3465.9 -32.45 169.91
 118.19 4 5 24 2854.84 -29.01 86.02 242.20 62.53 4 52 59 2254.8 -32.44 78.03
 61.81 21 34 47 4065.94 -29.03 177.91 242.21 62.55 22 42 33 3465.9 -32.45 169.91
 118.19 4 5 24 2854.84 -29.01 86.02 242.20 62.53 4 52 59 2254.8 -32.44 78.03
 61.81 21 34 47 4065.94 -29.03 177.91 242.21 62.55 22 42 33 3465.9 -32.45 169.91
 118.19 4 5 24 2854.84 -29.01 86.02 242.20 62.53 4 52 59 2254.8 -32.44 78.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.3994 TRA .7799 TC3-2.0180 BAU .3906 SGT 3020.2 SGR 745.1 SG3 1756.9 ST 2164.0 SR 632.0 SS 3393.6
 RDE .4118 RRA .1877 RC3 -.2439 FAU .17994 RRT .9574 RRF .9549 RTF .9813 CRT .9992 CRS -.9923 CST -.9963
 FDE 8.5896 FRA 6.8389 FC-10.8387 BSP 8747 SGB 3110.8 R23 .0378 R13 .9820 LSA 4070.6 MSA 169.3 SSA 8.0
 BOE 1.4588 BRA .8022 BC3 2.0327 FSP -5945 SG1 3103.8 SG2 209.3 TMA 13.35 EL1 2254.3 EL2 24.1 ALF 16.27

LAUNCH DATE DEC 14 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 486.476

RL 147.25 LAL .00 LOL 82.07 VL 27.796 GAL 3.93 AZL 86.16 MCA 215.88 SMA 128.85 ECC .15810 INC 3.8415 V1 30.257
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.507 GAP 1.91 AZP 93.11 TAL 158.21 TAP 14.09 RCA 108.48 APO 149.22 V2 34.789
 RC 96.038 GL 29.23 GP -7.23 ZAL 56.85 ZAP 113.75 ETS 357.84 ZAE 149.87 ETE 193.18 ZAC 100.06 ETC 167.80 CLP-113.95

PLANETOCENTRIC CONIC

C3 14.477 VHL 3.805 CLA 38.76 RAL 16.12 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.973 DPA -7.95 RAP 7.98 ECC 1.2383
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.34 21 40 51 4060.25 -28.74 177.26 243.06 62.79 22 48 31 3460.2 -32.14 169.28
 117.66 4 6 23 2863.72 -28.73 86.59 243.05 62.77 4 54 7 2263.7 -32.13 78.61
 62.34 21 40 51 4060.25 -28.74 177.26 243.06 62.79 22 48 31 3460.2 -32.14 169.28
 117.66 4 6 23 2863.72 -28.73 86.59 243.05 62.77 4 54 7 2263.7 -32.13 78.61
 62.34 21 40 51 4060.25 -28.74 177.26 243.06 62.79 22 48 31 3460.2 -32.14 169.28
 117.66 4 6 23 2863.72 -28.73 86.59 243.05 62.77 4 54 7 2263.7 -32.13 78.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5598 TRA .9414 TC3-2.2432 BAU .4356 SGT 3425.8 SGR 664.8 SG3 1658.7 ST 2411.9 SR 579.3 SS 3245.9
 RDE .3798 RRA .1596 RC3 -.1852 FAU .17037 RRT .9415 RRF .9340 RTF .9847 CRT .9976 CRS -.9890 CST -.9968
 FDE 7.9956 FRA 6.6206 FC-10.1884 BSP 10067 SGB 3489.7 R23 .0089 R13 .9848 LSA 4081.7 MSA 169.7 SSA 8.5
 BOE 1.6054 BRA .9548 BC3 2.2508 FSP -5672 SG1 3482.8 SG2 220.3 TMA 10.40 EL1 2480.2 EL2 39.0 ALF 13.48

LAUNCH DATE DEC 14 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 492.673

RL 147.25 LAL .00 LOL 82.07 VL 27.790 GAL 4.04 AZL 86.21 MCA 219.04 SMA 128.81 ECC .15925 INC 3.7913 V1 30.257
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.500 GAP 2.29 AZP 92.95 TAL 157.78 TAP 16.82 RCA 108.29 APO 149.32 V2 34.787
 RC 98.436 GL 28.62 GP -6.50 ZAL 56.16 ZAP 118.32 ETS 357.44 ZAE 146.91 ETE 190.27 ZAC 98.53 ETC 167.49 CLP-118.52

PLANETOCENTRIC CONIC

C3 14.641 VHL 3.826 CLA 38.44 RAL 17.05 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 3.072 DPA -7.87 RAP 6.39 ECC 1.2410
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.84 21 46 57 4055.84 -28.44 176.72 244.03 62.97 22 54 33 3455.8 -31.82 168.75
 117.16 4 7 41 2873.14 -28.43 87.20 244.02 62.96 4 55 34 2273.1 -31.81 79.23
 62.84 21 46 57 4055.84 -28.44 176.72 244.03 62.97 22 54 33 3455.8 -31.82 168.75
 117.16 4 7 41 2873.14 -28.43 87.20 244.02 62.96 4 55 34 2273.1 -31.81 79.23
 62.84 21 46 57 4055.84 -28.44 176.72 244.03 62.97 22 54 33 3455.8 -31.82 168.75
 117.16 4 7 41 2873.14 -28.43 87.20 244.02 62.96 4 55 34 2273.1 -31.81 79.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7055 TRA 1.1004 TC3-2.4397 BAU .4782 SGT 3799.1 SGR 598.0 SG3 1552.1 ST 2631.2 SR 536.1 SS 3094.7
 RDE .3543 RRA .1344 RC3 -.1322 FAU .15947 RRT .9173 RRF .9057 RTF .9868 CRT .9951 CRS -.9848 CST -.9971
 FDE 7.3946 FRA 6.3644 FC3-9.4297 BSP 11321 SGB 3845.9 R23 -.0075 R13 .9868 LSA 4093.8 MSA 170.2 SSA 9.0
 BOE 1.7419 BRA 1.1086 BC3 2.4433 FSP -5360 SG1 3838.6 SG2 235.7 TMA 8.25 EL1 2684.7 EL2 52.0 ALF 11.46

LAUNCH DATE DEC 14 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC
 RL 147.25 LAL .00 LOL 82.07 VL 27.782 GAL 4.16 AZL 86.25 MCA 222.20 SMA 128.75 ECC .16059 INC 3.7476 V1 30.257
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.492 GAP 2.67 AZP 92.78 TAL 157.31 TAP 19.51 RCA 108.08 APO 149.43 V2 34.785
 RC 100.837 GL 28.02 GP -5.87 ZAL 55.42 ZAP 122.59 ETS 357.13 ZAE 144.15 ETE 188.09 ZAC 97.32 ETC 167.25 CLP-122.78

PLANETOCENTRIC CONIC
 C3 14.863 VHL 3.855 DLA 38.14 RAL 18.02 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 3.187 DPA -7.75 RAP 5.13 ECC 1.2446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.31 21 53 9 4052.44 -28.13 176.26 245.11 63.12 23 0 42 3452.4 -31.49 168.31
 116.69 4 9 13 2883.26 -28.12 87.86 245.10 63.10 4 57 16 2283.3 -31.48 79.91
 63.31 21 53 9 4052.44 -28.13 176.26 245.11 63.12 23 0 42 3452.4 -31.49 168.31
 116.69 4 9 13 2883.26 -28.12 87.86 245.10 63.10 4 57 16 2283.3 -31.48 79.91
 63.31 21 53 9 4052.44 -28.13 176.26 245.11 63.12 23 0 42 3452.4 -31.49 168.31
 116.69 4 9 13 2883.26 -28.12 87.86 245.10 63.10 4 57 16 2283.3 -31.48 79.91

DIFFERENTIAL CORRECTIONS
 TOE 1.8366 TRA 1.2570 TC3-2.6057 BAU .5181
 ROE .3345 RRA .1120 RC3 -.0854 FAU .14792
 FDE 6.8039 FRA 6.0873 FC3-8.6156 BSP 12494
 BOE 1.8668 BRA 1.2620 BC3 2.6071 FSP -5025

MID-COURSE EXECUTION ACCURACY
 SGT 4138.5 SGR 544.2 SG3 1442.3
 RRT .8842 RRF .8692 RTF .9881
 SGB 4174.2 R23 -.0165 R13 .9880
 SG1 4166.5 SG2 252.5 THA 6.66

ORBIT DETERMINATION ACCURACY
 ST 2821.5 SR 501.1 SS 2942.4
 CRT .9916 CRS -.9796 CST -.9973
 LSA 4103.7 MSA 170.9 SSA 9.5
 EL1 2865.0 EL2 63.7 ALF 9.99

LAUNCH DATE DEC 14 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC
 RL 147.25 LAL .00 LOL 82.07 VL 27.772 GAL 4.29 AZL 86.29 MCA 225.36 SMA 128.69 ECC .16214 INC 3.7089 V1 30.257
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.484 GAP 3.04 AZP 92.61 TAL 156.80 TAP 22.16 RCA 107.82 APO 149.55 V2 34.784
 RC 103.240 GL 27.41 GP -5.32 ZAL 54.64 ZAP 126.55 ETS 356.89 ZAE 141.60 ETE 186.42 ZAC 96.42 ETC 167.09 CLP-126.73

PLANETOCENTRIC CONIC
 C3 15.144 VHL 3.892 DLA 37.84 RAL 19.03 RAD 6567.6 VEL 11.685 PTH 2.06 VHP 3.316 DPA -7.58 RAP 4.17 ECC 1.2492
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.78 21 59 32 4049.88 -27.80 175.87 246.30 63.23 23 7 2 3449.9 -31.15 167.93
 116.22 4 10 57 2894.20 -27.79 88.57 246.29 63.21 4 59 11 2294.2 -31.14 80.64
 63.78 21 59 32 4049.88 -27.80 175.87 246.30 63.23 23 7 2 3449.9 -31.15 167.93
 116.22 4 10 57 2894.20 -27.79 88.57 246.29 63.21 4 59 11 2294.2 -31.14 80.64
 63.78 21 59 32 4049.88 -27.80 175.87 246.30 63.23 23 7 2 3449.9 -31.15 167.93
 116.22 4 10 57 2894.20 -27.79 88.57 246.29 63.21 4 59 11 2294.2 -31.14 80.64

DIFFERENTIAL CORRECTIONS
 TOE 1.9563 TRA 1.4142 TC3-2.7374 BAU .5543
 ROE .3200 RRA .0924 RC3 -.0445 FAU .13585
 FDE 6.2492 FRA 5.8140 FC3-7.7662 BSP 13537
 BOE 1.9823 BRA 1.4173 BC3 2.7378 FSP -4663

MID-COURSE EXECUTION ACCURACY
 SGT 4448.2 SGR 502.9 SG3 1334.8
 RRT .8427 RRF .8253 RTF .9889
 SGB 4476.6 R23 -.0206 R13 .9888
 SG1 4468.5 SG2 269.5 THA 5.46

ORBIT DETERMINATION ACCURACY
 ST 2987.6 SR 474.0 SS 2796.7
 CRT .9872 CRS -.9734 CST -.9974
 LSA 4116.1 MSA 171.8 SSA 10.1
 EL1 3024.0 EL2 74.6 ALF 8.91

LAUNCH DATE DEC 14 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC
 RL 147.25 LAL .00 LOL 82.07 VL 27.762 GAL 4.44 AZL 86.33 MCA 228.52 SMA 128.61 ECC .16390 INC 3.6742 V1 30.257
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.476 GAP 3.42 AZP 92.44 TAL 156.24 TAP 24.77 RCA 107.54 APO 149.69 V2 34.783
 RC 105.643 GL 26.79 GP -4.84 ZAL 53.82 ZAP 130.22 ETS 356.71 ZAE 139.28 ETE 185.13 ZAC 95.82 ETC 166.97 CLP-130.39

PLANETOCENTRIC CONIC
 C3 15.484 VHL 3.935 DLA 37.55 RAL 20.10 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 3.459 DPA -7.35 RAP 3.51 ECC 1.2548
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.24 22 6 6 4048.11 -27.45 175.52 247.60 63.31 23 13 34 3448.1 -30.80 167.62
 115.76 4 12 52 2905.94 -27.44 89.33 247.59 63.29 5 1 18 2305.9 -30.79 81.43
 64.24 22 6 6 4048.11 -27.45 175.52 247.60 63.31 23 13 34 3448.1 -30.80 167.62
 115.76 4 12 52 2905.94 -27.44 89.33 247.59 63.29 5 1 18 2305.9 -30.79 81.43
 64.24 22 6 6 4048.11 -27.45 175.52 247.60 63.31 23 13 34 3448.1 -30.80 167.62
 115.76 4 12 52 2905.94 -27.44 89.33 247.59 63.29 5 1 18 2305.9 -30.79 81.43

DIFFERENTIAL CORRECTIONS
 TOE 2.0623 TRA 1.5691 TC3-2.8428 BAU .5885
 ROE .3099 RRA .0751 RC3 -.0106 FAU .12449
 FDE 5.7216 FRA 5.5346 FC3-6.9608 BSP 14526
 BOE 2.0855 BRA 1.5709 BC3 2.8428 FSP -4327

MID-COURSE EXECUTION ACCURACY
 SGT 4725.2 SGR 471.9 SG3 1230.2
 RRT .7943 RRF .7750 RTF .9894
 SGB 4748.7 R23 -.0228 R13 .9893
 SG1 4740.1 SG2 285.8 THA 4.55

ORBIT DETERMINATION ACCURACY
 ST 3125.6 SR 453.1 SS 2651.8
 CRT .9820 CRS -.9664 CST -.9975
 LSA 4120.3 MSA 172.8 SSA 10.5
 EL1 3157.2 EL2 84.7 ALF 8.11

LAUNCH DATE DEC 14 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 147.25 LAL .00 LOL 82.07 VL 27.750 GAL 4.61 AZL 86.36 MCA 231.69 SMA 128.53 ECC .16586 INC 3.6427 V1 30.257
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.468 GAP 3.80 AZP 92.26 TAL 155.65 TAP 27.34 RCA 107.21 APO 149.85 V2 34.783
 RC 108.045 GL 26.16 GP -4.42 ZAL 52.95 ZAP 133.62 ETS 356.58 ZAE 137.18 ETE 184.11 ZAC 95.50 ETC 166.91 CLP-133.79

PLANETOCENTRIC CONIC
 C3 15.885 VHL 3.986 DLA 37.26 RAL 21.20 RAD 6567.6 VEL 11.716 PTH 2.06 VHP 3.613 DPA -7.06 RAP 3.13 ECC 1.2614
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.70 22 12 53 4046.95 -27.08 175.22 248.99 63.37 23 20 20 3447.0 -30.42 167.34
 115.30 4 14 54 2918.66 -27.07 90.16 248.98 63.35 5 3 33 2318.7 -30.41 82.28
 64.70 22 12 53 4046.95 -27.08 175.22 248.99 63.37 23 20 20 3447.0 -30.42 167.34
 115.30 4 14 54 2918.66 -27.07 90.16 248.98 63.35 5 3 33 2318.7 -30.41 82.28
 64.70 22 12 53 4046.95 -27.08 175.22 248.99 63.37 23 20 20 3447.0 -30.42 167.34
 115.30 4 14 54 2918.66 -27.07 90.16 248.98 63.35 5 3 33 2318.7 -30.41 82.28

DIFFERENTIAL CORRECTIONS
 TOE 2.1579 TRA 1.7249 TC3-2.9188 BAU .6199
 ROE .3038 RRA .0602 RC3 .0172 FAU .11361
 FDE 5.2339 FRA 5.2669 FC3-6.1919 BSP 15425
 BOE 2.1792 BRA 1.7260 BC3 2.9189 FSP -4003

MID-COURSE EXECUTION ACCURACY
 SGT 4974.3 SGR 450.2 SG3 1131.4
 RRT .7419 RRF .7212 RTF .9897
 SGB 4994.7 R23 -.0233 R13 .9896
 SG1 4985.6 SG2 301.2 THA 3.86

ORBIT DETERMINATION ACCURACY
 ST 3240.7 SR 437.9 SS 2512.7
 CRT .9761 CRS -.9586 CST -.9976
 LSA 4120.3 MSA 174.2 SSA 11.0
 EL1 3268.8 EL2 94.4 ALF 7.52

LAUNCH DATE DEC 14 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 523.338

RL 147.25 LAL .00 LOL 82.07 VL 27.737 GAL 4.78 AZL 86.39 MCA 234.85 SMA 128.45 ECC .16805 INC 3.6139 V1 30.257
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.459 GAP 4.18 AZP 92.08 TAL 155.03 TAP 29.87 RCA 106.86 APO 150.03 V2 34.784
 RC 110.446 GL 25.52 GP -4.05 ZAL 52.05 ZAP 136.77 ETS 356.48 ZAE 135.29 ETE 183.29 ZAC 95.43 ETC 166.87 CLP-136.92

PLANETOCENTRIC CONIC

C3 16.350 VHL 4.044 DLA 36.97 RAL 22.35 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 3.778 DPA -6.72 RAP 3.00 ECC 1.2691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.17 22 19 54 4046.38 -26.68 174.95 250.47 63.40 23 27 20 3446.4 -30.02 167.10
 114.83 4 17 3 2932.39 -26.67 91.05 250.47 63.39 5 5 55 2332.4 -30.02 83.20
 65.17 22 19 54 4046.38 -26.68 174.95 250.47 63.40 23 27 20 3446.4 -30.02 167.10
 114.83 4 17 3 2932.39 -26.67 91.05 250.47 63.39 5 5 55 2332.4 -30.02 83.20
 65.17 22 19 54 4046.38 -26.68 174.95 250.47 63.40 23 27 20 3446.4 -30.02 167.10
 114.83 4 17 3 2932.39 -26.67 91.05 250.47 63.39 5 5 55 2332.4 -30.02 83.20

DIFFERENTIAL CORRECTIONS

TDE 2.2443 TRA 1.8830 TC3-2.9673 BAU .6487
 RDE .3011 RRA .0475 RC3 .0396 FAU .10333
 FDE 4.7885 FRA 5.0156 FC3-5.4714 BSP 16246
 BOE 2.2644 BRA 1.8836 BC3 2.9676 FSP -3696

MID-COURSE EXECUTION ACCURACY

SGT 5198.5 SGR 436.1 SG3 1039.5
 RRT .6887 RRF .6676 RTF .9898
 SGB 5216.7 R23 -.0229 R13 .9897
 SG1 5207.2 S62 315.7 TMA 3.32

ORBIT DETERMINATION ACCURACY

ST 3334.9 SR 427.5 SS 2380.6
 CRT .9696 CRS -.9504 CST -.9976
 LSA 4115.9 MSA 175.9 SSA 11.3
 EL1 3360.6 EL2 103.8 ALF 7.09

LAUNCH DATE DEC 14 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 529.404

RL 147.25 LAL .00 LOL 82.07 VL 27.723 GAL 4.98 AZL 86.41 MCA 238.01 SMA 128.35 ECC .17045 INC 3.5872 V1 30.257
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.450 GAP 4.56 AZP 91.90 TAL 154.36 TAP 32.37 RCA 106.47 APO 150.23 V2 34.786
 RC 112.844 GL 24.87 GP -3.73 ZAL 51.11 ZAP 139.69 ETS 356.41 ZAE 133.60 ETE 182.64 ZAC 95.60 ETC 166.87 CLP-139.84

PLANETOCENTRIC CONIC

C3 16.885 VHL 4.109 DLA 36.67 RAL 23.54 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 3.954 DPA -6.32 RAP 3.09 ECC 1.2779
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.65 22 27 11 4046.20 -26.26 174.70 252.05 63.43 23 34 38 3446.2 -29.61 166.89
 114.35 4 19 13 2947.32 -26.25 92.02 252.04 63.42 5 8 20 2347.3 -29.59 84.21
 65.65 22 27 11 4046.20 -26.26 174.70 252.05 63.43 23 34 38 3446.2 -29.61 166.89
 114.35 4 19 13 2947.32 -26.25 92.02 252.04 63.42 5 8 20 2347.3 -29.59 84.21
 65.65 22 27 11 4046.20 -26.26 174.70 252.05 63.43 23 34 38 3446.2 -29.61 166.89
 114.35 4 19 13 2947.32 -26.25 92.02 252.04 63.42 5 8 20 2347.3 -29.59 84.21

DIFFERENTIAL CORRECTIONS

TDE 2.3224 TRA 2.0442 TC3-2.9901 BAU .6751
 RDE .3016 RRA .0368 RC3 .0569 FAU .09375
 FDE 4.3836 FRA 4.7814 FC3-4.8065 BSP 17001
 BOE 2.3419 BRA 2.0445 BC3 2.9906 FSP -3412

MID-COURSE EXECUTION ACCURACY

SGT 5399.4 SGR 427.9 SG3 954.5
 RRT .6380 RRF .6171 RTF .9897
 SGB 5416.3 R23 -.0217 R13 .9897
 SG1 5406.3 S62 329.1 TMA 2.91

ORBIT DETERMINATION ACCURACY

ST 3410.0 SR 420.9 SS 2255.4
 CRT .9628 CRS -.9420 CST -.9976
 LSA 4106.1 MSA 178.0 SSA 11.7
 EL1 3434.0 EL2 112.9 ALF 6.79

LAUNCH DATE DEC 14 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 535.446

RL 147.25 LAL .00 LOL 82.07 VL 27.709 GAL 5.19 AZL 86.44 MCA 241.17 SMA 128.25 ECC .17309 INC 3.5623 V1 30.257
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.442 GAP 4.95 AZP 91.72 TAL 153.67 TAP 34.84 RCA 106.05 APO 150.45 V2 34.789
 RC 115.239 GL 24.20 GP -3.44 ZAL 50.14 ZAP 142.41 ETS 356.36 ZAE 132.08 ETE 182.11 ZAC 95.97 ETC 166.88 CLP-142.54

PLANETOCENTRIC CONIC

C3 17.495 VHL 4.183 DLA 36.37 RAL 24.76 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 4.139 DPA -5.87 RAP 3.39 ECC 1.2879
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.15 22 34 44 4046.45 -25.82 174.47 253.72 63.44 23 42 11 3446.4 -29.16 166.69
 113.85 4 21 24 2963.46 -25.80 93.07 253.71 63.42 5 10 47 2363.5 -29.15 85.29
 66.15 22 34 44 4046.45 -25.82 174.47 253.72 63.44 23 42 11 3446.4 -29.16 166.69
 113.85 4 21 24 2963.46 -25.80 93.07 253.71 63.42 5 10 47 2363.5 -29.15 85.29
 66.15 22 34 44 4046.45 -25.82 174.47 253.72 63.44 23 42 11 3446.4 -29.16 166.69
 113.85 4 21 24 2963.46 -25.80 93.07 253.71 63.42 5 10 47 2363.5 -29.15 85.29

DIFFERENTIAL CORRECTIONS

TDE 2.3963 TRA 2.2127 TC3-2.9832 BAU .6979
 RDE .3048 RRA .0282 RC3 .0702 FAU .08457
 FDE 4.0231 FRA 4.5718 FC3-4.1849 BSP 17619
 BOE 2.4156 BRA 2.2128 BC3 2.9841 FSP -3133

MID-COURSE EXECUTION ACCURACY

SGT 5583.3 SGR 424.4 SG3 877.4
 RRT .5928 RRF .5728 RTF .9895
 SGB 5599.4 R23 -.0199 R13 .9895
 SG1 5589.0 S62 341.4 TMA 2.59

ORBIT DETERMINATION ACCURACY

ST 3472.2 SR 417.8 SS 2140.4
 CRT .9559 CRS -.9335 CST -.9976
 LSA 4096.3 MSA 180.5 SSA 12.1
 EL1 3495.1 EL2 121.9 ALF 6.57

LAUNCH DATE DEC 14 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 541.462

RL 147.25 LAL .00 LOL 82.07 VL 27.693 GAL 5.42 AZL 86.46 MCA 244.33 SMA 128.14 ECC .17598 INC 3.5389 V1 30.257
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.433 GAP 5.34 AZP 91.53 TAL 152.94 TAP 37.28 RCA 105.59 APO 150.69 V2 34.792
 RC 117.630 GL 23.52 GP -3.19 ZAL 49.14 ZAP 144.93 ETS 356.32 ZAE 130.72 ETE 181.68 ZAC 96.53 ETC 166.91 CLP-145.06

PLANETOCENTRIC CONIC

C3 18.185 VHL 4.264 DLA 36.06 RAL 26.00 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.334 DPA -5.38 RAP 3.87 ECC 1.2993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.67 22 42 31 4047.15 -25.34 174.26 255.46 63.43 23 49 58 3447.1 -28.69 166.52
 113.33 4 23 35 2980.78 -25.33 94.20 255.45 63.42 5 13 16 2380.8 -28.68 86.46
 66.67 22 42 31 4047.15 -25.34 174.26 255.46 63.43 23 49 58 3447.1 -28.69 166.52
 113.33 4 23 35 2980.78 -25.33 94.20 255.45 63.42 5 13 16 2380.8 -28.68 86.46
 66.67 22 42 31 4047.15 -25.34 174.26 255.46 63.43 23 49 58 3447.1 -28.69 166.52
 113.33 4 23 35 2980.78 -25.33 94.20 255.45 63.42 5 13 16 2380.8 -28.68 86.46

DIFFERENTIAL CORRECTIONS

TDE 2.4618 TRA 2.3844 TC3-2.9603 BAU .7200
 RDE .3102 RRA .0212 RC3 .0790 FAU .07645
 FDE 3.6927 FRA 4.3749 FC3-3.6395 BSP 18236
 BOE 2.4813 BRA 2.3845 BC3 2.9613 FSP -2890

MID-COURSE EXECUTION ACCURACY

SGT 5746.3 SGR 423.7 SG3 806.5
 RRT .5538 RRF .5349 RTF .9893
 SGB 5761.9 R23 -.0181 R13 .9893
 SG1 5751.1 S62 352.5 TMA 2.35

ORBIT DETERMINATION ACCURACY

ST 3515.6 SR 417.0 SS 2029.5
 CRT .9490 CRS -.9251 CST -.9976
 LSA 4076.6 MSA 183.3 SSA 12.4
 EL1 3537.8 EL2 130.6 ALF 6.43

LAUNCH DATE DEC 14 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 547.452

RL 147.25 LAL .00 LOL 82.07 VL 27.676 GAL 5.67 AZL 86.48 MCA 247.49 SMA 128.03 ECC .17912 INC 3.5167 V1 30.257
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.424 GAP 5.74 AZP 91.35 TAL 152.19 TAP 39.69 RCA 105.10 APO 150.96 V2 34.796
 RC 120.015 GL 22.83 GP -2.97 ZAL 48.11 ZAP 147.29 ETS 356.29 ZAE 129.50 ETE 181.32 ZAC 97.26 ETC 166.95 CLP-147.42

PLANETOCENTRIC CONIC

C3 18.965 VHL 4.355 DLA 35.74 RAL 27.28 RAD 6567.8 VEL 11.847 PTH 2.10 VHP 4.538 DPA -4.84 RAP 4.52 ECC 1.3121
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.22 22 50 35 4048.07 -24.83 174.05 257.28 63.42 23 58 3 3448.1 -28.19 166.35
 112.78 4 25 40 2999.55 -24.82 95.41 257.27 63.41 5 15 40 2399.6 -28.18 87.72
 67.22 22 50 35 4048.07 -24.83 174.05 257.28 63.42 23 58 3 3448.1 -28.19 166.35
 112.78 4 25 40 2999.55 -24.82 95.41 257.27 63.41 5 15 40 2399.6 -28.18 87.72
 67.22 22 50 35 4048.07 -24.83 174.05 257.28 63.42 23 58 3 3448.1 -28.19 166.35
 112.78 4 25 40 2999.55 -24.82 95.41 257.27 63.41 5 15 40 2399.6 -28.18 87.72

DIFFERENTIAL CORRECTIONS

TOE 2.5219 TRA 2.5629 TC3-2.9172 BAU .7399
 RDE .3177 RRA .0160 RC3 .0845 FAU .06898
 FDE 3.3946 FRA 4.1954 FC3-3.1491 BSP 18797
 BOE 2.5419 BRA 2.5630 BC3 2.9184 FSP -2667

MID-COURSE EXECUTION ACCURACY

SGT 5892.8 SGR 425.2 SG3 741.8
 RRT .5218 RRF .5043 RTF .9891
 SGB 5908.1 R23 -.0161 R13 .9890
 SG1 5897.0 SG2 362.5 THA 2.16

ORBIT DETERMINATION ACCURACY

ST 3545.2 SR 418.1 SS 1925.3
 CRT .9422 CRS -.9169 CST -.9976
 LSA 4051.6 MSA 186.5 SSA 12.6
 EL1 3567.1 EL2 139.2 ALF 6.35

LAUNCH DATE DEC 14 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 553.414

RL 147.25 LAL .00 LOL 82.07 VL 27.659 GAL 5.94 AZL 86.50 MCA 250.66 SMA 127.91 ECC .18253 INC 3.4954 V1 30.257
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.416 GAP 6.15 AZP 91.16 TAL 151.41 TAP 42.07 RCA 104.56 APO 151.26 V2 34.800
 RC 122.394 GL 22.12 GP -2.78 ZAL 47.06 ZAP 149.51 ETS 356.26 ZAE 128.40 ETE 181.03 ZAC 98.14 ETC 167.00 CLP-149.62

PLANETOCENTRIC CONIC

C3 19.842 VHL 4.454 DLA 35.41 RAL 28.57 RAD 6567.8 VEL 11.884 PTH 2.11 VHP 4.751 DPA -4.27 RAP 5.31 ECC 1.3265
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.79 22 58 56 4049.23 -24.29 173.85 259.17 63.40 24 6 25 3449.2 -27.66 166.19
 112.21 4 27 39 3019.79 -24.28 96.73 259.17 63.39 5 17 58 2419.8 -27.65 89.07
 67.79 22 58 56 4049.23 -24.29 173.85 259.17 63.40 24 6 25 3449.2 -27.66 166.19
 112.21 4 27 39 3019.79 -24.28 96.73 259.17 63.39 5 17 58 2419.8 -27.65 89.07
 67.79 22 58 56 4049.23 -24.29 173.85 259.17 63.40 24 6 25 3449.2 -27.66 166.19
 112.21 4 27 39 3019.79 -24.28 96.73 259.17 63.39 5 17 58 2419.8 -27.65 89.07

DIFFERENTIAL CORRECTIONS

TOE 2.5782 TRA 2.7492 TC3-2.8560 BAU .7579
 RDE .3269 RRA .0124 RC3 .0872 FAU .06214
 FDE 3.1270 FRA 4.0324 FC3-2.7114 BSP 19309
 BOE 2.5988 BRA 2.7492 BC3 2.8573 FSP -2463

MID-COURSE EXECUTION ACCURACY

SGT 6024.7 SGR 428.1 SG3 683.1
 RRT .4970 RRF .4811 RTF .9887
 SGB 6039.9 R23 -.0141 R13 .9887
 SG1 6028.4 SG2 371.2 THA 2.03

ORBIT DETERMINATION ACCURACY

ST 3563.3 SR 420.6 SS 1828.0
 CRT .9355 CRS -.9091 CST -.9976
 LSA 4022.4 MSA 190.0 SSA 12.8
 EL1 3585.0 EL2 147.7 ALF 6.31

LAUNCH DATE DEC 14 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 559.346

RL 147.25 LAL .00 LOL 82.07 VL 27.641 GAL 6.23 AZL 86.52 MCA 253.82 SMA 127.79 ECC .18623 INC 3.4750 V1 30.257
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.408 GAP 6.56 AZP 90.97 TAL 150.61 TAP 44.43 RCA 103.99 APO 151.59 V2 34.805
 RC 124.766 GL 21.40 GP -2.60 ZAL 45.99 ZAP 151.59 ETS 356.22 ZAE 127.42 ETE 180.80 ZAC 99.16 ETC 167.05 CLP-151.70

PLANETOCENTRIC CONIC

C3 20.828 VHL 4.564 DLA 35.07 RAL 29.88 RAD 6567.8 VEL 11.925 PTH 2.12 VHP 4.975 DPA -3.66 RAP 6.23 ECC 1.3428
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.39 23 7 34 4050.54 -23.73 173.64 261.14 63.38 24 15 5 3450.5 -27.10 166.03
 111.61 4 29 27 3041.64 -23.71 98.15 261.13 63.37 5 20 8 2441.6 -27.09 90.53
 68.39 23 7 34 4050.54 -23.73 173.64 261.14 63.38 24 15 5 3450.5 -27.10 166.03
 111.61 4 29 27 3041.64 -23.71 98.15 261.13 63.37 5 20 8 2441.6 -27.09 90.53
 68.39 23 7 34 4050.54 -23.73 173.64 261.14 63.38 24 15 5 3450.5 -27.10 166.03
 111.61 4 29 27 3041.64 -23.71 98.15 261.13 63.37 5 20 8 2441.6 -27.09 90.53

DIFFERENTIAL CORRECTIONS

TOE 2.6337 TRA 2.9478 TC3-2.7723 BAU .7723
 RDE .3379 RRA .0105 RC3 .0877 FAU .05561
 FDE 2.8909 FRA 3.8903 FC3-2.3114 BSP 19702
 BOE 2.6553 BRA 2.9478 BC3 2.7737 FSP -2266

MID-COURSE EXECUTION ACCURACY

SGT 6146.8 SGR 432.0 SG3 630.4
 RRT .4794 RRF .4654 RTF .9883
 SGB 6162.0 R23 -.0116 R13 .9883
 SG1 6150.3 SG2 378.9 THA 1.94

ORBIT DETERMINATION ACCURACY

ST 3574.8 SR 424.2 SS 1739.7
 CRT .9291 CRS -.9016 CST -.9976
 LSA 3993.5 MSA 193.7 SSA 13.0
 EL1 3596.5 EL2 155.9 ALF 6.30

LAUNCH DATE DEC 14 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 565.247

RL 147.25 LAL .00 LOL 82.07 VL 27.623 GAL 6.54 AZL 86.54 MCA 256.99 SMA 127.66 ECC .19023 INC 3.4552 V1 30.257
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.399 GAP 6.99 AZP 90.78 TAL 149.79 TAP 46.77 RCA 103.38 APO 151.95 V2 34.811
 RC 127.128 GL 20.68 GP -2.45 ZAL 44.90 ZAP 153.55 ETS 356.18 ZAE 126.54 ETE 180.60 ZAC 100.29 ETC 167.09 CLP-153.66

PLANETOCENTRIC CONIC

C3 21.934 VHL 4.683 DLA 34.72 RAL 31.20 RAD 6567.9 VEL 11.971 PTH 2.13 VHP 5.209 DPA -3.02 RAP 7.27 ECC 1.3610
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.02 23 16 28 4052.00 -23.13 173.43 263.16 63.35 24 24 0 3452.0 -26.51 165.86
 110.98 4 31 4 3065.11 -23.11 99.67 263.15 63.34 5 22 9 2465.1 -26.50 92.10
 69.02 23 16 28 4052.00 -23.13 173.43 263.16 63.35 24 24 0 3452.0 -26.51 165.86
 110.98 4 31 4 3065.11 -23.11 99.67 263.15 63.34 5 22 9 2465.1 -26.50 92.10
 69.02 23 16 28 4052.00 -23.13 173.43 263.16 63.35 24 24 0 3452.0 -26.51 165.86
 110.98 4 31 4 3065.11 -23.11 99.67 263.15 63.34 5 22 9 2465.1 -26.50 92.10

DIFFERENTIAL CORRECTIONS

TOE 2.6825 TRA 3.1527 TC3-2.6819 BAU .7868
 RDE .3500 RRA .0101 RC3 .0858 FAU .04994
 FDE 2.6728 FRA 3.7565 FC3-1.9713 BSP 20143
 BOE 2.7053 BRA 3.1527 BC3 2.6833 FSP -2099

MID-COURSE EXECUTION ACCURACY

SGT 6252.9 SGR 435.9 SG3 581.9
 RRT .4672 RRF .4548 RTF .9879
 SGB 6268.0 R23 -.0096 R13 .9879
 SG1 6256.2 SG2 385.2 THA 1.87

ORBIT DETERMINATION ACCURACY

ST 3571.7 SR 428.2 SS 1654.1
 CRT .9228 CRS -.8943 CST -.9976
 LSA 3954.4 MSA 197.7 SSA 13.0
 EL1 3593.6 EL2 164.0 ALF 6.33

LAUNCH DATE DEC 14 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 571.112

RL 147.25 LAL .00 LOL 82.07 VL 27.604 GAL 6.87 AZL 86.56 MCA 260.15 SMA 127.53 ECC .19457 INC 3.4359 V1 30.257
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.391 GAP 7.43 AZP 90.59 TAL 148.94 TAP 49.10 RCA 102.72 APO 152.35 V2 34.818
 RC 129.481 GL 19.95 GP -2.31 ZAL 43.81 ZAP 155.41 ETS 356.13 ZAE 125.74 ETE 180.44 ZAC 101.53 ETC 167.13 CLP-155.51

PLANETOCENTRIC CONIC

C3 23.177 VML 4.814 DLA 34.36 RAL 32.52 RAD 6567.9 VEL 12.023 PTH 2.15 VMP 5.454 DPA -2.35 RAP 8.40 ECC 1.3814
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.68 23 25 39 4053.52 -22.50 173.21 265.25 63.32 24 33 13 3453.5 -25.89 165.68
 110.32 4 32 26 3090.34 -22.48 101.31 265.24 63.31 5 23 56 2490.3 -25.88 93.78
 69.68 23 25 39 4053.52 -22.50 173.21 265.25 63.32 24 33 13 3453.5 -25.89 165.68
 110.32 4 32 26 3090.34 -22.48 101.31 265.24 63.31 5 23 56 2490.3 -25.88 93.78
 69.68 23 25 39 4053.52 -22.50 173.21 265.25 63.32 24 33 13 3453.5 -25.89 165.68
 110.32 4 32 26 3090.34 -22.48 101.31 265.24 63.31 5 23 56 2490.3 -25.88 93.78

DIFFERENTIAL CORRECTIONS

TDE 2.7291 TRA 3.3685 TC3-2.5785 BAU .7994
 RDE .3634 RRA .0112 RC3 .0825 FAU .04473
 FDE 2.4768 FRA 3.6360 FC3-1.6707 BSP 20535
 BDE 2.7532 BRA 3.3685 BC3 2.5798 FSP -1944

MID-COURSE EXECUTION ACCURACY

SGT 6347.9 SGR 440.0 SG3 537.9
 RRT .4603 RRF .4496 RTF .9875
 SGB 6363.1 R23 -.0075 R13 .9875
 SGI 6351.1 SG2 390.4 THA 1.83

ORBIT DETERMINATION ACCURACY

ST 3560.5 SR 432.5 SS 1574.5
 CRT .9166 CRS -.8873 CST -.9976
 LSA 3911.9 MSA 201.8 SSA 13.1
 EL1 3582.6 EL2 171.8 ALF 6.37

LAUNCH DATE DEC 14 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 576.940

RL 147.25 LAL .00 LOL 82.07 VL 27.584 GAL 7.23 AZL 86.58 MCA 263.32 SMA 127.40 ECC .19927 INC 3.4170 V1 30.257
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.384 GAP 7.89 AZP 90.40 TAL 148.08 TAP 51.41 RCA 102.01 APO 152.79 V2 34.825
 RC 131.823 GL 19.21 GP -2.18 ZAL 42.70 ZAP 157.17 ETS 356.06 ZAE 125.02 ETE 180.32 ZAC 102.86 ETC 167.17 CLP-157.27

PLANETOCENTRIC CONIC

C3 24.571 VML 4.957 DLA 35.98 RAL 33.84 RAD 6568.0 VEL 12.081 PTH 2.16 VMP 5.711 DPA -1.66 RAP 9.63 ECC 1.4044
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.38 23 35 8 4055.01 -21.83 172.96 267.39 63.29 24 42 43 3455.0 -25.24 165.48
 109.62 4 33 30 3117.47 -21.82 103.06 267.38 63.28 5 25 28 2517.5 -25.23 95.58
 70.38 23 35 8 4055.01 -21.83 172.96 267.39 63.29 24 42 43 3455.0 -25.24 165.48
 109.62 4 33 30 3117.47 -21.82 103.06 267.38 63.28 5 25 28 2517.5 -25.23 95.58
 110.00 5 4 5 3024.19 -24.50 97.19 268.78 63.38 5 54 29 2424.2 -27.60 89.40
 110.00 4 7 40 3196.28 -19.21 107.74 265.91 61.17 5 0 57 2596.3 -22.90 100.55

DIFFERENTIAL CORRECTIONS

TDE 2.7739 TRA 3.5969 TC3-2.4637 BAU .8097
 RDE .3778 RRA .0139 RC3 .0780 FAU .03992
 FDE 2.3003 FRA 3.5284 FC3-1.4065 BSP 20894
 BDE 2.7995 BRA 3.5969 BC3 2.4649 FSP -1803

MID-COURSE EXECUTION ACCURACY

SGT 6433.0 SGR 443.9 SG3 497.9
 RRT .4581 RRF .4489 RTF .9871
 SGB 6448.3 R23 -.0058 R13 .9871
 SGI 6436.2 SG2 394.3 THA 1.82

ORBIT DETERMINATION ACCURACY

ST 3542.3 SR 436.7 SS 1500.4
 CRT .9106 CRS -.8806 CST -.9977
 LSA 3866.2 MSA 206.0 SSA 13.1
 EL1 3564.6 EL2 179.4 ALF 6.42

LAUNCH DATE DEC 14 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 582.727

RL 147.25 LAL .00 LOL 82.07 VL 27.564 GAL 7.61 AZL 86.60 MCA 266.49 SMA 127.27 ECC .20435 INC 3.3982 V1 30.257
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.376 GAP 8.36 AZP 90.21 TAL 147.21 TAP 53.71 RCA 101.26 APO 153.27 V2 34.833
 RC 134.153 GL 18.47 GP -2.07 ZAL 41.59 ZAP 158.86 ETS 355.97 ZAE 124.37 ETE 180.22 ZAC 104.27 ETC 167.19 CLP-158.96

PLANETOCENTRIC CONIC

C3 26.138 VML 5.113 DLA 35.59 RAL 35.16 RAD 6568.1 VEL 12.146 PTH 2.18 VMP 5.980 DPA -.94 RAP 10.93 ECC 1.4302
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.12 23 44 57 4056.34 -21.14 172.69 269.58 63.27 24 52 33 3456.3 -24.55 165.26
 108.88 4 34 13 3146.64 -21.13 104.95 269.57 63.25 5 26 40 2546.6 -24.54 97.52
 71.12 23 44 57 4056.34 -21.14 172.69 269.58 63.27 24 52 33 3456.3 -24.55 165.26
 108.88 4 34 13 3146.64 -21.13 104.95 269.57 63.25 5 26 40 2546.6 -24.54 97.52
 110.00 5 29 10 2978.50 -25.76 94.24 271.93 66.71 6 18 48 2378.5 -28.68 86.28
 110.00 3 53 6 3272.47 -16.65 112.16 267.00 59.70 4 47 39 2672.5 -20.55 105.21

DIFFERENTIAL CORRECTIONS

TDE 2.8175 TRA 3.8384 TC3-2.3399 BAU .8181
 RDE .3931 RRA .0181 RC3 .0726 FAU .03549
 FDE 2.1414 FRA 3.4320 FC3-1.1756 BSP 21221
 BDE 2.8448 BRA 3.8385 BC3 2.3410 FSP -1674

MID-COURSE EXECUTION ACCURACY

SGT 6508.7 SGR 447.4 SG3 461.4
 RRT .4599 RRF .4522 RTF .9867
 SGB 6524.0 R23 -.0037 R13 .9867
 SGI 6511.9 SG2 397.1 THA 1.82

ORBIT DETERMINATION ACCURACY

ST 3517.8 SR 440.6 SS 1431.8
 CRT .9046 CRS -.8741 CST -.9977
 LSA 3817.7 MSA 210.2 SSA 13.0
 EL1 3540.4 EL2 186.6 ALF 6.48

LAUNCH DATE DEC 14 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 588.468

RL 147.25 LAL .00 LOL 82.07 VL 27.544 GAL 8.02 AZL 86.62 MCA 269.66 SMA 127.13 ECC .20985 INC 3.3797 V1 30.257
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.369 GAP 8.85 AZP 90.02 TAL 146.33 TAP 56.00 RCA 100.45 APO 153.81 V2 34.841
 RC 136.471 GL 17.72 GP -1.97 ZAL 40.49 ZAP 160.47 ETS 355.85 ZAE 123.77 ETE 180.14 ZAC 105.76 ETC 167.20 CLP-160.57

PLANETOCENTRIC CONIC

C3 27.901 VML 5.282 DLA 35.19 RAL 36.47 RAD 6568.1 VEL 12.218 PTH 2.20 VMP 6.264 DPA -.20 RAP 12.31 ECC 1.4592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.91 23 55 4 4057.50 -20.41 172.39 271.82 63.24 25 2 42 3457.5 -23.84 165.00
 108.09 4 34 33 3177.91 -20.40 106.98 271.81 63.23 5 27 30 2577.9 -23.82 99.59
 71.91 23 55 4 4057.50 -20.41 172.39 271.82 63.24 25 2 42 3457.5 -23.84 165.00
 108.09 4 34 33 3177.91 -20.40 106.98 271.81 63.23 5 27 30 2577.9 -23.82 99.59
 110.00 5 48 27 2951.07 -26.49 92.44 274.85 67.55 6 37 38 2351.1 -29.29 84.37
 110.00 3 44 16 3332.33 -14.56 115.55 268.42 58.73 4 39 48 2732.3 -18.60 108.76

DIFFERENTIAL CORRECTIONS

TDE 2.8634 TRA 4.0980 TC3-2.2037 BAU .8224
 RDE .4094 RRA .0241 RC3 .0668 FAU .03126
 FDE 2.0009 FRA 3.3490 FC3 -.9699 BSP 21434
 BDE 2.8925 BRA 4.0981 BC3 2.2048 FSP -1548

MID-COURSE EXECUTION ACCURACY

SGT 6579.1 SGR 450.7 SG3 428.6
 RRT .4657 RRF .4595 RTF .9863
 SGB 6594.5 R23 -.0017 R13 .9863
 SGI 6582.4 SG2 398.6 THA 1.83

ORBIT DETERMINATION ACCURACY

ST 3491.6 SR 444.1 SS 1369.9
 CRT .8989 CRS -.8680 CST -.9978
 LSA 3770.8 MSA 214.2 SSA 13.0
 EL1 3514.4 EL2 193.3 ALF 6.54

LAUNCH DATE DEC 14 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 594.157

RL 147.25 LAL .00 LOL 82.07 VL 27.523 GAL 8.47 AZL 86.64 MCA 272.83 SMA 126.99 ECC .21581 INC 3.3611 VI 30.257
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.362 GAP 9.36 AZP 89.83 TAL 145.45 TAP 58.28 RCA 99.58 APO 154.40 V2 34.850
 RC 158.775 GL 16.97 GP -1.88 ZAL 39.38 ZAP 162.02 ETS 355.70 ZAE 123.23 ETE 180.08 ZAC 107.31 ETC 167.20 CLP-162.12

PLANETOCENTRIC CONIC

C3 29.887 VHL 5.467 DLA 32.79 RAL 37.77 RAD 6568.2 VEL 12.299 PTH 2.22 VHP 6.563 DPA .55 RAP 13.75 ECC 1.4919
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.74 0 9 29 4058.28 -19.66 172.04 274.10 63.22 1 17 7 3458.3 -23.09 164.70
 107.26 4 34 24 3211.50 -19.64 109.16 274.10 63.21 5 27 55 2611.5 -23.08 101.82
 72.74 0 9 29 4058.28 -19.66 172.04 274.10 63.22 1 17 7 3458.3 -23.09 164.70
 107.26 4 34 24 3211.50 -19.64 109.16 274.10 63.21 5 27 55 2611.5 -23.08 101.82
 110.00 6 5 18 2931.70 -26.98 91.15 277.70 68.17 6 54 10 2331.7 -29.70 83.01
 110.00 3 37 45 3386.07 -12.64 118.53 269.99 57.97 4 34 11 2786.1 -16.78 111.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.9054 TRA 4.3697 TC3-2.0671 BAU .8263 SGT 6637.3 SGR 453.3 SCS 398.2 ST 3456.5 SR 446.8 SS 1310.6
 ROE .4262 RRA .0317 RC3 .0606 FAU .02752 RRT .4738 RRF .4687 RTF .9859 CRT .8931 CRS -.8620 CST -.9978
 FDE 1.8709 FRA 3.2720 FC3 -.7973 BSP 21713 SGB 6652.8 R23 -.0002 R13 .9859 LSA 3717.1 MSA 218.2 SSA 12.9
 BOE 2.9365 BRA 4.3698 BC3 2.0680 FSP -1441 SGI 6640.8 SGT 399.0 TMA 1.86 EL1 3479.5 EL2 199.7 ALF 6.61

LAUNCH DATE DEC 14 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 599.789

RL 147.25 LAL .00 LOL 82.07 VL 27.502 GAL 8.94 AZL 86.66 MCA 276.01 SMA 126.85 ECC .22228 INC 3.3424 VI 30.257
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.355 GAP 9.90 AZP 89.65 TAL 144.56 TAP 60.57 RCA 98.65 APO 155.05 V2 34.860
 RC 141.067 GL 16.23 GP -1.80 ZAL 38.29 ZAP 163.52 ETS 355.50 ZAE 122.72 ETE 180.03 ZAC 108.91 ETC 167.18 CLP-163.62

PLANETOCENTRIC CONIC

C3 32.129 VHL 5.668 DLA 32.37 RAL 39.04 RAD 6568.3 VEL 12.390 PTH 2.24 VHP 6.879 DPA 1.31 RAP 15.24 ECC 1.5288
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.63 0 20 23 4058.44 -18.87 171.63 276.43 63.20 1 28 1 3458.4 -22.31 164.33
 106.37 4 33 41 3247.68 -18.86 111.51 276.42 63.20 5 27 49 2647.7 -22.30 104.21
 73.63 0 20 23 4058.44 -18.87 171.63 276.43 63.20 1 28 1 3458.4 -22.31 164.33
 106.37 4 33 41 3247.68 -18.86 111.51 276.42 63.20 5 27 49 2647.7 -22.30 104.21
 110.00 6 20 40 2917.39 -27.34 90.19 280.54 68.63 7 9 18 2317.4 -29.99 82.00
 110.00 3 32 34 3436.72 -10.80 121.29 271.67 57.37 4 29 51 2836.7 -15.02 114.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.9476 TRA 4.6585 TC3-1.9263 BAU .8277 SGT 6687.8 SGR 455.3 SCS 370.5 ST 3417.4 SR 448.7 SS 1255.9
 ROE .4436 RRA .0409 RC3 .0542 FAU .02407 RRT .4844 RRF .4803 RTF .9856 CRT .8873 CRS -.8561 CST -.9979
 FDE 1.7536 FRA 3.2041 FC3 -.6485 BSP 21961 SGB 6703.2 R23 .0013 R13 .9856 LSA 3661.7 MSA 221.8 SSA 12.7
 BOE 2.9808 BRA 4.6587 BC3 1.9271 FSP -1342 SGI 6691.4 SGT 398.1 TMA 1.90 EL1 3440.6 EL2 205.5 ALF 6.67

LAUNCH DATE DEC 14 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 605.355

RL 147.25 LAL .00 LOL 82.07 VL 27.481 GAL 9.46 AZL 86.68 MCA 279.18 SMA 126.71 ECC .22930 INC 3.3234 VI 30.257
 RP 108.68 LAP -3.28 LOP 357.49 VP 37.349 GAP 10.47 AZP 89.47 TAL 143.67 TAP 62.86 RCA 97.65 APO 155.76 V2 34.870
 RC 143.344 GL 15.48 GP -1.73 ZAL 37.21 ZAP 164.97 ETS 355.25 ZAE 122.25 ETE 180.00 ZAC 110.56 ETC 167.14 CLP-165.07

PLANETOCENTRIC CONIC

C3 34.665 VHL 5.888 DLA 31.93 RAL 40.30 RAD 6568.4 VEL 12.491 PTH 2.26 VHP 7.214 DPA 2.09 RAP 16.79 ECC 1.5705
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.58 0 31 45 4057.73 -18.05 171.15 278.79 63.20 1 39 23 3457.7 -21.50 163.89
 105.42 4 32 19 3286.71 -18.04 114.05 278.78 63.19 5 27 6 2686.7 -21.49 106.80
 74.58 0 31 45 4057.73 -18.05 171.15 278.79 63.20 1 39 23 3457.7 -21.50 163.89
 105.42 4 32 19 3286.71 -18.04 114.05 278.78 63.19 5 27 6 2686.7 -21.49 106.80
 110.00 6 35 0 2906.78 -27.60 89.48 283.37 68.98 7 23 27 2306.8 -30.20 81.25
 110.00 3 28 15 3485.65 -8.99 123.93 273.42 56.88 4 26 20 2885.6 -13.29 117.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.9908 TRA 4.9667 TC3-1.7818 BAU .8261 SGT 6731.3 SGR 456.7 SCS 345.1 ST 3375.6 SR 449.6 SS 1205.8
 ROE .4616 RRA .0520 RC3 .0480 FAU .02084 RRT .4972 RRF .4938 RTF .9854 CRT .8816 CRS -.8505 CST -.9980
 FDE 1.6480 FRA 3.1452 FC3 -.5205 BSP 22180 SGB 6746.7 R23 .0025 R13 .9854 LSA 3605.5 MSA 225.1 SSA 12.5
 BOE 3.0263 BRA 4.9670 BC3 1.7825 FSP -1250 SGI 6735.1 SGT 396.0 TMA 1.94 EL1 3398.8 EL2 210.7 ALF 6.72

LAUNCH DATE DEC 14 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 610.847

RL 147.25 LAL .00 LOL 82.07 VL 27.459 GAL 10.01 AZL 86.70 MCA 282.36 SMA 126.57 ECC .23693 INC 3.3042 VI 30.257
 RP 108.65 LAP -3.23 LOP 361.45 VP 37.343 GAP 11.06 AZP 89.29 TAL 142.80 TAP 65.16 RCA 96.58 APO 156.55 V2 34.880
 RC 145.608 GL 14.74 GP -1.66 ZAL 36.14 ZAP 166.36 ETS 354.92 ZAE 121.81 ETE 179.99 ZAC 112.25 ETC 167.08 CLP-166.48

PLANETOCENTRIC CONIC

C3 37.543 VHL 6.127 DLA 31.49 RAL 41.53 RAD 6568.5 VEL 12.606 PTH 2.29 VHP 7.570 DPA 2.87 RAP 18.37 ECC 1.6179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.61 0 43 40 4055.90 -17.21 170.56 281.18 63.21 1 51 16 3455.9 -20.66 163.35
 104.39 4 30 12 3328.82 -17.19 116.80 281.17 63.20 5 25 41 2728.8 -20.65 109.59
 75.61 0 43 40 4055.90 -17.21 170.56 281.18 63.21 1 51 16 3455.9 -20.66 163.35
 104.39 4 30 12 3328.82 -17.19 116.80 281.17 63.20 5 25 41 2728.8 -20.65 109.59
 110.00 6 48 32 2899.11 -27.79 88.96 286.21 69.24 7 36 51 2299.1 -30.35 80.70
 110.00 3 24 30 3533.61 -7.19 126.48 275.24 56.49 4 23 24 2933.6 -11.55 120.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 3.0398 TRA 5.2999 TC3-1.6313 BAU .8190 SGT 6771.7 SGR 457.6 SCS 322.1 ST 3335.2 SR 449.5 SS 1161.5
 ROE .4802 RRA .0650 RC3 .0422 FAU .01770 RRT .5122 RRF .5096 RTF .9852 CRT .8761 CRS -.8454 CST -.9981
 FDE 1.5555 FRA 3.0970 FC3 -.4081 BSP 22278 SGB 6787.1 R23 .0037 R13 .9852 LSA 3552.8 MSA 227.8 SSA 12.4
 BOE 3.0774 BRA 5.3003 BC3 1.6319 FSP -1159 SGI 6775.8 SGT 392.8 TMA 1.99 EL1 3358.5 EL2 215.2 ALF 6.76

LAUNCH DATE DEC 15 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 23 1969

HELIOCENTRIC CONIC

DISTANCE 135.861

RL 147.23 LAL .00 LOL 83.09 VL 17.604 GAL 21.49 AZL 86.21 MCA 43.20 SMA 88.90 ECC .71203 INC 3.7919 V1 30.259
 RP 107.48 LAP 2.59 LOP 126.22 VP 31.253 GAP -44.11 AZP 87.23 TAL 170.53 TAP 213.72 RCA 25.60 APO 152.20 V2 35.258
 RC 73.439 GL 4.02 GP .51 ZAL 64.65 ZAP 30.54 ETS 180.30 ZAE 138.65 ETE 189.01 ZAC 71.87 ETC 164.62 CLP 30.54

PLANETOCENTRIC CONIC

C3 238.507 VHL 15.444 DLA 10.97 RAL 15.52 RAD 6571.4 VEL 18.969 PTH 3.08 VHP 25.233 DPA -11.65 RAP 339.60 ECC 4.9252
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 8 3106.57 -27.18 104.12 282.07 81.73 6 15 55 2506.6 -28.04 95.56
 90.00 20 10 25 5055.59 23.81 223.31 271.58 74.20 21 34 41 4455.6 21.41 215.46
 100.00 6 50 59 2826.49 -28.86 83.80 282.35 81.84 7 38 5 2226.5 -29.68 75.09
 100.00 21 26 16 4810.90 25.44 204.81 271.07 73.75 22 46 27 4210.9 22.97 196.88
 110.00 8 11 41 2573.94 -33.37 65.36 283.09 82.10 8 54 35 1973.9 -34.10 56.20
 110.00 22 22 3 4636.21 29.80 190.06 269.57 72.41 23 39 19 4036.2 27.10 181.90

DIFFERENTIAL CORRECTIONS

TDE -.7578 TRA-1.8560 TC3 -.1132 BAU .3643
 RDE-1.0931 RRA .4976 RC3 -.0154 FAU .01242
 FDE .3405 FRA .6867 FC3 -.0451 BSP 2230
 BOE 1.3188 BRA 1.9215 BC3 .1142 FSP -59

MID-COURSE EXECUTION ACCURACY

SGT 830.1 SGR 449.5 SG3 27.9
 RRT -.0115 RRF .0080 RTF -.6328
 SGB 944.0 R23 .0028 R13 .6328
 SG1 830.2 SG2 449.5 THA 179.50

ORBIT DETERMINATION ACCURACY

ST 345.4 SR 409.4 SS 337.5
 CRT .7011 CRS .7863 CST .9901
 LSA 591.9 MSA 224.5 SSA 13.8
 EL1 495.5 EL2 203.5 ALF 51.85

LAUNCH DATE DEC 15 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 141.676

RL 147.23 LAL .00 LOL 83.09 VL 18.319 GAL 20.54 AZL 86.25 MCA 46.44 SMA 90.46 ECC .68456 INC 3.7468 V1 30.259
 RP 107.48 LAP 2.71 LOP 129.47 VP 31.662 GAP -42.08 AZP 87.42 TAL 169.71 TAP 216.15 RCA 28.53 APO 152.38 V2 35.259
 RC 71.328 GL 4.36 GP .53 ZAL 63.44 ZAP 29.01 ETS 180.49 ZAE 138.96 ETE 189.54 ZAC 73.52 ETC 164.85 CLP 29.00

PLANETOCENTRIC CONIC

C3 217.425 VHL 14.745 DLA 11.75 RAL 16.53 RAD 6571.2 VEL 18.405 PTH 3.04 VHP 24.255 DPA -11.01 RAP 341.22 ECC 4.5783
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 43 3119.36 -27.05 105.04 282.43 81.29 6 13 43 2519.4 -27.98 96.49
 90.00 20 20 58 5016.31 23.06 220.68 271.43 73.09 21 44 34 4416.3 20.52 212.92
 100.00 6 49 2 2837.78 -28.75 84.62 282.72 81.43 7 36 19 2237.8 -29.63 75.93
 100.00 21 36 20 4773.11 24.69 202.25 270.88 72.60 22 55 54 4173.1 22.08 194.42
 110.00 8 10 45 2582.05 -33.29 65.98 283.51 81.74 8 53 47 1982.0 -34.07 56.83
 110.00 22 31 6 4601.61 29.06 187.63 269.27 71.15 23 47 48 4001.6 26.21 179.61

DIFFERENTIAL CORRECTIONS

TDE -.7386 TRA-1.8653 TC3 -.1202 BAU .3529
 RDE-1.0581 RRA .4748 RC3 -.0172 FAU .01256
 FDE .3747 FRA .7117 FC3 -.0500 BSP 2365
 BOE 1.2888 BRA 1.9248 BC3 .1214 FSP -65

MID-COURSE EXECUTION ACCURACY

SGT 869.5 SGR 454.4 SG3 30.3
 RRT -.0094 RRF .0060 RTF -.6521
 SGB 981.1 R23 .0024 R13 .6521
 SG1 869.5 SG2 454.4 THA 179.61

ORBIT DETERMINATION ACCURACY

ST 363.0 SR 414.3 SS 353.2
 CRT .6997 CRS .7872 CST .9898
 LSA 612.2 MSA 230.6 SSA 14.0
 EL1 508.7 EL2 211.2 ALF 30.36

LAUNCH DATE DEC 15 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 147.592

RL 147.23 LAL .00 LOL 83.09 VL 18.988 GAL 19.65 AZL 86.29 MCA 49.69 SMA 92.02 ECC .65753 INC 3.7063 V1 30.259
 RP 107.48 LAP 2.83 LOP 132.72 VP 32.054 GAP -40.16 AZP 87.60 TAL 168.89 TAP 218.59 RCA 31.51 APO 152.53 V2 35.259
 RC 69.241 GL 4.71 GP .54 ZAL 62.29 ZAP 27.50 ETS 180.68 ZAE 139.38 ETE 190.10 ZAC 75.20 ETC 165.06 CLP 27.49

PLANETOCENTRIC CONIC

C3 198.313 VHL 14.082 DLA 12.52 RAL 17.50 RAD 6571.1 VEL 17.878 PTH 3.00 VHP 23.311 DPA -10.34 RAP 342.86 ECC 4.2637
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 19 6 3131.34 -26.92 105.89 282.68 80.88 6 11 17 2531.3 -27.91 97.36
 90.00 20 31 18 4976.48 22.24 218.04 271.22 72.01 21 54 14 4376.5 19.58 210.38
 100.00 6 46 53 2848.24 -28.64 85.38 282.99 81.04 7 34 21 2248.2 -29.58 76.70
 100.00 21 46 12 4734.81 23.89 199.68 270.63 71.48 23 5 7 4134.8 21.14 191.97
 110.00 8 9 38 2589.27 -33.22 66.53 283.81 81.42 8 52 48 1989.3 -34.05 57.39
 110.00 22 39 56 4566.55 28.26 185.21 268.92 69.92 23 56 2 3966.5 25.27 177.32

DIFFERENTIAL CORRECTIONS

TDE -.7404 TRA-1.8751 TC3 -.1273 BAU .3413
 RDE-1.0192 RRA .4519 RC3 -.0193 FAU .01271
 FDE .3894 FRA .7372 FC3 -.0555 BSP 2487
 BOE 1.2598 BRA 1.9288 BC3 .1287 FSP -72

MID-COURSE EXECUTION ACCURACY

SGT 911.1 SGR 458.7 SG3 32.8
 RRT -.0068 RRF .0037 RTF -.6707
 SGB 1020.0 R23 .0024 R13 .6707
 SG1 911.1 SG2 458.6 THA 179.74

ORBIT DETERMINATION ACCURACY

ST 381.9 SR 418.5 SS 369.3
 CRT .6989 CRS .7882 CST .9895
 LSA 633.4 MSA 236.5 SSA 14.2
 EL1 522.6 EL2 218.7 ALF 48.74

LAUNCH DATE DEC 15 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 153.601

RL 147.23 LAL .00 LOL 83.09 VL 19.614 GAL 18.79 AZL 86.33 MCA 52.94 SMA 93.59 ECC .63102 INC 3.6695 V1 30.259
 RP 107.48 LAP 2.93 LOP 135.97 VP 32.427 GAP -38.33 AZP 87.79 TAL 168.10 TAP 221.04 RCA 34.53 APO 152.65 V2 35.258
 RC 67.184 GL 5.07 GP .56 ZAL 61.20 ZAP 26.01 ETS 180.89 ZAE 139.90 ETE 190.69 ZAC 76.90 ETC 165.26 CLP 26.01

PLANETOCENTRIC CONIC

C3 180.964 VHL 13.452 DLA 13.27 RAL 18.41 RAD 6570.9 VEL 17.386 PTH 2.96 VHP 22.401 DPA -9.66 RAP 344.51 ECC 3.9782
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 16 15 3142.55 -26.80 106.69 282.81 80.50 6 8 37 2542.6 -27.84 98.18
 90.00 20 41 26 4936.05 21.37 215.40 270.95 70.97 22 3 42 4336.1 18.58 207.84
 100.00 6 44 31 2857.89 -28.53 86.07 283.13 80.69 7 32 9 2257.9 -29.52 77.41
 100.00 21 55 51 4695.95 23.03 197.12 270.32 70.39 23 14 7 4096.0 20.14 189.51
 110.00 8 8 20 2595.62 -33.15 67.02 283.99 81.14 8 51 35 1995.6 -34.02 57.89
 110.00 22 48 32 4530.98 27.41 182.80 268.51 68.73 24 4 3 3931.0 24.27 175.04

DIFFERENTIAL CORRECTIONS

TDE -.7402 TRA-1.8818 TC3 -.1339 BAU .3280
 RDE -.9823 RRA .4290 RC3 -.0215 FAU .01290
 FDE .4043 FRA .7628 FC3 -.0617 BSP 2674
 BOE 1.2300 BRA 1.9301 BC3 .1356 FSP -79

MID-COURSE EXECUTION ACCURACY

SGT 952.5 SGR 462.2 SG3 35.5
 RRT -.0044 RRF .0011 RTF -.6887
 SGB 1058.7 R23 .0028 R13 .6887
 SG1 952.5 SG2 462.2 THA 179.84

ORBIT DETERMINATION ACCURACY

ST 400.7 SR 422.2 SS 385.7
 CRT .6977 CRS .7893 CST .9892
 LSA 654.8 MSA 241.9 SSA 14.4
 EL1 536.4 EL2 225.9 ALF 47.14

LAUNCH DATE DEC 15 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 159.699

RL 147.23 LAL .00 LOL 83.09 VL 20.200 GAL 17.97 AZL 86.36 MCA 56.19 SMA 95.16 ECC .60514 INC 3.6357 V1 30.259
 RP 107.48 LAP 3.02 LOP 139.22 VP 32.784 GAP -36.59 AZP 87.97 TAL 167.32 TAP 223.51 RCA 37.57 APO 152.74 V2 35.257
 RC 65.159 GL 5.44 GP .58 ZAL 60.16 ZAP 24.54 ETS 181.12 ZAE 140.53 ETE 191.33 ZAC 78.62 ETC 165.45 CLP 24.53

PLANETOCENTRIC CONIC

C3 185.204 VML 12.853 DLA 14.02 RAL 19.28 RAD 6570.8 VEL 16.927 PTH 2.92 VMP 21.521 DPA -8.97 RAP 346.16 ECC 3.7188
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 9 3153.04 -26.68 107.43 282.82 80.15 6 5 42 2553.0 -27.77 98.93
 90.00 20 51 24 4895.00 20.43 212.75 270.62 69.96 22 12 59 4295.0 17.52 205.29
 100.00 6 41 55 2866.76 -28.43 86.71 283.16 80.36 7 29 42 2266.8 -29.47 78.06
 100.00 22 5 19 4656.51 22.10 194.56 269.96 69.35 23 22 55 4056.5 19.09 187.05
 110.00 8 6 49 2601.14 -33.09 67.44 284.06 80.90 8 50 10 2001.1 -34.00 58.31
 110.00 22 56 54 4494.90 26.49 180.39 268.06 67.57 24 11 49 3894.9 23.22 172.77

DIFFERENTIAL CORRECTIONS

TDE -.7432 TRA -1.8905 TC3 -.1409 BAU .3157
 RDE -.9456 RRA .4063 RC3 -.0238 FAU .01310
 FDE .4200 FRA .7893 FC3 -.0686 BSP 2799
 BOE 1.2027 BRA 1.9337 BC3 .1429 FSP -86

MID-COURSE EXECUTION ACCURACY

SGT 997.7 SGR 465.1 SG3 38.4
 RRT -.0007 RRF -.0020 RTF -.7058
 SGB 1100.8 R23 .0027 R13 .7058
 SG1 997.7 SG2 465.1 THA 179.98

ORBIT DETERMINATION ACCURACY

ST 421.6 SR 425.2 SS 402.7
 CRT .6976 CRS .7906 CST .9889
 LSA 677.9 MSA 246.9 SSA 14.6
 EL1 551.7 EL2 232.8 ALF 45.35

LAUNCH DATE DEC 15 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 165.878

RL 147.23 LAL .00 LOL 83.09 VL 20.748 GAL 17.18 AZL 86.40 MCA 59.43 SMA 96.71 ECC .57993 INC 3.6044 V1 30.259
 RP 107.49 LAP 3.10 LOP 142.47 VP 33.122 GAP -34.94 AZP 88.17 TAL 166.56 TAP 226.00 RCA 40.63 APO 152.80 V2 35.254
 RC 65.173 GL 5.82 GP .60 ZAL 59.18 ZAP 23.09 ETS 181.36 ZAE 141.27 ETE 192.02 ZAC 80.35 ETC 165.62 CLP 23.08

PLANETOCENTRIC CONIC

C3 150.872 VML 12.283 DLA 14.75 RAL 20.08 RAD 6570.6 VEL 16.499 PTH 2.87 VMP 20.671 DPA -8.26 RAP 347.83 ECC 3.4830
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 9 49 3162.85 -26.56 108.13 282.72 79.82 6 2 31 2562.9 -27.70 99.64
 90.00 21 1 11 4853.28 19.44 210.10 270.25 69.00 22 22 4 4253.3 16.41 202.73
 100.00 6 39 6 2874.91 -28.34 87.30 283.07 80.07 7 27 1 2274.9 -29.42 78.66
 100.00 22 14 35 4616.46 21.12 191.99 269.55 68.34 23 31 31 4016.5 17.99 184.59
 110.00 8 5 5 2605.84 -33.04 67.80 284.00 80.70 8 48 31 2005.8 -33.97 58.68
 110.00 23 5 5 4458.29 25.52 177.99 267.55 66.45 24 19 23 3858.3 22.11 170.50

DIFFERENTIAL CORRECTIONS

TDE -.7438 TRA -1.8958 TC3 -.1472 BAU .3016
 RDE -.9091 RRA .3837 RC3 -.0264 FAU .01333
 FDE .4361 FRA .8160 FC3 -.0765 BSP 2992
 BOE 1.1746 BRA 1.9342 BC3 .1495 FSP -95

MID-COURSE EXECUTION ACCURACY

SGT 1042.7 SGR 467.2 SG3 41.6
 RRT .0027 RRF -.0055 RTF -.7224
 SGB 1142.6 R23 -.0031 R13 -.7224
 SG1 1042.7 SG2 467.2 THA .09

ORBIT DETERMINATION ACCURACY

ST 442.4 SR 427.7 SS 420.2
 CRT .6972 CRS .7920 CST .9886
 LSA 701.2 MSA 251.5 SSA 14.8
 EL1 566.9 EL2 239.3 ALF 43.61

LAUNCH DATE DEC 15 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 172.134

RL 147.23 LAL .00 LOL 83.09 VL 21.262 GAL 16.42 AZL 86.42 MCA 62.68 SMA 98.26 ECC .55545 INC 3.5752 V1 30.259
 RP 107.50 LAP 3.18 LOP 145.72 VP 33.443 GAP -33.36 AZP 88.36 TAL 165.83 TAP 228.51 RCA 43.68 APO 152.83 V2 35.251
 RC 61.231 GL 6.22 GP .62 ZAL 58.27 ZAP 21.65 ETS 181.63 ZAE 142.14 ETE 192.76 ZAC 82.09 ETC 165.78 CLP 21.64

PLANETOCENTRIC CONIC

C3 137.834 VML 11.740 DLA 15.47 RAL 20.84 RAD 6570.5 VEL 16.099 PTH 2.83 VMP 19.849 DPA -7.53 RAP 349.50 ECC 3.2684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 12 3172.04 -26.45 108.78 282.50 79.51 5 59 4 2572.0 -27.63 100.31
 90.00 21 10 48 4810.87 18.38 207.43 269.82 68.07 22 30 59 4210.9 15.25 200.16
 100.00 6 36 1 2882.37 -28.25 87.84 282.87 79.80 7 24 4 2282.4 -29.37 79.21
 100.00 22 23 40 4575.78 20.07 189.42 269.09 67.37 23 39 56 3975.8 16.83 182.12
 110.00 8 3 9 2609.78 -33.00 68.09 283.83 80.52 8 46 38 2009.8 -33.95 58.99
 110.00 23 13 2 4421.13 24.49 175.60 267.00 65.37 24 26 43 3821.1 20.96 168.23

DIFFERENTIAL CORRECTIONS

TDE -.7473 TRA -1.9025 TC3 -.1538 BAU .2884
 RDE -.8728 RRA .3613 RC3 -.0291 FAU .01359
 FDE .4531 FRA .8436 FC3 -.0853 BSP 3129
 BOE 1.1490 BRA 1.9365 BC3 .1565 FSP -104

MID-COURSE EXECUTION ACCURACY

SGT 1091.6 SGR 468.6 SG3 45.0
 RRT .0074 RRF -.0096 RTF -.7381
 SGB 1187.9 R23 -.0030 R13 -.7381
 SG1 1091.6 SG2 468.6 THA .22

ORBIT DETERMINATION ACCURACY

ST 465.5 SR 429.5 SS 438.4
 CRT .6978 CRS .7937 CST .9884
 LSA 726.5 MSA 255.5 SSA 15.0
 EL1 583.9 EL2 245.2 ALF 41.71

LAUNCH DATE DEC 15 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 178.459

RL 147.23 LAL .00 LOL 83.09 VL 21.743 GAL 15.69 AZL 86.45 MCA 65.93 SMA 99.78 ECC .53175 INC 3.5476 V1 30.259
 RP 107.51 LAP 3.24 LOP 148.98 VP 33.747 GAP -31.85 AZP 88.55 TAL 165.12 TAP 231.05 RCA 46.72 APO 152.84 V2 35.248
 RC 59.338 GL 6.63 GP .65 ZAL 57.41 ZAP 20.22 ETS 181.93 ZAE 143.12 ETE 193.57 ZAC 83.85 ETC 165.93 CLP 20.21

PLANETOCENTRIC CONIC

C3 125.966 VML 11.223 DLA 16.18 RAL 21.54 RAD 6570.3 VEL 15.726 PTH 2.79 VMP 19.054 DPA -6.79 RAP 351.17 ECC 3.0731
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 2 18 3180.68 -26.34 109.39 282.17 79.22 5 55 19 2580.7 -27.57 100.93
 90.00 21 20 17 4767.73 17.26 204.76 269.34 67.20 22 39 45 4167.7 14.03 197.58
 100.00 6 32 41 2889.20 -28.17 88.33 282.56 79.55 7 20 51 2289.2 -29.32 79.72
 100.00 22 32 35 4534.44 18.97 186.84 268.58 66.46 23 48 10 3934.4 15.62 179.65
 110.00 8 0 58 2612.98 -32.96 68.34 283.54 80.38 8 44 31 2013.0 -33.94 59.23
 110.00 23 20 47 4383.43 23.40 173.22 266.40 64.34 24 33 51 3783.4 19.75 165.98

DIFFERENTIAL CORRECTIONS

TDE -.7489 TRA -1.9056 TC3 -.1593 BAU .2737
 RDE -.8368 RRA .3392 RC3 -.0320 FAU .01389
 FDE .4708 FRA .8717 FC3 -.0954 BSP 3328
 BOE 1.1230 BRA 1.9356 BC3 .1625 FSP -115

MID-COURSE EXECUTION ACCURACY

SGT 1140.2 SGR 469.2 SG3 48.7
 RRT .0120 RRF -.0141 RTF -.7533
 SGB 1233.0 R23 -.0033 R13 -.7533
 SG1 1140.3 SG2 469.2 THA .34

ORBIT DETERMINATION ACCURACY

ST 488.5 SR 430.6 SS 457.2
 CRT .6984 CRS .7956 CST .9882
 LSA 752.2 MSA 258.9 SSA 15.1
 EL1 601.1 EL2 250.5 ALF 39.87

LAUNCH DATE DEC 15 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 184.848

RL 147.23 LAL .00 LOL 83.09 VL 22.192 GAL 14.99 AZL 86.48 MCA 69.17 SMA 101.29 ECC .50885 INC 3.5214 V1 30.259
 RP 107.52 LAP 3.29 LOP 152.23 VP 34.034 GAP -30.40 A2P 88.75 TAL 164.43 TAP 233.61 RCA 49.75 APO 152.83 V2 35.243
 RC 57.501 GL 7.05 GP .68 ZAL 56.61 ZAP 18.81 ETS 182.26 ZAE 144.23 ETE 194.45 ZAC 85.61 ETC 166.06 CLP 18.79

PLANETOCENTRIC CONIC

C3 115.159 VML 10.731 DLA 16.88 RAL 22.18 RAD 6570.2 VEL 15.378 PTH 2.75 VMP 18.285 DPA -6.04 RAP 352.85 ECC 2.8952
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 7 3188.84 -26.24 109.96 281.73 78.95 5 51 15 2588.8 -27.50 101.52
 90.00 21 29 38 4723.86 16.09 202.08 268.82 66.38 22 48 22 4123.9 12.76 194.99
 100.00 6 29 5 2895.48 -28.09 88.78 282.13 79.33 7 17 20 2295.5 -29.27 80.18
 100.00 22 41 21 4492.45 17.81 184.27 268.02 65.59 23 56 13 3892.5 14.36 177.17
 110.00 7 58 34 2615.50 -32.93 68.53 283.14 80.27 8 42 9 2015.5 -33.92 59.43
 110.00 23 28 21 4345.19 22.25 170.84 265.76 63.35 24 40 46 3745.2 18.49 163.72

DIFFERENTIAL CORRECTIONS

TDE -.7509 TRA-1.9074 TC3 -.1643 BAU .2586
 RDE -.8013 RRA .3173 RC3 -.0351 FAU .01422
 FDE .4894 FRA .9005 FC3 -.1069 BSP 3529
 BDE 1.0981 BRA 1.9336 BC3 .1680 FSP -126

MID-COURSE EXECUTION ACCURACY

SGT 1190.7 SGR 469.1 SG3 52.8
 RRT .0172 RRF -.0193 RTF -.7678
 SGB 1279.8 R23 -.0036 R13 -.7678
 SG1 1190.7 SG2 469.0 THA .46

ORBIT DETERMINATION ACCURACY

ST 512.6 SR 431.1 SS 476.7
 CRT .6995 CRS .7977 CST .9879
 LSA 779.2 MSA 261.7 SSA 15.2
 EL1 619.3 EL2 255.0 ALF 38.01

LAUNCH DATE DEC 15 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 191.296

RL 147.23 LAL .00 LOL 83.09 VL 22.613 GAL 14.32 AZL 86.50 MCA 72.42 SMA 102.77 ECC .48677 INC 3.4963 V1 30.259
 RP 107.54 LAP 3.33 LOP 155.48 VP 34.304 GAP -29.02 A2P 88.94 TAL 163.78 TAP 236.20 RCA 52.74 APO 152.79 V2 35.238
 RC 55.726 GL 7.48 GP .71 ZAL 55.87 ZAP 17.40 ETS 182.64 ZAE 145.48 ETE 195.42 ZAC 87.39 ETC 166.18 CLP 17.38

PLANETOCENTRIC CONIC

C3 105.317 VML 10.262 DLA 17.57 RAL 22.77 RAD 6570.0 VEL 15.055 PTH 2.71 VMP 17.541 DPA -5.27 RAP 354.53 ECC 2.7332
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 36 3196.61 -26.14 110.51 281.18 78.70 5 46 53 2596.6 -27.43 102.08
 90.00 21 38 51 4679.23 14.85 199.39 268.25 65.61 22 56 50 4079.2 11.44 192.37
 100.00 6 23 11 2901.26 -28.02 89.19 281.59 79.12 7 13 32 2301.3 -29.23 80.60
 100.00 22 49 57 4449.80 16.59 181.69 267.42 64.77 24 4 7 3849.8 13.05 174.68
 110.00 7 55 55 2617.40 -32.91 68.67 282.63 80.19 8 39 32 2017.4 -33.91 59.58
 110.00 23 35 43 4306.43 21.05 168.48 265.08 62.42 24 47 29 3706.4 17.19 161.48

DIFFERENTIAL CORRECTIONS

TDE -.7531 TRA-1.9076 TC3 -.1685 BAU .2432
 RDE -.7662 RRA .2959 RC3 -.0383 FAU .01460
 FDE .5090 FRA .9303 FC3 -.1200 BSP 3737
 BDE 1.0744 BRA 1.9304 BC3 .1728 FSP -139

MID-COURSE EXECUTION ACCURACY

SGT 1242.8 SGR 468.2 SG3 57.2
 RRT .0231 RRF -.0251 RTF -.7816
 SGB 1328.0 R23 -.0040 R13 -.7816
 SG1 1242.8 SG2 468.0 THA .58

ORBIT DETERMINATION ACCURACY

ST 537.8 SR 430.9 SS 497.0
 CRT .7010 CRS .8000 CST .9877
 LSA 807.5 MSA 263.8 SSA 15.4
 EL1 638.7 EL2 258.7 ALF 36.16

LAUNCH DATE DEC 15 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 197.797

RL 147.23 LAL .00 LOL 83.09 VL 23.008 GAL 13.67 AZL 86.53 MCA 75.66 SMA 104.22 ECC .46553 INC 3.4721 V1 30.259
 RP 107.56 LAP 3.36 LOP 158.72 VP 34.559 GAP -27.69 A2P 89.14 TAL 163.16 TAP 238.82 RCA 55.70 APO 152.74 V2 35.232
 RC 54.021 GL 7.93 GP .74 ZAL 55.19 ZAP 16.00 ETS 183.08 ZAE 146.86 ETE 196.50 ZAC 89.16 ETC 166.28 CLP 15.98

PLANETOCENTRIC CONIC

C3 96.352 VML 9.816 DLA 18.26 RAL 23.31 RAD 6569.9 VEL 14.754 PTH 2.67 VMP 16.820 DPA -4.50 RAP 356.20 ECC 2.5857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 45 3204.08 -26.04 111.03 280.52 78.45 5 42 9 2604.1 -27.37 102.61
 90.00 21 47 58 4633.83 13.56 196.68 267.64 64.90 23 5 11 4033.8 10.06 189.74
 100.00 6 20 59 2906.64 -27.95 89.58 280.94 78.93 7 9 26 2306.6 -29.19 81.00
 100.00 22 58 25 4406.50 15.31 179.10 266.77 64.01 24 11 51 3806.5 11.70 172.18
 110.00 7 53 0 2618.74 -32.90 68.77 282.00 80.13 8 36 39 2018.7 -33.91 59.68
 110.00 23 42 53 4267.17 19.79 166.12 264.36 61.54 24 54 0 3667.2 15.84 159.23

DIFFERENTIAL CORRECTIONS

TDE -.7558 TRA-1.9063 TC3 -.1717 BAU .2276
 RDE -.7316 RRA .2749 RC3 -.0417 FAU .01501
 FDE .5299 FRA .9611 FC3 -.1349 BSP 3952
 BDE 1.0519 BRA 1.9260 BC3 .1767 FSP -152

MID-COURSE EXECUTION ACCURACY

SGT 1296.6 SGR 466.5 SG3 62.0
 RRT .0298 RRF -.0316 RTF -.7948
 SGB 1378.0 R23 -.0044 R13 -.7948
 SG1 1296.7 SG2 466.3 THA .71

ORBIT DETERMINATION ACCURACY

ST 564.2 SR 430.1 SS 518.2
 CRT .7032 CRS .8027 CST .9876
 LSA 837.3 MSA 265.3 SSA 15.5
 EL1 659.4 EL2 261.6 ALF 34.33

LAUNCH DATE DEC 15 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 204.346

RL 147.23 LAL .00 LOL 83.09 VL 23.376 GAL 13.05 AZL 86.55 MCA 78.90 SMA 105.64 ECC .44515 INC 3.4486 V1 30.259
 RP 107.58 LAP 3.38 LOP 161.97 VP 34.799 GAP -26.41 A2P 89.34 TAL 162.56 TAP 241.47 RCA 58.61 APO 152.66 V2 35.226
 RC 52.393 GL 8.39 GP .78 ZAL 54.57 ZAP 14.61 ETS 183.58 ZAE 148.38 ETE 197.71 ZAC 90.94 ETC 166.36 CLP 14.59

PLANETOCENTRIC CONIC

C3 88.189 VML 9.391 DLA 18.93 RAL 23.79 RAD 6569.7 VEL 14.475 PTH 2.63 VMP 16.123 DPA -3.71 RAP 357.88 ECC 2.4514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 33 3211.36 -25.94 111.54 279.75 78.22 5 37 4 2611.4 -27.30 103.14
 90.00 21 56 59 4587.67 12.21 193.96 266.99 64.25 23 13 27 3987.7 8.64 187.10
 100.00 6 16 29 2911.70 -27.88 89.94 280.20 78.75 7 5 0 2311.7 -29.15 81.37
 100.00 23 6 45 4362.56 13.99 176.52 266.09 63.31 24 19 27 3762.6 10.29 169.67
 110.00 7 49 51 2619.58 -32.89 68.84 281.28 80.10 8 33 30 2019.6 -33.90 59.75
 110.00 23 49 52 4227.44 18.48 163.78 263.60 60.72 25 0 19 3627.4 14.44 157.00

DIFFERENTIAL CORRECTIONS

TDE -.7615 TRA-1.9058 TC3 -.1751 BAU .2132
 RDE -.6977 RRA .2543 RC3 -.0453 FAU .01546
 FDE .5526 FRA .9934 FC3 -.1518 BSP 4107
 BDE 1.0328 BRA 1.9227 BC3 .1809 FSP -167

MID-COURSE EXECUTION ACCURACY

SGT 1354.7 SGR 464.1 SG3 67.2
 RRT .0383 RRF -.0392 RTF -.8069
 SGB 1432.0 R23 -.0042 R13 -.8069
 SG1 1354.8 SG2 463.7 THA .85

ORBIT DETERMINATION ACCURACY

ST 593.3 SR 428.5 SS 540.7
 CRT .7067 CRS .8057 CST .9876
 LSA 870.1 MSA 265.9 SSA 15.6
 EL1 682.8 EL2 263.5 ALF 32.45

LAUNCH DATE DEC 15 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 210.938

RL 147.23 LAL .00 LOL 83.09 VL 23.721 GAL 12.46 AZL 86.57 MCA 82.14 SMA 107.02 ECC .42562 INC 3.4256 V1 30.259
 RP 107.60 LAP 3.39 LOP 165.22 VP 35.025 GAP -25.19 AZP 89.53 TAL 162.01 TAP 244.15 RCA 61.47 APO 152.57 V2 35.219
 RC 50.852 GL 8.86 GP .82 ZAL 54.01 ZAP 13.22 ETS 184.19 ZAE 150.05 ETE 199.08 ZAC 92.72 ETC 166.42 CLP 13.19

PLANETOCENTRIC CONIC

C3 80.754 VHL 8.986 DLA 19.60 RAL 24.21 RAD 6569.6 VEL 14.216 PTH 2.59 VHP 15.448 DPA -2.92 RAP 359.55 ECC 2.3290
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 37 58 3218.57 -25.83 112.04 278.89 77.98 5 31 37 2618.6 -27.23 103.65
 90.00 22 5 56 4540.73 10.80 191.23 266.30 63.67 23 21 36 3940.7 7.18 184.42
 100.00 6 11 38 2916.54 -27.81 90.28 279.35 78.58 7 0 15 2316.5 -29.11 81.72
 100.00 23 14 57 4318.00 12.61 173.92 265.37 62.67 24 26 55 3718.0 8.85 167.15
 110.00 7 46 25 2620.01 -32.88 68.87 280.45 80.08 8 30 5 2020.0 -33.90 59.78
 110.00 0 0 35 4187.29 17.13 161.46 262.81 59.96 1 10 23 3587.3 13.01 154.77

DIFFERENTIAL CORRECTIONS

TDE -.7653 TRA-1.9013 TC3 -.1762 BAU .1974
 RDE -.6645 RRA .2343 RC3 -.0489 FAU .01597
 FDE .5765 FRA 1.0267 FC3 -.1712 BSP 4322
 BDE 1.0135 BRA 1.9157 BC3 .1828 FSP -183

MID-COURSE EXECUTION ACCURACY

SGT 1412.2 SGR 480.8 SG3 72.9
 RRT .0469 RRF -.0476 RTF -.8188
 SGB 1485.4 R23 -.0046 R13 -.8188
 SG1 1412.3 SG2 460.2 THA .98

ORBIT DETERMINATION ACCURACY

ST 622.3 SR 426.3 SS 564.2
 CRT .7101 CRS .8091 CST .9876
 LSA 903.5 MSA 265.9 SSA 15.8
 EL1 706.4 EL2 264.4 ALF 30.70

LAUNCH DATE DEC 15 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 217.567

RL 147.23 LAL .00 LOL 83.09 VL 24.043 GAL 11.88 AZL 86.60 MCA 85.38 SMA 108.37 ECC .40694 INC 3.4030 V1 30.259
 RP 107.62 LAP 3.39 LOP 168.47 VP 35.236 GAP -24.01 AZP 89.73 TAL 161.49 TAP 246.87 RCA 64.27 APO 152.46 V2 35.211
 RC 49.405 GL 9.34 GP .86 ZAL 53.51 ZAP 11.83 ETS 184.93 ZAE 151.85 ETE 200.67 ZAC 94.50 ETC 166.47 CLP 11.80

PLANETOCENTRIC CONIC

C3 73.984 VHL 8.601 DLA 20.25 RAL 24.57 RAD 6569.4 VEL 13.976 PTH 2.55 VHP 14.795 DPA -2.13 RAP 1.22 ECC 2.2176
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 0 3225.82 -25.73 112.55 277.93 77.75 5 25 46 2625.8 -27.16 104.17
 90.00 22 14 49 4493.04 9.35 188.48 265.58 63.15 23 29 42 3893.0 5.67 181.73
 100.00 6 6 27 2921.25 -27.75 90.62 278.40 78.42 6 55 8 2321.2 -29.07 82.06
 100.00 23 23 3 4272.85 11.18 171.33 264.62 62.10 24 34 16 3672.8 7.36 164.62
 110.00 7 42 43 2620.08 -32.88 68.87 279.53 80.08 8 26 23 2020.1 -33.90 59.79
 110.00 0 7 12 4146.78 15.74 159.14 261.99 59.26 1 16 19 3546.8 11.54 152.55

DIFFERENTIAL CORRECTIONS

TDE -.7695 TRA-1.8948 TC3 -.1757 BAU .1814
 RDE -.6319 RRA .2147 RC3 -.0526 FAU .01654
 FDE .6023 FRA 1.0614 FC3 -.1936 BSP 4544
 BDE .9958 BRA 1.9069 BC3 .1834 FSP -201

MID-COURSE EXECUTION ACCURACY

SGT 1471.1 SGR 456.8 SG3 79.2
 RRT .0566 RRF -.0570 RTF -.8300
 SGB 1540.4 R23 -.0050 R13 -.8300
 SG1 1471.3 SG2 456.0 THA 1.11

ORBIT DETERMINATION ACCURACY

ST 652.5 SR 423.4 SS 588.8
 CRT .7143 CRS .8127 CST .9876
 LSA 938.7 MSA 265.0 SSA 15.9
 EL1 731.6 EL2 264.3 ALF 29.01

LAUNCH DATE DEC 15 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 224.229

RL 147.23 LAL .00 LOL 83.09 VL 24.344 GAL 11.33 AZL 86.62 MCA 88.62 SMA 109.67 ECC .38911 INC 3.3806 V1 30.259
 RP 107.65 LAP 3.38 LOP 171.71 VP 35.434 GAP -22.88 AZP 89.92 TAL 161.00 TAP 249.62 RCA 67.00 APO 152.34 V2 35.202
 RC 48.064 GL 9.84 GP .91 ZAL 53.07 ZAP 10.44 ETS 185.86 ZAE 153.80 ETE 202.52 ZAC 96.27 ETC 166.50 CLP 10.40

PLANETOCENTRIC CONIC

C3 67.822 VHL 8.235 DLA 20.90 RAL 24.88 RAD 6569.3 VEL 13.754 PTH 2.51 VHP 14.163 DPA -1.32 RAP 2.87 ECC 2.1162
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 36 3233.27 -25.62 113.07 276.87 77.51 5 19 29 2633.3 -27.09 104.71
 90.00 22 23 40 4444.59 7.85 185.71 264.83 62.71 23 37 45 3844.6 4.13 179.01
 100.00 6 0 55 2925.94 -27.69 90.95 277.37 78.25 6 49 40 2325.9 -29.02 82.41
 100.00 23 31 3 4227.14 9.72 168.73 263.83 61.59 24 41 30 3627.1 5.85 162.08
 110.00 7 38 44 2619.88 -32.88 68.86 278.52 80.08 8 22 24 2019.9 -33.90 59.77
 110.00 0 13 38 4105.97 14.30 156.85 261.14 58.62 1 22 4 3506.0 10.04 150.34

DIFFERENTIAL CORRECTIONS

TDE -.7742 TRA-1.8864 TC3 -.1735 BAU .1654
 RDE -.6002 RRA .1957 RC3 -.0564 FAU .01718
 FDE .6301 FRA 1.0977 FC3 -.2192 BSP 4767
 BDE .9796 BRA 1.8965 BC3 .1824 FSP -221

MID-COURSE EXECUTION ACCURACY

SGT 1531.4 SGR 451.9 SG3 86.0
 RRT .0675 RRF -.0675 RTF -.8406
 SGB 1596.7 R23 -.0054 R13 -.8406
 SG1 1531.8 SG2 450.8 THA 1.25

ORBIT DETERMINATION ACCURACY

ST 684.0 SR 419.9 SS 614.8
 CRT .7191 CRS .8167 CST .9876
 LSA 975.9 MSA 263.5 SSA 15.9
 EL1 758.2 EL2 263.2 ALF 27.39

LAUNCH DATE DEC 15 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 230.919

RL 147.23 LAL .00 LOL 83.09 VL 24.625 GAL 10.80 AZL 86.64 MCA 91.86 SMA 110.93 ECC .37211 INC 3.3583 V1 30.259
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.619 GAP -21.78 AZP 90.11 TAL 160.56 TAP 252.41 RCA 69.65 APO 152.21 V2 35.194
 RC 46.839 GL 10.35 GP .96 ZAL 52.69 ZAP 9.05 ETS 187.08 ZAE 155.87 ETE 204.72 ZAC 98.03 ETC 166.51 CLP 9.00

PLANETOCENTRIC CONIC

C3 62.215 VHL 7.888 DLA 21.54 RAL 25.13 RAD 6569.2 VEL 13.549 PTH 2.48 VHP 13.552 DPA -.52 RAP 4.52 ECC 2.0239
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 46 3241.04 -25.51 113.61 275.73 77.27 5 12 47 2641.0 -27.01 105.26
 90.00 22 32 30 4395.38 6.30 182.92 264.05 62.34 23 45 46 3795.4 2.55 176.25
 100.00 5 55 0 2930.72 -27.62 91.29 276.24 78.09 6 43 51 2330.7 -28.98 82.76
 100.00 23 38 57 4180.94 8.21 166.13 263.02 61.16 24 48 38 3580.9 4.30 159.53
 110.00 7 34 29 2619.49 -32.89 68.83 277.42 80.10 8 18 8 2019.5 -33.90 59.74
 110.00 0 19 53 4064.93 12.84 154.58 260.26 58.04 1 27 38 3464.9 8.52 148.14

DIFFERENTIAL CORRECTIONS

TDE -.7794 TRA-1.8762 TC3 -.1692 BAU .1493
 RDE -.5694 RRA .1773 RC3 -.0601 FAU .01788
 FDE .6602 FRA 1.1360 FC3 -.2489 BSP 4995
 BDE .9653 BRA 1.8846 BC3 .1795 FSP -243

MID-COURSE EXECUTION ACCURACY

SGT 1593.3 SGR 446.4 SG3 93.5
 RRT .0796 RRF -.0793 RTF -.8506
 SGB 1654.6 R23 -.0059 R13 -.8506
 SG1 1593.7 SG2 444.8 THA 1.39

ORBIT DETERMINATION ACCURACY

ST 716.8 SR 415.7 SS 642.3
 CRT .7247 CRS .8211 CST .9877
 LSA 1015.3 MSA 261.1 SSA 16.0
 EL1 786.4 EL2 261.1 ALF 25.85

LAUNCH DATE DEC 15 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 24.888 GAL 10.30 AZL 86.66 MCA 95.09 SMA 112.15 ECC .35594 INC 3.3359 V1 30.259
 RP 107.71 LAP 3.32 LOP 178.19 VP 35.791 GAP -20.73 AZP 90.30 TAL 160.15 TAP 255.24 RCA 72.23 APO 152.07 V2 35.184
 RC 45.742 GL 10.87 GP 1.02 ZAL 52.37 ZAP 7.66 ETS 188.76 ZAE 158.06 ETE 207.39 ZAC 99.78 ETC 166.50 CLP 7.59

PLANETOCENTRIC CONIC
 C3 57.114 VML 7.557 OLA 22.17 RAL 25.32 RAD 6569.0 VEL 13.359 PTH 2.44 VHP 12.960 DPA .29 RAP 6.16 ECC 1.9400
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 27 3249.30 -25.38 114.18 274.50 77.00 5 5 36 2649.3 -26.92 105.85
 90.00 22 41 21 4345.43 4.72 180.11 263.25 62.05 23 53 46 3745.4 .94 173.46
 100.00 5 48 43 2935.70 -27.55 91.65 275.04 77.91 6 37 38 2335.7 -28.94 83.12
 100.00 23 46 47 4134.27 6.67 163.52 262.18 60.79 24 55 41 3534.3 2.72 156.96
 110.00 7 29 57 2618.98 -32.89 68.79 276.24 80.12 8 13 36 2019.0 -33.91 59.70
 110.00 0 25 58 4023.75 11.34 152.32 259.36 57.54 1 33 2 3423.7 6.98 145.95

DIFFERENTIAL CORRECTIONS
 TOE -.7847 TRA-1.8638 TC3 -.1624 BAU .1332 SGT 1656.0 SGR 440.0 SG3 101.7 ST 750.7 SR 410.9 SS 671.3
 RDE -.5395 RRA .1594 RC3 -.0637 FAU .01867 RRT .0931 RRF -.0926 RTF -.8601 CRT .7309 CRS .8259 CST .9878
 FDE .6928 FRA 1.1763 FC3 -.2830 BSP 5231 SGB 1713.4 R23 -.0065 R13 -.8601 LSA 1056.5 MSA 258.1 SSA 16.1
 BDE .9523 BRA 1.8706 BC3 .1744 FSP -267 SGI 1656.5 SG2 438.0 TMA 1.52 EL1 816.0 EL2 258.0 ALF 24.40

LAUNCH DATE DEC 15 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 25.133 GAL 9.81 AZL 86.69 MCA 98.33 SMA 113.32 ECC .34058 INC 3.3133 V1 30.259
 RP 107.74 LAP 3.28 LOP 181.43 VP 35.952 GAP -19.72 AZP 90.48 TAL 159.78 TAP 258.11 RCA 74.73 APO 151.92 V2 35.174
 RC 44.782 GL 11.40 GP 1.09 ZAL 52.12 ZAP 6.26 ETS 191.21 ZAE 160.34 ETE 210.71 ZAC 101.52 ETC 166.47 CLP 6.17

PLANETOCENTRIC CONIC
 C3 52.477 VML 7.244 OLA 22.78 RAL 25.46 RAD 6568.9 VEL 13.185 PTH 2.41 VHP 12.387 DPA 1.10 RAP 7.78 ECC 1.8636
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 3 39 3258.22 -25.24 114.80 273.20 76.73 4 57 57 2658.2 -26.82 106.48
 90.00 22 50 14 4294.73 3.09 177.27 262.42 61.84 24 1 49 3694.7 -7.70 170.64
 100.00 5 42 2 2940.98 -27.47 92.02 273.76 77.73 6 31 3 2341.0 -28.89 83.50
 100.00 23 54 32 4087.20 5.09 160.91 261.32 60.51 25 2 39 3487.2 1.13 154.37
 110.00 7 25 8 2618.42 -32.90 68.75 274.99 80.15 8 8 47 2018.4 -33.91 59.66
 110.00 0 31 51 3982.53 9.83 150.09 258.43 57.09 1 38 14 3382.5 5.42 143.77

DIFFERENTIAL CORRECTIONS
 TOE -.7910 TRA-1.8496 TC3 -.1530 BAU .1172 SGT 1719.9 SGR 433.0 SG3 110.8 ST 786.2 SR 405.6 SS 702.3
 RDE -.5107 RRA .1421 RC3 -.0672 FAU .01954 RRT .1085 RRF -.1076 RTF -.8690 CRT .7380 CRS .8312 CST .9881
 FDE .7285 FRA 1.2191 FC3 -.3224 BSP 5461 SGB 1773.6 R23 -.0071 R13 -.8691 LSA 1100.4 MSA 254.2 SSA 16.2
 BDE .9415 BRA 1.8550 BC3 .1671 FSP -294 SGI 1720.6 SG2 430.3 TMA 1.67 EL1 847.4 EL2 253.9 ALF 23.03

LAUNCH DATE DEC 15 1968

FLIGHT TIME 106.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 25.361 GAL 9.35 AZL 86.71 MCA 101.56 SMA 114.45 ECC .32602 INC 3.2903 V1 30.259
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.102 GAP -18.74 AZP 90.66 TAL 159.46 TAP 261.02 RCA 77.14 APO 151.76 V2 35.164
 RC 43.971 GL 11.93 GP 1.16 ZAL 51.92 ZAP 4.87 ETS 195.11 ZAE 162.68 ETE 214.95 ZAC 103.24 ETC 166.42 CLP 4.73

PLANETOCENTRIC CONIC
 C3 48.262 VML 6.947 OLA 23.39 RAL 25.54 RAD 6568.8 VEL 13.024 PTH 2.38 VHP 11.833 DPA 1.91 RAP 9.39 ECC 1.7943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 55 19 3267.97 -25.09 115.47 271.83 76.42 4 49 47 2668.0 -26.71 107.18
 90.00 22 59 12 4243.27 1.44 174.39 261.58 61.72 24 9 55 3643.3 -2.36 167.77
 100.00 5 34 57 2946.68 -27.39 92.42 272.42 77.53 6 24 4 2346.7 -28.83 83.92
 100.00 0 6 10 4039.79 3.50 158.30 260.43 60.29 1 13 30 3439.8 -4.48 151.77
 110.00 7 20 4 2617.86 -32.91 68.71 273.67 80.17 8 3 41 2017.9 -33.91 59.61
 110.00 0 37 33 3941.37 8.30 147.89 257.48 56.72 1 43 15 3341.4 3.86 141.61

DIFFERENTIAL CORRECTIONS
 TOE -.7979 TRA-1.8336 TC3 -.1409 BAU .1016 SGT 1784.9 SGR 425.3 SG3 120.7 ST 823.0 SR 399.6 SS 735.3
 RDE -.4828 RRA .1254 RC3 -.0704 FAU .02050 RRT .1258 RRF -.1246 RTF -.8774 CRT .7459 CRS .8368 CST .9883
 FDE .7676 FRA 1.2646 FC3 -.3678 BSP 5690 SGB 1834.9 R23 -.0077 R13 -.8775 LSA 1146.8 MSA 249.7 SSA 16.2
 BDE .9326 BRA 1.8379 BC3 .1575 FSP -323 SGI 1785.8 SG2 421.7 TMA 1.82 EL1 880.4 EL2 248.8 ALF 21.73

LAUNCH DATE DEC 15 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 25.573 GAL 8.91 AZL 86.73 MCA 104.79 SMA 115.53 ECC .31223 INC 3.2668 V1 30.259
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.241 GAP -17.80 AZP 90.83 TAL 159.18 TAP 263.97 RCA 79.46 APO 151.60 V2 35.153
 RC 43.319 GL 12.47 GP 1.25 ZAL 51.78 ZAP 3.51 ETS 202.20 ZAE 165.01 ETE 220.53 ZAC 104.94 ETC 166.34 CLP 3.28

PLANETOCENTRIC CONIC
 C3 44.433 VML 6.666 OLA 23.98 RAL 25.56 RAD 6568.7 VEL 12.876 PTH 2.35 VHP 11.298 DPA 2.72 RAP 10.97 ECC 1.7313
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 46 25 3278.75 -24.91 116.21 270.38 76.09 4 41 4 2678.7 -26.58 107.94
 90.00 23 8 16 4191.02 -.25 171.48 260.72 61.68 24 18 7 3591.0 -4.03 164.84
 100.00 5 27 29 2952.90 -27.30 92.86 271.01 77.32 6 16 42 2352.9 -28.77 84.37
 100.00 0 13 49 3992.10 1.89 155.67 259.53 60.16 1 20 21 3392.1 -2.10 149.15
 110.00 7 14 44 2617.36 -32.91 68.67 272.30 80.19 7 58 21 2017.4 -33.91 59.57
 110.00 0 43 4 3900.40 6.76 145.71 256.52 56.41 1 48 4 3300.4 2.30 139.47

DIFFERENTIAL CORRECTIONS
 TOE -.8049 TRA-1.8158 TC3 -.1255 BAU .0863 SGT 1850.5 SGR 416.9 SG3 131.8 ST 861.0 SR 393.2 SS 770.4
 RDE -.4561 RRA .1093 RC3 -.0733 FAU .02157 RRT .1452 RRF -.1437 RTF -.8854 CRT .7545 CRS .8429 CST .9886
 FDE .8104 FRA 1.3133 FC3 -.4203 BSP 5919 SGB 1896.9 R23 -.0085 R13 -.8855 LSA 1195.6 MSA 244.6 SSA 16.2
 BDE .9252 BRA 1.8191 BC3 .1453 FSP -356 SGI 1851.6 SG2 412.2 TMA 1.97 EL1 914.9 EL2 242.9 ALF 20.52

LAUNCH DATE DEC 15 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 264.646

RL 147.23 LAL .00 LOL 83.09 VL 25.771 GAL 8.48 AZL 86.76 MCA 108.02 SMA 116.56 ECC .29920 INC 3.2426 V1 30.259
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.370 GAP -16.89 AZP 91.00 TAL 158.94 TAP 266.95 RCA 81.68 APO 151.43 V2 35.141
 RC 42.834 GL 13.02 GP 1.34 ZAL 51.69 ZAP 2.25 ETS 218.02 ZAE 167.24 ETE 228.12 ZAC 106.60 ETC 166.24 CLP 1.81

PLANETOCENTRIC CONIC

C3 40.957 VHL 6.400 DLA 24.55 RAL 25.53 RAD 6568.6 VEL 12.741 PTH 2.32 VHP 10.780 DPA 3.53 RAP 12.54 ECC 1.6740
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 55 3290.77 -24.72 117.03 268.88 75.72 4 31 46 2690.8 -26.44 108.79
 90.00 23 17 30 4137.93 -1.96 168.52 259.85 61.75 24 26 28 3537.9 -5.73 161.86
 100.00 5 19 36 2959.71 -27.19 93.34 269.54 77.09 6 8 56 2359.7 -28.70 84.86
 100.00 0 21 26 3944.23 .26 153.05 258.61 60.11 1 27 11 3344.2 -3.71 146.52
 110.00 7 9 10 2616.95 -32.92 68.64 270.87 80.21 7 52 47 2016.9 -33.92 59.54
 110.00 0 48 22 3859.75 5.22 143.57 255.53 56.17 1 52 42 3259.8 .74 137.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8124 TRA-1.7960 TC3 -.1066 BAU .0716 SGT 1916.4 SGR 408.0 SG3 143.9 ST 900.2 SR 386.4 SS 807.8
 RDE -.4305 RRA .0936 RC3 -.0757 FAU .02277 RRT .1670 RRF -.1653 RTF -.8927 CRT .7638 CRS .8494 CST .9890
 FDE -.8575 FRA 1.3654 FC3 -.4814 BSP 6159 SGB 1959.4 R23 -.0094 R13 -.8928 LSA 1246.9 MSA 238.9 SSA 16.3
 BDE .9194 BRA 1.7985 BC3 .1307 FSP -392 SGI 1917.7 SG2 402.0 TMA 2.13 EL1 950.7 EL2 236.2 ALF 19.40

LAUNCH DATE DEC 15 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 271.420

RL 147.23 LAL .00 LOL 83.09 VL 25.955 GAL 8.08 AZL 86.78 MCA 111.24 SMA 117.54 ECC .28691 INC 3.2175 V1 30.259
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.489 GAP -16.01 AZP 91.17 TAL 158.74 TAP 269.98 RCA 83.82 APO 151.27 V2 35.129
 RC 42.524 GL 13.57 GP 1.45 ZAL 51.66 ZAP 1.48 ETS 259.41 ZAE 169.25 ETE 238.65 ZAC 108.24 ETC 166.11 CLP .31

PLANETOCENTRIC CONIC

C3 37.802 VHL 6.148 DLA 25.11 RAL 25.44 RAD 6568.5 VEL 12.616 PTH 2.29 VHP 10.280 DPA 4.34 RAP 14.07 ECC 1.6221
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 26 47 3304.28 -24.49 117.96 267.31 75.31 4 21 51 2704.3 -26.27 109.74
 90.00 23 26 58 4083.92 -3.70 165.50 258.98 61.91 24 35 2 3483.9 -7.43 158.80
 100.00 5 11 20 2967.20 -27.08 93.87 268.03 76.83 6 0 47 2367.2 -28.62 85.41
 100.00 0 29 1 3896.24 -1.36 150.41 257.68 60.14 1 33 58 3296.2 -5.33 143.87
 110.00 7 3 23 2616.64 -32.92 68.61 269.40 80.23 7 46 59 2016.6 -33.92 59.52
 110.00 0 53 28 3819.56 3.70 141.46 254.53 55.99 1 57 8 3219.6 -.79 135.25

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8232 TRA-1.7755 TC3 -.1108 BAU .0685 SGT 1986.5 SGR 398.7 SG3 157.4 ST 942.9 SR 379.3 SS 847.8
 RDE -.4062 RRA .0785 RC3 -.0780 FAU .02412 RRT .1967 RRF -.1892 RTF -.8927 CRT .7748 CRS .8564 CST .9895
 FDE .9093 FRA 1.4216 FC3 -.5523 BSP 6192 SGB 2026.1 R23 -.0067 R13 -.8927 LSA 1302.8 MSA 232.2 SSA 16.8
 BDE .9179 BRA 1.7773 BC3 .1355 FSP -433 SGI 1988.1 SG2 390.6 TMA 2.35 EL1 990.3 EL2 228.3 ALF 18.32

LAUNCH DATE DEC 15 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 278.196

RL 147.23 LAL .00 LOL 83.09 VL 26.126 GAL 7.70 AZL 86.81 MCA 114.46 SMA 118.48 ECC .27534 INC 3.1913 V1 30.259
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.599 GAP -15.16 AZP 91.32 TAL 158.59 TAP 273.05 RCA 85.85 APO 151.10 V2 35.117
 RC 42.392 GL 14.11 GP 1.56 ZAL 51.69 ZAP 1.98 ETS 309.52 ZAE 170.82 ETE 253.16 ZAC 109.84 ETC 165.96 CLP -1.21

PLANETOCENTRIC CONIC

C3 34.940 VHL 5.911 DLA 25.65 RAL 25.30 RAD 6568.4 VEL 12.502 PTH 2.26 VHP 9.796 DPA 5.15 RAP 15.57 ECC 1.5750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 15 55 3319.59 -24.22 119.00 265.70 74.86 4 11 15 2719.6 -26.06 110.82
 90.00 23 36 43 4028.84 -5.46 162.41 258.10 62.17 24 43 52 3428.8 -9.14 155.66
 100.00 5 2 41 2975.42 -26.95 94.45 266.47 76.55 5 52 16 2375.4 -28.53 86.00
 100.00 0 36 35 3848.24 -2.99 147.78 256.74 60.24 1 40 43 3248.2 -6.93 141.21
 110.00 6 57 25 2616.42 -32.92 68.60 267.88 80.23 7 41 1 2016.4 -33.92 59.50
 110.00 0 58 20 3780.00 2.19 139.39 253.52 55.88 2 1 20 3180.0 -2.31 133.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8277 TRA-1.7502 TC3 -.0556 BAU .0449 SGT 2046.9 SGR 388.7 SG3 172.4 ST 981.0 SR 371.8 SS 890.5
 RDE -.3830 RRA .0639 RC3 -.0783 FAU .02559 RRT .2195 RRF -.2178 RTF -.9066 CRT .7846 CRS .8637 CST .9898
 FDE .9666 FRA 1.4825 FC3 -.6341 BSP 6624 SGB 2083.4 R23 -.0120 R13 -.9067 LSA 1357.4 MSA 225.9 SSA 16.2
 BDE .9120 BRA 1.7514 BC3 .0960 FSP -478 SGI 2048.7 SG2 378.9 TMA 2.47 EL1 1025.7 EL2 220.5 ALF 17.39

LAUNCH DATE DEC 15 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 284.970

RL 147.23 LAL .00 LOL 83.09 VL 26.285 GAL 7.33 AZL 86.84 MCA 117.68 SMA 119.36 ECC .26447 INC 3.1637 V1 30.259
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.701 GAP -14.34 AZP 91.47 TAL 158.47 TAP 276.16 RCA 87.79 APO 150.93 V2 35.105
 RC 42.442 GL 14.65 GP 1.70 ZAL 51.76 ZAP 3.25 ETS 330.32 ZAE 171.66 ETE 271.66 ZAC 111.40 ETC 165.78 CLP -2.78

PLANETOCENTRIC CONIC

C3 32.345 VHL 5.687 DLA 26.16 RAL 25.12 RAD 6568.3 VEL 12.398 PTH 2.24 VHP 9.329 DPA 5.95 RAP 17.04 ECC 1.5323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 4 16 3337.06 -23.90 120.18 264.03 74.35 3 59 53 2737.1 -25.82 112.04
 90.00 23 46 54 3972.44 -7.24 159.22 257.23 62.55 24 53 6 3372.4 -10.86 152.41
 100.00 4 53 40 2984.38 -26.81 95.07 264.87 76.25 5 43 24 2384.4 -28.43 86.65
 100.00 0 44 7 3800.35 -4.60 145.14 255.79 60.43 1 47 27 3200.3 -8.51 138.53
 110.00 6 51 19 2616.24 -32.92 68.58 266.34 80.24 7 34 55 2016.2 -33.92 59.49
 110.00 1 2 57 3741.25 .71 137.37 252.49 55.82 2 5 18 3141.2 -3.78 131.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8357 TRA-1.7253 TC3 -.0243 BAU .0354 SGT 2111.8 SGR 378.7 SG3 189.0 ST 1022.9 SR 364.2 SS 936.3
 RDE -.3611 RRA .0496 RC3 -.0783 FAU .02725 RRT .2512 RRF -.2496 RTF -.9127 CRT .7961 CRS .8716 CST .9902
 FDE 1.0300 FRA 1.5487 FC3 -.7295 BSP 6848 SGB 2145.5 R23 -.0137 R13 -.9128 LSA 1416.9 MSA 218.8 SSA 16.2
 BDE .9104 BRA 1.7260 BC3 .0819 FSP -528 SGI 2114.0 SG2 366.1 TMA 2.66 EL1 1065.0 EL2 211.7 ALF 16.50

LAUNCH DATE DEC 15 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 291.741

RL 147.23 LAL .00 LOL 83.09 VL 26.432 GAL 6.80 AZL 86.87 MCA 120.90 SMA 120.20 ECC .25426 INC 3.1345 V1 30.259
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.794 GAP -13.55 AZP 91.61 TAL 158.40 TAP 279.30 RCA 89.64 APO 150.76 V2 35.092
 RC 42.671 GL 15.19 GP 1.85 ZAL 51.88 ZAP 4.75 ETS 338.94 ZAE 171.61 ETE 291.50 ZAC 112.91 ETC 165.56 CLP -4.38

PLANETOCENTRIC CONIC

C3 29.993 VHL 5.477 OLA 26.65 RAL 24.89 RAD 6568.2 VEL 12.303 PTH 2.22 VHP 8.878 DPA 6.75 RAP 18.46 ECC 1.4936
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 51 40 3357.23 -23.52 121.54 262.32 73.77 3 47 38 2757.2 -25.53 113.44
 90.00 0 1 34 3914.32 -9.05 155.91 256.37 63.05 1 6 49 3314.3 -12.59 149.02
 100.00 4 44 19 2994.07 -26.65 95.75 263.25 75.93 5 34 14 2394.1 -28.32 87.35
 100.00 0 51 36 3752.71 -6.20 142.50 254.83 60.70 1 54 9 3152.7 -10.05 135.84
 110.00 6 45 8 2616.04 -32.93 68.57 264.78 80.25 7 28 45 2016.0 -33.92 59.47
 110.00 1 7 17 3703.52 -.74 135.40 251.45 55.82 2 9 0 3103.5 -5.22 129.18

DIFFERENTIAL CORRECTIONS

TDE -.8438 TRA-1.6984 TC3 .0114 BAU .0312
 RDE -.3406 RRA .0357 RC3 -.0770 FAU .02910
 FDE 1.1002 FRA 1.6210 FC3 -.8401 BSP 7069
 BOE .9099 BRA 1.6987 BC3 .0778 FSP -584

MID-COURSE EXECUTION ACCURACY

SGT 2175.3 SGR 368.6 SG3 207.6
 RRT .2874 RRF -.2861 RTF -.9184
 SGB 2206.3 R23 -.0156 R13 -.9186
 SG1 2177.9 SG2 352.6 THA 2.86

ORBIT DETERMINATION ACCURACY

ST 1065.3 SR 356.6 SS 985.3
 CRT .8084 CRS .8799 CST .9907
 LSA 1479.2 MSA 211.4 SSA 16.1
 EL1 1105.1 EL2 202.4 ALF 15.68

LAUNCH DATE DEC 15 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 298.505

RL 147.23 LAL .00 LOL 83.09 VL 26.568 GAL 6.66 AZL 86.90 MCA 124.12 SMA 120.99 ECC .24471 INC 3.1033 V1 30.259
 RP 108.03 LAP 2.57 LOP 207.25 VP 36.880 GAP -12.78 AZP 91.74 TAL 158.37 TAP 282.48 RCA 91.38 APO 150.60 V2 35.080
 RC 43.078 GL 15.70 GP 2.03 ZAL 52.05 ZAP 6.36 ETS 343.36 ZAE 170.74 ETE 308.80 ZAC 114.37 ETC 165.32 CLP -6.02

PLANETOCENTRIC CONIC

C3 27.862 VHL 5.278 OLA 27.11 RAL 24.61 RAD 6568.1 VEL 12.216 PTH 2.20 VHP 8.444 DPA 7.55 RAP 19.83 ECC 1.4585
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 37 55 3380.96 -23.06 123.13 260.55 73.10 3 34 16 2781.0 -25.16 115.08
 90.00 0 13 9 3853.75 -10.90 152.42 255.53 63.70 1 17 23 3253.7 -14.35 145.44
 100.00 4 34 44 3004.40 -26.48 96.47 261.61 75.59 5 24 48 2404.4 -28.20 88.09
 100.00 0 59 2 3705.53 -7.76 139.87 253.87 61.04 2 0 47 3105.5 -11.56 133.15
 110.00 6 38 57 2615.67 -32.93 68.54 263.20 80.27 7 22 33 2015.7 -33.92 59.44
 110.00 1 11 18 3667.03 -2.13 133.49 250.40 55.88 2 12 25 3067.0 -6.60 127.25

DIFFERENTIAL CORRECTIONS

TDE -.8486 TRA-1.6672 TC3 .0557 BAU .0345
 RDE -.3215 RRA .0221 RC3 -.0741 FAU .03124
 FDE 1.1767 FRA 1.6988 FC3 -.9708 BSP 7346
 BOE .9075 BRA 1.6674 BC3 .0927 FSP -649

MID-COURSE EXECUTION ACCURACY

SGT 2232.9 SGR 358.6 SG3 228.2
 RRT .3273 RRF -.3271 RTF -.9241
 SGB 2231.5 R23 -.0185 R13 -.9243
 SG1 2236.0 SG2 338.4 THA 3.08

ORBIT DETERMINATION ACCURACY

ST 1104.8 SR 349.0 SS 1036.5
 CRT .8208 CRS .8885 CST .9911
 LSA 1541.1 MSA 203.9 SSA 15.9
 EL1 1142.5 EL2 192.8 ALF 14.97

LAUNCH DATE DEC 15 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 305.262

RL 147.23 LAL .00 LOL 83.09 VL 26.694 GAL 6.35 AZL 86.93 MCA 127.33 SMA 121.73 ECC .23578 INC 3.0697 V1 30.259
 RP 108.07 LAP 2.44 LOP 210.46 VP 36.958 GAP -12.04 AZP 91.86 TAL 158.37 TAP 285.70 RCA 93.03 APO 150.43 V2 35.067
 RC 43.658 GL 16.20 GP 2.24 ZAL 52.25 ZAP 8.04 ETS 345.94 ZAE 169.34 ETE 321.95 ZAC 115.76 ETC 165.04 CLP -7.72

PLANETOCENTRIC CONIC

C3 25.932 VHL 5.092 OLA 27.54 RAL 24.31 RAD 6568.0 VEL 12.137 PTH 2.18 VHP 8.024 DPA 8.35 RAP 21.14 ECC 1.4268
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 22 33 3409.84 -22.48 125.04 258.73 72.31 3 19 22 2809.8 -24.69 117.07
 90.00 0 26 5 3789.21 -12.82 148.65 254.73 64.53 1 29 14 3189.2 -16.14 141.55
 100.00 4 24 58 3015.20 -26.29 97.22 259.95 75.24 5 15 13 2415.2 -28.06 88.86
 100.00 1 6 20 3659.09 -9.28 137.26 252.90 61.46 2 7 19 3059.1 -13.02 130.47
 110.00 6 32 51 2614.97 -32.94 68.49 261.61 80.30 7 16 26 2015.0 -33.93 59.39
 110.00 1 14 56 3632.08 -3.47 131.67 249.34 55.97 2 15 28 3032.1 -7.91 125.40

DIFFERENTIAL CORRECTIONS

TDE -.8559 TRA-1.6375 TC3 .1004 BAU .0424
 RDE -.3039 RRA .0085 RC3 -.0695 FAU .03357
 FDE 1.2632 FRA 1.7864 FC3-1.1206 BSP 7542
 BOE .9082 BRA 1.6375 BC3 .1222 FSP -718

MID-COURSE EXECUTION ACCURACY

SGT 2292.5 SGR 349.3 SG3 251.3
 RRT .3742 RRF -.3747 RTF -.9291
 SGB 2318.9 R23 -.0216 R13 -.9293
 SG1 2296.2 SG2 323.4 THA 3.33

ORBIT DETERMINATION ACCURACY

ST 1147.1 SR 341.9 SS 1092.6
 CRT .8343 CRS .8976 CST .9916
 LSA 1608.7 MSA 196.1 SSA 15.8
 EL1 1183.0 EL2 182.8 ALF 12.31

LAUNCH DATE DEC 15 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 312.008

RL 147.23 LAL .00 LOL 83.09 VL 26.810 GAL 6.06 AZL 86.97 MCA 130.54 SMA 122.43 ECC .22746 INC 3.0330 V1 30.259
 RP 108.11 LAP 2.30 LOP 213.67 VP 37.030 GAP -11.33 AZP 91.97 TAL 158.41 TAP 288.95 RCA 94.58 APO 150.28 V2 35.053
 RC 44.405 GL 16.67 GP 2.48 ZAL 52.48 ZAP 9.80 ETS 347.57 ZAE 167.71 ETE 331.54 ZAC 117.07 ETC 164.72 CLP -9.48

PLANETOCENTRIC CONIC

C3 24.184 VHL 4.918 OLA 27.92 RAL 23.97 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 7.620 DPA 9.16 RAP 22.39 ECC 1.3980
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 21 3447.83 -21.67 127.53 256.83 71.32 3 1 49 2847.8 -24.02 119.65
 90.00 0 41 34 3716.83 -14.89 144.35 254.01 65.64 1 43 31 3116.8 -18.06 137.10
 100.00 4 15 10 3026.10 -26.10 97.97 258.30 74.88 5 5 36 2426.1 -27.92 89.64
 100.00 1 13 26 3613.79 -10.74 134.70 251.92 61.94 2 13 40 3013.8 -14.41 127.83
 110.00 6 26 56 2613.69 -32.95 68.59 260.03 80.35 7 10 30 2013.7 -33.93 59.29
 110.00 1 18 9 3598.97 -4.72 129.93 248.27 56.11 2 18 8 2999.0 -9.14 123.63

DIFFERENTIAL CORRECTIONS

TDE -.8618 TRA-1.6060 TC3 .1497 BAU .0525
 RDE -.2878 RRA -.0052 RC3 -.0628 FAU .03618
 FDE 1.3590 FRA 1.8830 FC3-1.2951 BSP 7733
 BOE .9086 BRA 1.6060 BC3 .1624 FSP -797

MID-COURSE EXECUTION ACCURACY

SGT 2348.3 SGR 341.0 SG3 277.2
 RRT .4272 RRF -.4288 RTF -.9338
 SGB 2372.9 R23 -.0254 R13 -.9340
 SG1 2352.9 SG2 307.7 THA 3.61

ORBIT DETERMINATION ACCURACY

ST 1188.2 SR 335.3 SS 1152.4
 CRT .8483 CRS .9071 CST .9921
 LSA 1678.3 MSA 188.2 SSA 15.5
 EL1 1222.5 EL2 172.6 ALF 13.74

LAUNCH DATE DEC 15 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 26.917 GAL 5.79 AZL 87.01 MCA 133.75 SMA 123.08 ECC .21972 INC 2.9927 V1 30.259
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.095 GAP -10.64 AZP 92.07 TAL 158.48 TAP 292.23 RCA 96.04 APO 150.13 V2 35.040
 RC 45.309 GL 17.10 GP 2.76 ZAL 52.74 ZAP 11.64 ETS 348.61 ZAE 166.02 ETE 338.65 ZAC 118.30 ETC 164.36 CLP -11.31

PLANETOCENTRIC CONIC

C3 22.600 VML 4.754 DLA 28.26 RAL 23.61 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 7.232 DPA 9.97 RAP 23.56 ECC 1.3719
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 36 48 3516.28 -20.11 131.95 254.62 69.64 2 35 24 2916.3 -22.71 124.24
 90.00 1 6 15 3615.31 -17.65 138.17 253.60 67.49 2 6 31 3015.3 -20.55 130.69
 100.00 4 5 34 3036.55 -25.91 98.69 256.65 74.55 4 56 11 2436.5 -27.78 90.39
 100.00 1 20 10 3570.28 -12.12 132.20 250.93 62.47 2 19 40 2970.3 -15.72 125.26
 110.00 6 21 22 2611.50 -32.98 68.22 258.45 80.45 7 4 53 2011.5 -33.95 59.12
 110.00 1 20 52 3568.08 -5.90 128.31 247.20 56.27 2 20 20 2968.1 -10.29 121.97

DIFFERENTIAL CORRECTIONS

TDE -.8662 TRA-1.5730 TC3 .2025 BAU .0633
 RDE -.2734 RRA -.0191 RC3 -.0536 FAU .03910
 FDE 1.4652 FRA 1.9906 FC3-1.4979 BSP 7914
 BOE .9083 BRA 1.5731 BC3 .2094 FSP -886

MID-COURSE EXECUTION ACCURACY

SGT 2400.0 SGR 334.5 SG3 306.3
 RRT .4866 RRF -.4898 RTF -.9381
 SGB 2423.2 R23 -.0303 R13 -.9383
 SG1 2405.6 SG2 291.5 THA 3.94

ORBIT DETERMINATION ACCURACY

ST 1227.6 SR 329.6 SS 1216.1
 CRT .8627 CRS .9170 CST .9926
 LSA 1749.8 MSA 180.3 SSA 15.3
 EL1 1260.7 EL2 162.3 ALF 13.27

LAUNCH DATE DEC 15 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.015 GAL 5.53 AZL 87.05 MCA 136.96 SMA 123.69 ECC .21254 INC 2.9479 V1 30.259
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.154 GAP -9.96 AZP 92.16 TAL 158.58 TAP 295.54 RCA 97.40 APO 149.98 V2 35.027
 RC 46.364 GL 17.49 GP 3.09 ZAL 53.02 ZAP 13.56 ETS 349.27 ZAE 164.40 ETE 344.15 ZAC 119.44 ETC 163.96 CLP -13.21

PLANETOCENTRIC CONIC

C3 21.164 VML 4.600 DLA 28.55 RAL 23.23 RAD 6567.9 VEL 11.939 PTH 2.12 VHP 6.858 DPA 10.79 RAP 24.64 ECC 1.3483
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.21 0 48 23 3652.47 -19.46 141.86 252.76 68.69 1 49 15 3052.5 -22.19 134.02
 93.79 1 51 41 3447.39 -19.45 126.64 252.75 68.68 2 49 9 2847.4 -22.17 119.01
 100.00 3 56 31 3045.55 -25.75 99.31 255.04 74.26 4 47 16 2445.6 -27.66 91.03
 100.00 1 26 15 3529.54 -13.39 129.85 249.93 65.03 2 25 4 2929.5 -16.91 122.82
 110.00 6 16 17 2607.98 -33.02 67.96 256.90 80.60 6 59 45 2008.0 -33.96 58.85
 110.00 1 22 57 3539.87 -6.96 126.81 246.11 56.45 2 21 57 2939.9 -11.32 120.44

DIFFERENTIAL CORRECTIONS

TDE -.8680 TRA-1.5357 TC3 .2646 BAU .0758
 RDE -.2607 RRA -.0335 RC3 -.0409 FAU .04250
 FDE 1.5808 FRA 2.1086 FC3-1.7385 BSP 8138
 BOE .9044 BRA 1.5361 BC3 .2677 FSP -989

MID-COURSE EXECUTION ACCURACY

SGT 2442.1 SGR 330.3 SG3 338.8
 RRT .5509 RRF -.5567 RTF -.9423
 SGB 2464.3 R23 -.0370 R13 -.9427
 SG1 2448.9 SG2 274.9 THA 4.32

ORBIT DETERMINATION ACCURACY

ST 1260.9 SR 325.0 SS 1282.2
 CRT .8772 CRS .9270 CST .9930
 LSA 1819.2 MSA 172.8 SSA 14.9
 EL1 1293.2 EL2 152.2 ALF 12.92

LAUNCH DATE DEC 15 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.105 GAL 5.29 AZL 87.10 MCA 140.16 SMA 124.26 ECC .20590 INC 2.8973 V1 30.259
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.207 GAP -9.31 AZP 92.23 TAL 158.70 TAP 298.86 RCA 98.67 APO 149.84 V2 35.013
 RC 47.558 GL 17.83 GP 3.49 ZAL 53.32 ZAP 15.59 ETS 349.64 ZAE 162.92 ETE 348.63 ZAC 120.46 ETC 163.51 CLP -15.21

PLANETOCENTRIC CONIC

C3 19.861 VML 4.457 DLA 28.77 RAL 22.86 RAD 6567.8 VEL 11.885 PTH 2.11 VHP 6.499 DPA 11.63 RAP 25.61 ECC 1.3269
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.68 0 34 18 3677.91 -19.98 143.74 251.42 68.86 1 35 36 3077.9 -22.68 136.07
 95.32 2 2 46 3391.58 -19.97 122.75 251.41 68.84 2 59 17 2791.6 -22.67 115.09
 100.00 3 48 32 3051.57 -25.64 99.72 253.47 74.07 4 39 23 2451.6 -27.57 91.46
 100.00 1 31 14 3493.15 -14.51 127.72 248.90 63.58 2 29 27 2893.2 -17.94 120.61
 110.00 6 11 56 2602.60 -33.08 67.55 255.37 80.84 6 55 18 2002.6 -33.99 58.43
 110.00 1 24 19 3514.88 -7.90 125.49 245.02 56.63 2 22 54 2914.9 -12.23 119.07

DIFFERENTIAL CORRECTIONS

TDE -.8664 TRA-1.5003 TC3 .3230 BAU .0860
 RDE -.2502 RRA -.0489 RC3 -.0247 FAU .04620
 FDE 1.7108 FRA 2.2437 FC3-2.0137 BSP 8269
 BOE .9018 BRA 1.5011 BC3 .3239 FSP -1100

MID-COURSE EXECUTION ACCURACY

SGT 2483.1 SGR 330.3 SG3 375.5
 RRT .6216 RRF -.6297 RTF -.9459
 SGB 2505.0 R23 -.0451 R13 -.9463
 SG1 2491.7 SG2 257.8 THA 4.78

ORBIT DETERMINATION ACCURACY

ST 1294.8 SR 322.4 SS 1354.0
 CRT .8923 CRS .9373 CST .9935
 LSA 1893.8 MSA 165.1 SSA 14.4
 EL1 1326.8 EL2 142.0 ALF 12.67

LAUNCH DATE DEC 15 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.188 GAL 5.06 AZL 87.16 MCA 143.36 SMA 124.78 ECC .19977 INC 2.8396 V1 30.259
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.255 GAP -8.68 AZP 92.28 TAL 158.85 TAP 302.21 RCA 99.86 APO 149.71 V2 35.000
 RC 48.883 GL 18.09 GP 3.97 ZAL 53.61 ZAP 17.73 ETS 349.78 ZAE 161.62 ETE 352.50 ZAC 121.35 ETC 163.00 CLP -17.30

PLANETOCENTRIC CONIC

C3 18.677 VML 4.322 DLA 28.92 RAL 22.49 RAD 6567.8 VEL 11.835 PTH 2.10 VHP 6.155 DPA 12.51 RAP 26.46 ECC 1.3074
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.87 0 26 15 3684.63 -20.43 144.42 250.11 69.08 1 27 40 3084.6 -23.10 136.71
 96.13 2 7 53 3355.81 -20.42 120.31 250.10 69.07 3 3 49 2755.8 -23.09 112.60
 100.00 3 42 24 3052.23 -25.62 99.77 251.99 74.05 4 33 16 2452.2 -27.56 91.50
 100.00 1 34 25 3463.44 -15.40 125.96 247.82 64.06 2 32 9 2863.4 -18.76 118.79
 110.00 6 8 32 2594.66 -33.16 66.94 253.88 81.19 6 51 47 1994.7 -34.02 57.81
 110.00 1 24 47 3493.77 -8.69 124.36 243.93 56.81 2 23 1 2893.8 -12.99 117.91

DIFFERENTIAL CORRECTIONS

TDE -.8632 TRA-1.4626 TC3 .3835 BAU .0958
 RDE -.2420 RRA -.0657 RC3 -.0038 FAU .05037
 FDE 1.8533 FRA 2.3950 FC3-2.3348 BSP 8389
 BOE .8965 BRA 1.4641 BC3 .3835 FSP -1227

MID-COURSE EXECUTION ACCURACY

SGT 2515.4 SGR 335.9 SG3 416.8
 RRT .6941 RRF -.7052 RTF -.9492
 SGB 2537.7 R23 -.0559 R13 -.9497
 SG1 2526.2 SG2 240.7 THA 5.34

ORBIT DETERMINATION ACCURACY

ST 1323.4 SR 322.2 SS 1429.3
 CRT .9075 CRS .9477 CST .9939
 LSA 1968.0 MSA 157.6 SSA 13.9
 EL1 1355.6 EL2 132.1 ALF 12.58

LAUNCH DATE DEC 15 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.264 GAL 4.85 AZL 87.23 MCA 146.56 SMA 125.27 ECC .19413 INC 2.7725 V1 30.259
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.298 GAP -8.07 AZP 92.31 TAL 159.01 TAP 305.58 RCA 100.95 APO 149.59 V2 34.987
 RC 50.327 GL 18.25 GP 4.55 ZAL 53.90 ZAP 20.01 ETS 349.72 ZAE 160.54 ETE 356.06 ZAC 122.09 ETC 162.42 CLP -19.50

PLANETOCENTRIC CONIC

C3 17.599 VHL 4.195 DLA 28.98 RAL 22.15 RAD 6567.7 VEL 11.789 PTH 2.08 VHP 5.826 DPA 13.44 RAP 27.16 ECC 1.2896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.59 0 22 36 3678.10 -20.81 144.09 248.83 69.37 1 23 54 3078.1 -23.43 136.35
 96.41 2 8 48 3334.54 -20.79 118.90 248.83 69.36 3 4 22 2734.5 -23.42 111.15
 100.00 3 39 9 3044.43 -25.77 99.23 250.61 74.30 4 29 54 2444.4 -27.67 90.95
 100.00 1 34 55 3443.45 -15.99 124.77 246.67 64.40 2 32 19 2843.5 -19.31 117.55
 110.00 6 6 25 2583.30 -33.28 66.08 252.44 81.69 6 49 28 1983.3 -34.07 56.93
 110.00 1 24 9 3477.34 -9.30 123.48 242.82 56.96 2 22 6 2877.3 -13.58 117.01

DIFFERENTIAL CORRECTIONS

TDE -.8528 TRA-1.4209 TC3 .4500 BAU .1060
 RDE -.2363 RRA -.0844 RC3 .0236 FAU .05518
 FDE 2.0051 FRA 2.5635 FC3-2.7145 BSP 8537
 BDE .8850 BRA 1.4234 BC3 .4506 FSP -1374

MID-COURSE EXECUTION ACCURACY

SGT 2533.8 SGR 349.1 SG3 462.9
 RRT .7639 RRF -.7786 RTF -.9523
 SGB 2557.7 R23 -.0703 R13 -.9530
 SG1 2547.9 SG2 224.1 THA 6.06

ORBIT DETERMINATION ACCURACY

ST 1341.6 SR 325.1 SS 1505.5
 CRT .9222 CRS .9577 CST .9943
 LSA 2036.9 MSA 150.5 SSA 13.3
 EL1 1374.9 EL2 122.7 ALF 12.70

LAUNCH DATE DEC 15 1968

FLIGHT TIME 136.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.333 GAL 4.66 AZL 87.31 MCA 149.76 SMA 125.72 ECC .18897 INC 2.6931 V1 30.259
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.336 GAP -7.48 AZP 92.33 TAL 159.19 TAP 308.95 RCA 101.96 APO 149.47 V2 34.974
 RC 51.881 GL 18.30 GP 5.28 ZAL 54.17 ZAP 22.43 ETS 349.46 ZAE 159.68 ETE 359.56 ZAC 122.64 ETC 161.76 CLP -21.83

PLANETOCENTRIC CONIC

C3 16.611 VHL 4.076 DLA 28.92 RAL 21.85 RAD 6567.7 VEL 11.747 PTH 2.07 VHP 5.512 DPA 14.44 RAP 27.68 ECC 1.2734
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.87 0 23 43 3657.32 -21.08 142.67 247.61 69.74 1 24 40 3057.3 -23.65 134.89
 96.13 2 5 17 3328.69 -21.07 118.58 247.60 69.72 3 0 46 2728.7 -23.64 110.80
 100.00 3 39 51 3024.95 -26.12 97.89 249.36 74.92 4 30 16 2424.9 -27.94 89.56
 100.00 1 31 50 3436.30 -16.20 124.35 245.44 64.53 2 29 6 2836.3 -19.50 117.10
 110.00 6 5 58 2567.42 -33.43 64.86 251.05 82.39 6 48 46 1967.4 -34.12 55.69
 110.00 1 22 12 3466.59 -9.70 122.90 241.71 57.06 2 19 59 2866.6 -13.97 116.41

DIFFERENTIAL CORRECTIONS

TDE -.8412 TRA-1.3811 TC3 .5070 BAU .1133
 RDE -.2341 RRA -.1066 RC3 .0583 FAU .06038
 FDE 2.1727 FRA 2.7591 FC3-3.1470 BSP 8567
 BDE .8732 BRA 1.3852 BC3 .5104 FSP -1531

MID-COURSE EXECUTION ACCURACY

SGT 2547.4 SGR 374.0 SG3 515.1
 RRT .8277 RRF -.8457 RTF -.9548
 SGB 2574.7 R23 -.0893 R13 -.9557
 SG1 2566.3 SG2 208.3 THA 6.97

ORBIT DETERMINATION ACCURACY

ST 1357.0 SR 333.1 SS 1586.9
 CRT .9367 CRS .9673 CST .9947
 LSA 2109.5 MSA 143.2 SSA 12.7
 EL1 1392.6 EL2 113.6 ALF 13.04

LAUNCH DATE DEC 15 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.396 GAL 4.48 AZL 87.40 MCA 152.95 SMA 126.13 ECC .18425 INC 2.5968 V1 30.259
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.370 GAP -6.91 AZP 92.31 TAL 159.38 TAP 312.33 RCA 102.89 APO 149.37 V2 34.961
 RC 53.536 GL 18.20 GP 6.20 ZAL 54.40 ZAP 25.04 ETS 348.98 ZAE 159.05 ETE 362.26 ZAC 122.99 ETC 161.00 CLP -24.30

PLANETOCENTRIC CONIC

C3 15.702 VHL 3.963 DLA 28.72 RAL 21.61 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 5.215 DPA 15.57 RAP 27.99 ECC 1.2584
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.02 0 32 7 3614.37 -21.24 139.57 246.44 70.21 1 32 21 3014.4 -23.75 131.77
 94.98 1 55 0 3346.00 -21.23 119.91 246.43 70.20 2 50 46 2746.0 -23.74 112.10
 100.00 3 45 14 2991.51 -26.69 95.57 248.25 76.02 4 35 6 2391.5 -28.35 87.16
 100.00 1 24 34 3444.09 -15.97 124.81 244.12 64.39 2 21 58 2844.1 -19.29 117.59
 110.00 6 7 41 2545.56 -33.61 63.18 249.70 83.37 6 50 6 1945.6 -34.16 53.98
 110.00 1 18 37 3462.80 -9.84 122.70 240.59 57.10 2 16 20 2862.8 -14.10 116.20

DIFFERENTIAL CORRECTIONS

TDE -.8201 TRA-1.3363 TC3 .5682 BAU .1213
 RDE -.2357 RRA -.1331 RC3 .1042 FAU .06637
 FDE 2.3450 FRA 2.9773 FC3-3.6592 BSP 8632
 BDE .8533 BRA 1.3429 BC3 .5777 FSP -1714

MID-COURSE EXECUTION ACCURACY

SGT 2542.2 SGR 413.7 SG3 573.1
 RRT .8794 RRF -.9010 RTF -.9572
 SGB 2575.6 R23 -.1140 R13 -.9585
 SG1 2568.2 SG2 195.0 THA 8.19

ORBIT DETERMINATION ACCURACY

ST 1357.6 SR 347.2 SS 1666.1
 CRT .9500 CRS .9760 CST .9950
 LSA 2172.7 MSA 136.2 SSA 11.9
 EL1 1397.3 EL2 105.4 ALF 13.73

LAUNCH DATE DEC 15 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.453 GAL 4.32 AZL 87.52 MCA 156.15 SMA 126.50 ECC .17997 INC 2.4772 V1 30.259
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.399 GAP -6.35 AZP 92.27 TAL 159.57 TAP 315.71 RCA 103.74 APO 149.27 V2 34.948
 RC 55.282 GL 17.88 GP 7.38 ZAL 54.59 ZAP 27.85 ETS 348.26 ZAE 158.62 ETE 7.45 ZAC 123.06 ETC 160.11 CLP -26.93

PLANETOCENTRIC CONIC

C3 14.855 VHL 3.854 DLA 28.32 RAL 21.48 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 4.935 DPA 16.88 RAP 28.05 ECC 1.2445
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 89.78 1 11 17 3473.33 -21.24 129.24 245.34 70.82 2 9 11 2873.3 -23.66 121.41
 90.22 1 14 45 3462.13 -21.23 128.42 245.33 70.80 2 12 27 2862.1 -23.65 120.58
 100.00 3 55 41 2943.02 -27.44 92.17 247.26 77.66 4 44 44 2343.0 -28.87 83.65
 100.00 1 13 2 3467.66 -15.27 126.21 242.72 63.99 2 10 50 2867.7 -18.65 119.05
 110.00 6 12 11 2515.76 -33.82 60.88 248.41 84.72 6 54 7 1915.8 -34.18 51.65
 110.00 1 13 2 3467.70 -9.65 122.96 239.47 57.05 2 10 49 2867.7 -13.93 116.47

DIFFERENTIAL CORRECTIONS

TDE -.7862 TRA-1.2845 TC3 .6368 BAU .1307
 RDE -.2419 RRA -.1660 RC3 .1668 FAU .07334
 FDE 2.5104 FRA 3.2168 FC3-4.2744 BSP 8770
 BDE .8226 BRA 1.2952 BC3 .6583 FSP -1934

MID-COURSE EXECUTION ACCURACY

SGT 2512.4 SGR 473.8 SG3 636.6
 RRT .9170 RRF -.9421 RTF -.9595
 SGB 2556.7 R23 -.1437 R13 -.9614
 SG1 2549.9 SG2 186.2 THA 9.87

ORBIT DETERMINATION ACCURACY

ST 1337.8 SR 369.4 SS 1736.9
 CRT .9815 CRS .9834 CST .9953
 LSA 2219.5 MSA 129.2 SSA 11.0
 EL1 1384.4 EL2 98.1 ALF 14.95

LAUNCH DATE DEC 15 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 372.010

RL 147.23 LAL .00 LOL 83.09 VL 27.504 GAL 4.17 AZL 87.68 HCA 159.33 SMA 126.84 ECC .17608 INC 2.3230 V1 30.259
 RP 108.47 LAP .82 LOP 242.44 VP 37.425 GAP -5.81 AZP 92.17 TAL 159.76 TAP 319.10 RCA 104.51 APO 149.18 V2 34.936
 RC 57.109 GL 17.25 GP 8.96 ZAL 54.70 ZAP 30.94 ETS 347.23 ZAE 158.34 ETE 12.56 ZAC 122.80 ETC 159.05 CLP -29.74

PLANETOCENTRIC CONIC

C3 14.054 VHL 3.749 DLA 27.64 RAL 21.48 RAD 6567.6 VEL 11.638 PTH 2.04 VHP 4.675 OPA 18.48 RAP 27.76 ECC 1.2313
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 7 17 3278.84 -24.91 116.22 245.54 76.09 3 1 56 2678.8 -26.58 107.95
 90.00 0 18 47 3632.03 -17.21 139.20 242.80 67.16 1 19 19 3032.0 -20.16 131.76
 100.00 4 11 30 2878.39 -28.30 87.55 246.34 79.94 4 59 28 2278.4 -29.40 78.92
 100.00 0 57 15 3507.71 -14.07 128.57 241.29 63.35 1 55 42 2907.7 -17.53 121.49
 110.00 6 20 22 2475.09 -34.03 57.72 247.13 86.57 7 1 37 1875.1 -34.13 48.48
 110.00 1 4 52 3483.77 -9.06 123.83 238.36 56.90 2 2 56 2883.8 -13.35 117.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.7139 TRA-1.2018 TC3 .7818 BAU .1550
 RDE -2.507 RRA -2.055 RC3 .2633 FAU .08333
 FDE 2.6079 FRA 3.4321 FC3-5.1332 BSP 9567
 BDE .7567 BRA 1.2192 BC3 .8250 FSP -2280

SGT 2415.2 SGR 558.1 SG3 700.7
 RRT .9414 RRF -.9692 RTF -.9641
 SGB 2478.8 R23 -.1669 R13 -.9669
 SG1 2472.0 SG2 183.9 THA 12.34

ST 1256.1 SR 397.6 SS 1763.4
 CRT .9696 CRS .9889 CST .9950
 LSA 2197.7 MSA 123.6 SSA 9.5
 EL1 1314.3 EL2 93.0 ALF 17.15

LAUNCH DATE DEC 15 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 378.588

RL 147.23 LAL .00 LOL 83.09 VL 27.550 GAL 4.04 AZL 87.88 HCA 162.52 SMA 127.15 ECC .17261 INC 2.1158 V1 30.259
 RP 108.51 LAP .64 LOP 245.62 VP 37.448 GAP -5.29 AZP 92.02 TAL 159.94 TAP 322.46 RCA 105.20 APO 149.10 V2 34.923
 RC 59.010 GL 16.16 GP 11.12 ZAL 54.69 ZAP 34.37 ETS 345.79 ZAE 158.03 ETE 19.12 ZAC 122.09 ETC 157.73 CLP -32.73

PLANETOCENTRIC CONIC

C3 13.286 VHL 3.645 DLA 26.55 RAL 21.72 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 4.441 OPA 20.54 RAP 27.04 ECC 1.2187
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 41 44 3155.64 -26.65 107.62 245.06 80.06 3 34 19 2555.6 -27.75 99.12
 90.00 23 42 19 3730.70 -14.50 145.18 241.03 65.41 24 44 30 3130.7 -17.70 137.96
 100.00 4 33 35 2795.03 -29.14 81.50 245.48 83.02 5 20 10 2195.0 -29.80 72.76
 100.00 0 37 5 3566.53 -12.24 131.99 239.90 62.52 1 36 31 2966.5 -15.83 125.03
 110.00 6 33 40 2419.28 -34.17 53.37 245.88 89.15 7 13 59 1819.3 -33.91 44.14
 110.00 0 53 29 3515.03 -7.89 125.50 237.30 56.63 1 52 4 2915.1 -12.23 119.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7258 TRA-1.2122 TC3 .6327 BAU .1290
 RDE -.2819 RRA -.2768 RC3 .3562 FAU .08570
 FDE 2.8534 FRA 3.8712 FC3-5.5842 BSP 7984
 BDE .7786 BRA 1.2434 BC3 .7261 FSP -2280

SGT 2459.9 SGR 707.4 SG3 787.0
 RRT .9548 RRF -.9861 RTF -.9588
 SGB 2559.6 R23 -.2164 R13 -.9638
 SG1 2551.6 SG2 202.8 THA 15.45

ST 1307.7 SR 466.5 SS 1891.4
 CRT .9815 CRS .9941 CST .9964
 LSA 2343.7 MSA 109.8 SSA 9.8
 EL1 1385.9 EL2 84.2 ALF 19.37

LAUNCH DATE DEC 15 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 385.136

RL 147.23 LAL .00 LOL 83.09 VL 27.591 GAL 3.92 AZL 88.18 HCA 165.71 SMA 127.43 ECC .16949 INC 1.8191 V1 30.259
 RP 108.55 LAP .45 LOP 248.80 VP 37.467 GAP -4.77 AZP 91.76 TAL 160.11 TAP 325.82 RCA 105.83 APO 149.03 V2 34.911
 RC 60.976 GL 14.30 GP 14.24 ZAL 54.54 ZAP 38.29 ETS 343.76 ZAE 157.35 ETE 27.89 ZAC 120.74 ETC 156.04 CLP -35.93

PLANETOCENTRIC CONIC

C3 12.519 VHL 3.538 DLA 24.75 RAL 22.29 RAD 6567.5 VEL 11.572 PTH 2.02 VHP 4.241 OPA 23.39 RAP 25.68 ECC 1.2060
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 20 41 3018.34 -27.88 97.76 244.39 84.85 4 10 59 2418.3 -28.30 89.12
 90.00 23 7 56 3842.42 -11.24 151.76 239.46 63.84 24 11 59 3242.4 -14.67 144.76
 100.00 5 3 58 2685.30 -29.78 73.41 244.54 87.23 5 48 44 2085.3 -29.84 64.60
 100.00 0 11 16 3650.70 -9.55 136.79 238.58 61.54 1 12 6 3050.7 -13.28 129.98
 110.00 6 54 22 2339.91 -34.08 47.17 244.54 92.81 7 33 22 1739.9 -33.32 38.02
 110.00 0 37 21 3568.85 -5.87 128.35 236.33 56.26 1 36 50 2968.9 -10.26 122.01

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6508 TRA-1.1487 TC3 .6791 BAU .1448
 RDE -.3136 RRA -.3680 RC3 .5357 FAU .09383
 FDE 2.8737 FRA 4.1979 FC3-6.4886 BSP 8163
 BDE .7225 BRA 1.2062 BC3 .8650 FSP -2545

SGT 2353.1 SGR 912.2 SG3 858.7
 RRT .9603 RRF -.9944 RTF -.9597
 SGB 2523.7 R23 -.2267 R13 -.9684
 SG1 2512.4 SG2 238.3 THA 20.61

ST 1220.0 SR 544.8 SS 1894.0
 CRT .9875 CRS .9968 CST .9968
 LSA 2315.8 MSA 97.7 SSA 9.0
 EL1 1333.8 EL2 78.6 ALF 23.88

LAUNCH DATE DEC 15 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 391.664

RL 147.23 LAL .00 LOL 83.09 VL 27.628 GAL 3.82 AZL 88.64 HCA 168.89 SMA 127.68 ECC .16673 INC 1.3585 V1 30.259
 RP 108.58 LAP .26 LOP 251.98 VP 37.483 GAP -4.28 AZP 91.33 TAL 160.27 TAP 329.16 RCA 106.39 APO 148.96 V2 34.900
 RC 63.000 GL 11.00 GP 19.05 ZAL 54.17 ZAP 43.00 ETS 340.83 ZAE 155.44 ETE 39.50 ZAC 118.33 ETC 153.78 CLP -39.31

PLANETOCENTRIC CONIC

C3 11.738 VHL 3.426 DLA 21.62 RAL 23.47 RAD 6567.4 VEL 11.538 PTH 2.01 VHP 4.101 OPA 27.68 RAP 23.27 ECC 1.1932
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 6 2843.31 -28.29 84.99 243.53 91.23 4 58 30 2243.3 -27.82 76.35
 90.00 22 26 54 3990.23 -6.68 160.23 238.26 62.42 23 33 24 3390.2 -10.32 153.44
 100.00 5 47 28 2532.59 -29.74 62.07 243.47 93.19 6 29 41 1932.6 -28.98 53.34
 100.00 23 33 13 3776.19 -5.41 143.80 237.57 60.56 24 36 9 3176.2 -9.29 137.17
 110.00 7 27 10 2220.67 -33.30 37.96 243.05 98.21 8 4 11 1620.7 -31.81 29.05
 110.00 0 13 56 3660.87 -2.37 133.17 235.68 55.89 1 14 57 3060.9 -6.83 126.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5615 TRA-1.0876 TC3 .6968 BAU .1692
 RDE -.3553 RRA -.5155 RC3 .8226 FAU .10033
 FDE 2.7050 FRA 4.5178 FC3-7.3992 BSP 8360
 BDE .6645 BRA 1.2035 BC3 1.0781 FSP -2763

SGT 2221.9 SGR 1237.1 SG3 915.2
 RRT .9608 RRF -.9982 RTF -.9588
 SGB 2543.1 R23 -.2146 R13 -.9748
 SG1 2525.2 SG2 301.9 THA 28.59

ST 1107.4 SR 656.3 SS 1821.5
 CRT .9926 CRS .9984 CST .9978
 LSA 2229.1 MSA 77.5 SSA 9.0
 EL1 1285.5 EL2 68.5 ALF 30.56

LAUNCH DATE DEC 15 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.660 GAL 3.73 AZL 89.47 MCA 172.07 SMA 127.90 ECC .16430 INC .5352 V1 30.259
 RP 108.62 LAP .07 LOP 255.15 VP 37.497 GAP -3.79 AZP 90.53 TAL 160.40 TAP 332.47 RCA 106.88 APO 148.91 V2 34.889
 RC 65.076 GL 4.45 GP 27.13 ZAL 53.66 ZAP 49.24 ETS 336.47 ZAE 150.32 ETE 53.53 ZAC 113.98 ETC 150.67 CLP -42.81

PLANETOCENTRIC CONIC

C3 10.991 VHL 3.315 DLA 15.47 RAL 25.85 RAD 6567.4 VEL 11.506 PTH 2.00 VHP 4.100 DPA 34.82 RAP 18.81 ECC 1.1809
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 11 2583.85 -26.48 66.26 242.54 100.41 6 9 15 1983.9 -24.77 58.01
 90.00 21 30 51 4222.43 .76 173.23 238.18 61.69 22 41 14 3622.4 -3.03 166.60
 100.00 6 56 1 2294.17 -27.56 44.71 242.30 102.05 7 34 15 1694.2 -25.62 36.45
 100.00 22 43 43 3987.34 1.73 155.41 237.65 60.15 23 50 10 3387.3 -2.26 148.89
 110.00 8 23 8 2021.56 -30.38 23.19 241.48 106.48 8 56 50 1421.6 -27.83 14.93
 110.00 23 33 5 3832.72 4.20 142.15 236.11 56.04 24 36 57 3232.7 -.29 135.93

DIFFERENTIAL CORRECTIONS

TDE -.4512 TRA-1.0321 TC3 .6753 BAU .2165
 RDE -.3891 RRA -.7832 RC3 1.3099 FAU .10046
 FDE 2.1405 FRA 4.7009 FC3-7.9127 BSP 8929
 BDE .5958 BRA 1.2956 BC3 1.4737 FSP -2805

MID-COURSE EXECUTION ACCURACY

SGT 2057.7 SGR 1783.0 SG3 915.5
 RRT .9574 RRF -.9995 RTF -.9556
 SGB 2722.7 R23 -.1716 R13 -.9847
 SG1 2694.2 SG2 393.1 THA 40.73

ORBIT DETERMINATION ACCURACY

ST 957.3 SR 794.0 SS 1588.5
 CRT .9981 CRS .9992 CST .9996
 LSA 2017.1 MSA 37.9 SSA 14.0
 EL1 1243.2 EL2 37.9 ALF 39.66

LAUNCH DATE DEC 15 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.689 GAL 3.66 AZL 91.38 MCA 175.24 SMA 128.09 ECC .16220 INC 1.3754 V1 30.259
 RP 108.65 LAP -.11 LOP 258.33 VP 37.508 GAP -3.32 AZP 88.63 TAL 160.51 TAP 335.75 RCA 107.31 APO 148.87 V2 34.878
 RC 67.198 GL -11.51 GP 42.51 ZAL 54.61 ZAP 59.14 ETS 329.98 ZAE 137.36 ETE 67.10 ZAC 105.33 ETC 146.55 CLP -45.90

PLANETOCENTRIC CONIC

C3 11.108 VHL 3.333 DLA .44 RAL 31.31 RAD 6567.4 VEL 11.511 PTH 2.00 VHP 4.605 DPA 48.13 RAP 8.44 ECC 1.1828
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 47 58 2097.06 -16.55 34.18 243.96 113.31 8 22 55 1497.1 -13.26 27.05
 90.00 19 52 34 4713.55 15.81 201.45 243.82 66.20 21 11 8 4113.6 12.45 194.38
 100.00 9 9 30 1834.01 -17.40 14.44 243.57 114.70 9 40 4 1234.0 -13.92 7.37
 100.00 21 13 43 4451.83 16.65 181.81 243.42 64.81 22 27 54 3851.8 13.12 174.80
 110.00 10 18 14 1618.91 -19.65 356.92 242.38 118.55 10 45 12 1018.9 -15.69 350.04
 110.00 22 21 29 4239.69 18.89 164.90 242.22 60.97 23 32 9 3639.7 14.88 157.68

DIFFERENTIAL CORRECTIONS

TDE -.3264 TRA-1.0123 TC3 .5440 BAU .3055
 RDE -.3043 RRA-1.3647 RC3 1.9837 FAU .07916
 FDE .8963 FRA 4.2559 FC3-6.1701 BSP 10443
 BDE .4463 BRA 1.6992 BC3 2.0569 FSP -2246

MID-COURSE EXECUTION ACCURACY

SGT 1864.2 SGR 2743.4 SG3 737.3
 RRT .9495 RRF -.9999 RTF -.9485
 SGB 3316.9 R23 -.1018 R13 -.9948
 SG1 3280.6 SG2 489.1 THA 56.32

ORBIT DETERMINATION ACCURACY

ST 766.6 SR 877.8 SS 1068.3
 CRT .9830 CRS .9996 CST .9777
 LSA 1575.1 MSA 135.5 SSA 2.3
 EL1 1160.6 EL2 106.6 ALF 48.94

LAUNCH DATE DEC 15 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.713 GAL 3.60 AZL 100.77 MCA 178.38 SMA 128.26 ECC .16044 INC10.7714 V1 30.259
 RP 108.68 LAP -.30 LOP 261.50 VP 37.516 GAP -2.87 AZP 79.23 TAL 160.56 TAP 338.95 RCA 107.68 APO 148.84 V2 34.867
 RC 69.360 GL -54.94 GP 74.57 ZAL 72.45 ZAP 77.48 ETS 316.29 ZAE 105.78 ETE 68.66 ZAC 87.86 ETC 137.78 CLP -35.44

PLANETOCENTRIC CONIC

C3 39.878 VHL 6.315 DLA -40.94 RAL 46.33 RAD 6568.5 VEL 12.698 PTH 2.31 VHP 9.501 DPA 71.16 RAP 317.97 ECC 1.6563
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.10 11 24 18 1704.51 21.16 27.43 289.81 125.90 11 52 42 1104.5 25.69 20.66
 120.90 18 16 4 5710.71 21.17 267.48 289.82 125.89 19 51 15 5110.7 25.71 260.71
 59.10 11 24 18 1704.51 21.16 27.43 289.81 125.90 11 52 42 1104.5 25.69 20.66
 120.90 18 16 4 5710.71 21.17 267.48 289.82 125.89 19 51 15 5110.7 25.71 260.71
 59.10 11 24 18 1704.51 21.16 27.43 289.81 125.90 11 52 42 1104.5 25.69 20.66
 120.90 18 16 4 5710.71 21.17 267.48 289.82 125.89 19 51 15 5110.7 25.71 260.71

DIFFERENTIAL CORRECTIONS

TDE -.3352 TRA-1.6622 TC3 .1165 BAU .3220
 RDE .5662 RRA-3.1289 RC3 .5926 FAU .01618
 FDE -.2740 FRA 2.0275 FC3 -.3513 BSP 14125
 BDE .6684 BRA 3.5430 BC3 .6040 FSP -710

MID-COURSE EXECUTION ACCURACY

SGT 2027.7 SGR 3866.1 SG3 214.9
 RRT .9500 RRF -.9993 RTF -.9609
 SGB 4365.6 R23 -.0295 R13 -.9996
 SG1 4328.8 SG2 565.4 THA 63.02

ORBIT DETERMINATION ACCURACY

ST 680.2 SR 1239.1 SS 633.6
 CRT .6048 CRS .9950 CST .6810
 LSA 1462.7 MSA 509.8 SSA .3
 EL1 1318.7 EL2 508.9 ALF 68.23

LAUNCH DATE DEC 15 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.734 GAL 3.53 AZL 72.81 MCA 181.65 SMA 128.41 ECC .15879 INC17.1856 V1 30.259
 RP 108.72 LAP -.49 LOP 264.67 VP 37.523 GAP -2.39 AZP 107.18 TAL 160.72 TAP 342.37 RCA 108.02 APO 148.79 V2 34.858
 RC 71.560 GL 62.56 GP -75.43 ZAL 78.28 ZAP 79.18 ETS 60.08 ZAE 100.94 ETE 308.88 ZAC 114.70 ETC 236.69 CLP -41.68

PLANETOCENTRIC CONIC

C3 84.964 VHL 9.218 DLA 61.00 RAL 333.84 RAD 6569.7 VEL 14.364 PTH 2.61 VHP 9.254 DPA -55.12 RAP 77.07 ECC 2.3983
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.41 17 9 23 4730.69 -18.22 231.80 233.33 30.69 18 28 14 4130.7 -25.05 227.72
 146.59 2 52 39 3051.66 -18.21 93.57 233.32 30.69 3 43 30 2451.7 -25.04 89.50
 33.41 17 9 23 4730.69 -18.22 231.80 233.33 30.69 18 28 14 4130.7 -25.05 227.72
 146.59 2 52 39 3051.66 -18.21 93.57 233.32 30.69 3 43 30 2451.7 -25.04 89.50
 33.41 17 9 23 4730.69 -18.22 231.80 233.33 30.69 18 28 14 4130.7 -25.05 227.72
 146.59 2 52 39 3051.66 -18.21 93.57 233.32 30.69 3 43 30 2451.7 -25.04 89.50

DIFFERENTIAL CORRECTIONS

TDE-4.7832 TRA -.3142 TC3 -.0232 BAU .0965
 RDE 5.4546 RRA -.3154 RC3 -.0817 FAU .00386
 FDE 4.1492 FRA -.0378 FC3 -.0393 BSP 12234
 BDE 7.2548 BRA .4452 BC3 .0849 FSP -627

MID-COURSE EXECUTION ACCURACY

SGT 3000.6 SGR 3417.9 SG3 223.0
 RRT -.9664 RRF .9949 RTF -.9874
 SGB 4548.2 R23 -.0119 R13 .9999
 SG1 4510.5 SG2 584.5 THA 131.15

ORBIT DETERMINATION ACCURACY

ST 2975.6 SR 3392.7 SS 2062.2
 CRT -.9971 CRS -.9995 CST .9989
 LSA 4958.6 MSA 171.0 SSA .7
 EL1 4509.5 EL2 170.9 ALF 131.24

LAUNCH DATE DEC 15 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.752 GAL 3.50 AZL 81.91 HCA 184.80 SMA 128.53 ECC .15759 INC 8.0871 V1 30.259
 RP 108.74 LAP -.67 LOP 267.84 VP 37.527 GAP -1.96 AZP 98.06 TAL 160.70 TAP 345.50 RCA 108.27 APO 148.78 V2 34.848
 RC 73.792 GL 48.98 GP -46.72 ZAL 68.90 ZAP 70.10 ETS 26.03 ZAE 130.75 ETE 285.44 ZAC 122.23 ETC 197.65 CLP -60.23

PLANETOCENTRIC CONIC

C3 26.674 VHL 5.165 DLA 53.92 RAL 356.80 RAD 6568.1 VEL 12.168 PTH 2.18 VHP 4.250 DPA -34.34 RAP 46.85 ECC 1.4390
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.99 19 3 55 4400.49 -31.54 211.39 240.25 43.71 20 17 15 3800.5 -37.13 204.88
 138.01 4 1 19 2812.55 -31.52 84.27 240.23 43.70 4 48 12 2212.5 -37.12 77.77
 41.99 19 3 55 4400.49 -31.54 211.39 240.25 43.71 20 17 15 3800.5 -37.13 204.88
 138.01 4 1 19 2812.55 -31.52 84.27 240.23 43.70 4 48 12 2212.5 -37.12 77.77
 41.99 19 3 55 4400.49 -31.54 211.39 240.25 43.71 20 17 15 3800.5 -37.13 204.88
 138.01 4 1 19 2812.55 -31.52 84.27 240.23 43.70 4 48 12 2212.5 -37.12 77.77

DIFFERENTIAL CORRECTIONS

TDE -.7647 TRA -.5109 TC3 .0574 BAU .2923
 RDE 2.7340 RRA .5738 RC3 -.8176 FAU .07796
 FDE 8.0353 FRA 1.8883 FC3-2.5303 BSP 11156
 BDE 2.8389 BRA .7683 BC3 .8196 FSP -2693

MID-COURSE EXECUTION ACCURACY

SGT 1284.2 SGR 3328.8 SG3 859.4
 RRT -.8569 RRF .9993 RTF -.8720
 SGB 3567.9 R23 -.0306 R13 .9993
 SG1 3512.3 SG2 627.5 THA 108.92

ORBIT DETERMINATION ACCURACY

ST 896.1 SR 3050.4 SS 3296.9
 CRT -.9755 CRS -.9999 CST .9782
 LSA 4576.2 MSA 189.6 SSA 1.8
 EL1 3173.7 EL2 189.3 ALF 106.05

LAUNCH DATE DEC 15 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.767 GAL 3.48 AZL 83.80 HCA 187.96 SMA 128.63 ECC .15662 INC 6.1986 V1 30.259
 RP 108.77 LAP -.86 LOP 271.01 VP 37.530 GAP -1.53 AZP 96.14 TAL 160.68 TAP 348.64 RCA 108.48 APO 148.77 V2 34.839
 RC 76.053 GL 42.40 GP -33.03 ZAL 65.37 ZAP 70.29 ETS 16.06 ZAE 145.06 ETE 281.15 ZAC 122.16 ETC 186.18 CLP -66.28

PLANETOCENTRIC CONIC

C3 19.696 VHL 4.438 DLA 48.95 RAL 3.85 RAD 6567.8 VEL 11.878 PTH 2.11 VHP 3.427 DPA -23.09 RAP 37.60 ECC 1.3241
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.25 19 51 27 4282.08 -32.45 199.96 240.24 51.10 21 2 49 3682.1 -37.23 192.56
 131.75 4 10 1 2783.44 -32.43 82.21 240.23 51.09 4 56 24 2183.4 -37.22 74.81
 48.25 19 51 27 4282.08 -32.45 199.96 240.24 51.10 21 2 49 3682.1 -37.23 192.56
 131.75 4 10 1 2783.44 -32.43 82.21 240.23 51.09 4 56 24 2183.4 -37.22 74.81
 48.25 19 51 27 4282.08 -32.45 199.96 240.24 51.10 21 2 49 3682.1 -37.23 192.56
 131.75 4 10 1 2783.44 -32.43 82.21 240.23 51.09 4 56 24 2183.4 -37.22 74.81

DIFFERENTIAL CORRECTIONS

TDE -.2770 TRA -.4154 TC3 -.0635 BAU .2426
 RDE 1.6956 RRA .5864 RC3 -.9189 FAU .12574
 FDE 9.5203 FRA 3.6053 FC3-5.5270 BSP 8661
 BDE 1.7181 BRA .7186 BC3 .9211 FSP -4061

MID-COURSE EXECUTION ACCURACY

SGT 893.2 SGR 2604.9 SG3 1297.0
 RRT -.7212 RRF .9992 RTF -.7388
 SGB 2753.8 R23 -.0320 R13 .9991
 SG1 2687.7 SG2 599.7 THA 104.63

ORBIT DETERMINATION ACCURACY

ST 433.5 SR 2216.3 SS 3694.1
 CRT -.9030 CRS -.9999 CST .9092
 LSA 4325.8 MSA 183.4 SSA 2.4
 EL1 2250.8 EL2 183.4 ALF 100.08

LAUNCH DATE DEC 15 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.779 GAL 3.47 AZL 84.62 HCA 191.13 SMA 128.71 ECC .15589 INC 5.3807 V1 30.259
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.531 GAP -1.11 AZP 95.28 TAL 160.62 TAP 351.75 RCA 108.65 APO 148.78 V2 34.831
 RC 78.340 GL 38.81 GP -25.53 ZAL 63.57 ZAP 73.76 ETS 10.25 ZAE 153.11 ETE 274.48 ZAC 120.07 ETC 180.07 CLP -71.95

PLANETOCENTRIC CONIC

C3 17.211 VHL 4.149 DLA 46.07 RAL 7.07 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 3.111 DPA -17.22 RAP 32.11 ECC 1.2832
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.00 20 17 23 4217.91 -32.07 193.43 239.95 54.96 21 27 41 3617.9 -36.41 185.71
 128.00 4 9 47 2784.42 -32.06 81.98 239.94 54.95 4 56 11 2184.4 -36.40 74.26
 52.00 20 17 23 4217.91 -32.07 193.43 239.95 54.96 21 27 41 3617.9 -36.41 185.71
 128.00 4 9 47 2784.42 -32.06 81.98 239.94 54.95 4 56 11 2184.4 -36.40 74.26
 52.00 20 17 23 4217.91 -32.07 193.43 239.95 54.96 21 27 41 3617.9 -36.41 185.71
 128.00 4 9 47 2784.42 -32.06 81.98 239.94 54.95 4 56 11 2184.4 -36.40 74.26

DIFFERENTIAL CORRECTIONS

TDE .0143 TRA -.2932 TC3 -.2552 BAU .2063
 RDE 1.2439 RRA .5267 RC3 -.8593 FAU .15370
 FDE10.1252 FRA 4.7690 FC3-7.7313 BSP 6825
 BDE 1.2440 BRA .6028 BC3 .8964 FSP -4878

MID-COURSE EXECUTION ACCURACY

SGT 621.2 SGR 2135.2 SG3 1562.0
 RRT -.3220 RRF .9987 RTF -.3479
 SGB 2223.7 R23 .0002 R13 .9991
 SG1 2145.3 SG2 585.3 THA 95.78

ORBIT DETERMINATION ACCURACY

ST 176.3 SR 1746.6 SS 3836.1
 CRT -.0683 CRS -.9998 CST .0880
 LSA 4215.0 MSA 178.5 SSA 3.1
 EL1 1746.7 EL2 175.9 ALF 90.40

LAUNCH DATE DEC 15 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

RL 147.23 LAL .00 LOL 83.09 VL 27.788 GAL 3.47 AZL 85.08 HCA 194.30 SMA 128.77 ECC .15540 INC 4.9225 V1 30.259
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.530 GAP -.70 AZP 94.77 TAL 160.52 TAP 354.82 RCA 108.76 APO 148.79 V2 34.824
 RC 80.651 GL 36.55 GP -20.84 ZAL 62.44 ZAP 78.48 ETS 6.48 ZAE 157.87 ETE 264.07 ZAC 117.41 ETC 176.36 CLP -77.67

PLANETOCENTRIC CONIC

C3 15.971 VHL 3.996 DLA 44.24 RAL 8.99 RAD 6567.6 VEL 11.720 PTH 2.06 VHP 2.946 DPA -13.93 RAP 27.86 ECC 1.2628
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.47 20 34 20 4176.65 -31.60 189.24 239.84 57.26 21 43 56 3576.6 -35.66 181.38
 125.53 4 8 8 2791.43 -31.58 82.24 239.83 57.24 4 54 40 2191.4 -35.65 74.38
 54.47 20 34 20 4176.65 -31.60 189.24 239.84 57.26 21 43 56 3576.6 -35.66 181.38
 125.53 4 8 8 2791.43 -31.58 82.24 239.83 57.24 4 54 40 2191.4 -35.65 74.38
 54.47 20 34 20 4176.65 -31.60 189.24 239.84 57.26 21 43 56 3576.6 -35.66 181.38
 125.53 4 8 8 2791.43 -31.58 82.24 239.83 57.24 4 54 40 2191.4 -35.65 74.38

DIFFERENTIAL CORRECTIONS

TDE .2620 TRA -.1547 TC3 -.4859 BAU .1958
 RDE .9924 RRA .4644 RC3 -.7777 FAU .17260
 FDE10.3591 FRA 5.5470 FC3-9.3562 BSP 5636
 BDE 1.0264 BRA .4895 BC3 .9170 FSP -5466

MID-COURSE EXECUTION ACCURACY

SGT 622.7 SGR 1809.5 SG3 1727.4
 RRT .4332 RRF .9977 RTF .4053
 SGB 1913.6 R23 .0794 R13 .9950
 SG1 1831.5 SG2 554.5 THA 80.66

ORBIT DETERMINATION ACCURACY

ST 387.1 SR 1449.9 SS 3874.6
 CRT .9064 CRS -.9996 CST -.8947
 LSA 4151.4 MSA 175.1 SSA 3.9
 EL1 1492.2 EL2 158.9 ALF 76.24

LAUNCH DATE DEC 15 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 449.470

RL 147.23 LAL .00 LOL 83.09 VL 27.794 GAL 3.49 AZL 85.37 MCA 197.46 SMA 128.82 ECC .15515 INC 4.6278 V1 30.259
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.529 GAP -.29 AZP 94.42 TAL 160.38 TAP 357.84 RCA 108.83 APO 148.80 V2 34.816
 RC 82.981 GL 34.97 GP -17.59 ZAL 61.60 ZAP 83.75 ETS 3.84 ZAE 160.26 ETE 250.36 ZAC 114.58 ETC 173.89 CLP -83.44

PLANETOCENTRIC CONIC

C3 15.255 VHL 3.906 DLA 42.97 RAL 10.35 RAD 6567.6 VEL 11.689 PTH 2.06 VHP 2.853 DPA -12.01 RAP 24.18 ECC 1.2511
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.21 20 46 43 4147.77 -31.16 186.33 239.90 58.76 21 55 51 3547.8 -35.04 178.39
 123.79 4 6 38 2799.59 -31.14 82.66 239.90 58.75 4 53 18 2199.6 -35.03 74.72
 56.21 20 46 43 4147.77 -31.16 186.33 239.90 58.76 21 55 51 3547.8 -35.04 178.39
 123.79 4 6 38 2799.59 -31.14 82.66 239.90 58.75 4 53 18 2199.6 -35.03 74.72
 56.21 20 46 43 4147.77 -31.16 186.33 239.90 58.76 21 55 51 3547.8 -35.04 178.39
 123.79 4 6 38 2799.59 -31.14 82.66 239.90 58.75 4 53 18 2199.6 -35.03 74.72

DIFFERENTIAL CORRECTIONS

TDE .4935 TRA -.0057 TC3 -.7460 BAU .2074
 RDE .8310 RRA .4099 RC3 -.6914 FAU .18472
 FDE10.3852 FRA 6.0809 FC-10.4826 BSP 5031
 BDE .9665 BRA .4100 BC3 1.0172 FSP -5865

MID-COURSE EXECUTION ACCURACY

SGT 929.5 SGR 1566.3 SG3 1828.3
 RRT .8160 RRF .9961 RTF .7963
 SGB 1821.3 R23 .1717 R13 .9816
 SG1 1757.2 SG2 478.9 THA 61.89

ORBIT DETERMINATION ACCURACY

ST 724.2 SR 1243.9 SS 3862.9
 CRT .9791 CRS -.9993 CST -.9712
 LSA 4118.7 MSA 172.9 SSA 4.7
 EL1 1433.7 EL2 127.6 ALF 60.05

LAUNCH DATE DEC 15 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 455.783

RL 147.23 LAL .00 LOL 83.09 VL 27.798 GAL 3.52 AZL 85.58 MCA 200.63 SMA 128.85 ECC .15511 INC 4.4212 V1 30.259
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.526 GAP .11 AZP 94.14 TAL 160.19 TAP .82 RCA 108.86 APO 148.83 V2 34.810
 RC 85.328 GL 33.76 GP -15.17 ZAL 60.90 ZAP 89.24 ETS 1.89 ZAE 160.66 ETE 235.50 ZAC 111.73 ETC 172.13 CLP -89.22

PLANETOCENTRIC CONIC

C3 14.817 VHL 3.849 DLA 42.04 RAL 11.45 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 2.807 DPA -10.85 RAP 20.82 ECC 1.2439
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.53 20 56 33 4126.49 -30.77 184.18 240.14 59.81 22 5 19 3526.5 -34.52 176.21
 122.47 4 5 36 2807.82 -30.76 83.12 240.13 59.80 4 52 24 2207.8 -34.52 75.14
 57.53 20 56 33 4126.49 -30.77 184.18 240.14 59.81 22 5 19 3526.5 -34.52 176.21
 122.47 4 5 36 2807.82 -30.76 83.12 240.13 59.80 4 52 24 2207.8 -34.52 75.14
 57.53 20 56 33 4126.49 -30.77 184.18 240.14 59.81 22 5 19 3526.5 -34.52 176.21
 122.47 4 5 36 2807.82 -30.76 83.12 240.13 59.80 4 52 24 2207.8 -34.52 75.14

DIFFERENTIAL CORRECTIONS

TDE .7153 TRA .1505 TC3 -1.0241 BAU .2356
 RDE .7160 RRA .3622 RC3 -.6049 FAU .19118
 FDE10.2415 FRA 6.4306 FC-11.1701 BSP 5090
 BDE 1.0121 BRA .3923 BC3 1.1894 FSP -6090

MID-COURSE EXECUTION ACCURACY

SGT 1358.7 SGR 1371.0 SG3 1877.9
 RRT .9238 RRF .9935 RTF .9108
 SGB 1930.3 R23 .2101 R13 .9712
 SG1 1893.1 SG2 376.8 THA 45.28

ORBIT DETERMINATION ACCURACY

ST 1068.7 SR 1087.9 SS 3814.3
 CRT .9932 CRS -.9989 CST -.9866
 LSA 4104.3 MSA 171.8 SSA 5.4
 EL1 1522.4 EL2 89.2 ALF 45.51

LAUNCH DATE DEC 15 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 462.077

RL 147.23 LAL .00 LOL 83.09 VL 27.800 GAL 3.56 AZL 85.73 MCA 203.79 SMA 128.86 ECC .15530 INC 4.2678 V1 30.259
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.522 GAP .50 AZP 93.91 TAL 159.96 TAP 3.76 RCA 108.85 APO 148.87 V2 34.804
 RC 87.691 GL 32.77 GP -13.26 ZAL 60.24 ZAP 94.78 ETS .40 ZAE 159.48 ETE 222.18 ZAC 108.98 ETC 170.81 CLP -94.91

PLANETOCENTRIC CONIC

C3 14.552 VHL 3.815 DLA 41.31 RAL 12.44 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 2.795 DPA -10.15 RAP 17.75 ECC 1.2395
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.57 21 4 55 4110.23 -30.42 182.54 240.52 60.59 22 13 25 3510.2 -34.08 174.54
 121.43 4 5 4 2816.05 -30.41 83.60 240.51 60.58 4 52 0 2216.1 -34.07 75.60
 58.57 21 4 55 4110.23 -30.42 182.54 240.52 60.59 22 13 25 3510.2 -34.08 174.54
 121.43 4 5 4 2816.05 -30.41 83.60 240.51 60.58 4 52 0 2216.1 -34.07 75.60
 58.57 21 4 55 4110.23 -30.42 182.54 240.52 60.59 22 13 25 3510.2 -34.08 174.54
 121.43 4 5 4 2816.05 -30.41 83.60 240.51 60.58 4 52 0 2216.1 -34.07 75.60

DIFFERENTIAL CORRECTIONS

TDE .9257 TRA .3101 TC3 -1.3100 BAU .2743
 RDE .6271 RRA .3186 RC3 -.5219 FAU .19343
 FDE 9.9333 FRA 6.6109 FC-11.5075 BSP 5768
 BDE 1.1181 BRA .4446 BC3 1.4102 FSP -6197

MID-COURSE EXECUTION ACCURACY

SGT 1821.1 SGR 1204.8 SG3 1881.9
 RRT .9583 RRF .9896 RTF .9508
 SGB 2183.5 R23 .1911 R13 .9710
 SG1 2164.2 SG2 289.8 THA 33.04

ORBIT DETERMINATION ACCURACY

ST 1403.0 SR 961.2 SS 3729.0
 CRT .9977 CRS -.9982 CST -.9920
 LSA 4095.0 MSA 171.2 SSA 6.1
 EL1 1699.8 EL2 53.7 ALF 34.39

LAUNCH DATE DEC 15 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 468.349

RL 147.23 LAL .00 LOL 83.09 VL 27.800 GAL 3.62 AZL 85.85 MCA 206.96 SMA 128.86 ECC .15569 INC 4.1485 V1 30.259
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.517 GAP .89 AZP 93.70 TAL 159.69 TAP 6.65 RCA 108.80 APO 148.92 V2 34.799
 RC 90.065 GL 31.92 GP -11.70 ZAL 59.61 ZAP 100.24 ETS 359.24 ZAE 157.29 ETE 211.72 ZAC 106.40 ETC 169.81 CLP -100.46

PLANETOCENTRIC CONIC

C3 14.408 VHL 3.796 DLA 40.72 RAL 13.37 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 2.813 DPA -9.70 RAP 14.94 ECC 1.2371
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.43 21 12 25 4097.51 -30.10 181.24 241.04 61.17 22 20 42 3497.5 -33.69 173.23
 120.57 4 5 0 2824.36 -30.09 84.10 241.04 61.16 4 52 4 2224.4 -33.68 76.10
 59.43 21 12 25 4097.51 -30.10 181.24 241.04 61.17 22 20 42 3497.5 -33.69 173.23
 120.57 4 5 0 2824.36 -30.09 84.10 241.04 61.16 4 52 4 2224.4 -33.68 76.10
 59.43 21 12 25 4097.51 -30.10 181.24 241.04 61.17 22 20 42 3497.5 -33.69 173.23
 120.57 4 5 0 2824.36 -30.09 84.10 241.04 61.16 4 52 4 2224.4 -33.68 76.10

DIFFERENTIAL CORRECTIONS

TDE 1.1242 TRA .4716 TC3 -1.5914 BAU .3181
 RDE .5562 RRA .2789 RC3 -.4406 FAU .19130
 FDE 9.5058 FRA 6.6625 FC-11.4944 BSP 6814
 BDE 1.2542 BRA .5479 BC3 1.6512 FSP -6166

MID-COURSE EXECUTION ACCURACY

SGT 2284.9 SGR 1060.9 SG3 1849.2
 RRT .9697 RRF .9838 RTF .9682
 SGB 2519.2 R23 .1420 R13 .9752
 SG1 2508.1 SG2 236.2 THA 24.47

ORBIT DETERMINATION ACCURACY

ST 1720.5 SR 856.1 SS 3620.0
 CRT .9995 CRS -.9972 CST -.9944
 LSA 4094.9 MSA 171.0 SSA 6.7
 EL1 1921.5 EL2 25.1 ALF 26.45

LAUNCH DATE DEC 15 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 474.601

RL 147.23 LAL .00 LOL 83.09 VL 27.798 GAL 3.69 AZL 85.95 HCA 210.12 SMA 128.85 ECC .15629 INC 4.0525 V1 30.259
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.512 GAP 1.28 AZP 93.51 TAL 159.37 TAP 9.49 RCA 108.71 APO 148.98 V2 34.795
 RC 92.449 GL 31.16 GP -10.39 ZAL 58.96 ZAP 105.52 ETS 358.33 ZAE 154.57 ETE 204.01 ZAC 104.05 ETC 169.03 CLP-105.78

PLANETOCENTRIC CONIC

C3 14.358 VHL 3.789 DLA 40.22 RAL 14.29 RAD 6567.6 VEL 11.651 PTH 2.05 VHP 2.857 DPA -9.40 RAP 12.43 ECC 1.2363
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.16 21 19 23 4087.50 -29.79 180.19 241.70 61.63 22 27 31 3487.5 -33.32 172.18
 119.84 4 5 23 2832.82 -29.77 84.63 241.69 61.61 4 52 35 2232.8 -33.31 76.62
 60.16 21 19 23 4087.50 -29.79 180.19 241.70 61.63 22 27 31 3487.5 -33.32 172.18
 119.84 4 5 23 2832.82 -29.77 84.63 241.69 61.61 4 52 35 2232.8 -33.31 76.62
 60.16 21 19 23 4087.50 -29.79 180.19 241.70 61.63 22 27 31 3487.5 -33.32 172.18
 119.84 4 5 23 2832.82 -29.77 84.63 241.69 61.61 4 52 35 2232.8 -33.31 76.62

DIFFERENTIAL CORRECTIONS

TDE 1.3095 TRA .6336 TC3-1.8575 BAU .3632
 RDE .4989 RRA .2431 RC3 -.3613 FAU .18513
 FDE 8.9978 FRA 6.6179 FC-11.1626 BSP .8012
 BDE 1.4013 BRA .6786 BC3 1.8924 FSP -5994

MID-COURSE EXECUTION ACCURACY

SGT 2734.3 SGR 935.9 SG3 1788.3
 RRT .9704 RRF .9751 RTF .9769
 SGB 2890.0 R23 .0879 R13 .9794
 SG1 2882.1 SG2 214.4 TMA 18.48

ORBIT DETERMINATION ACCURACY

ST 2016.0 SR 768.2 SS 3496.0
 CRT .9999 CRS -.9957 CST -.9956
 LSA 4104.5 MSA 171.2 SSA 7.4
 EL1 2157.4 EL2 7.4 ALF 20.86

LAUNCH DATE DEC 15 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 480.832

RL 147.23 LAL .00 LOL 83.09 VL 27.794 GAL 3.77 AZL 86.03 HCA 213.28 SMA 128.82 ECC .15709 INC 3.9734 V1 30.259
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.505 GAP 1.66 AZP 93.32 TAL 159.01 TAP 12.29 RCA 108.58 APO 149.06 V2 34.791
 RC 94.840 GL 30.45 GP -9.27 ZAL 58.28 ZAP 110.56 ETS 357.63 ZAE 151.64 ETE 198.41 ZAC 101.99 ETC 168.44 CLP-110.84

PLANETOCENTRIC CONIC

C3 14.385 VHL 3.793 DLA 39.78 RAL 15.22 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 2.922 DPA -9.17 RAP 10.24 ECC 1.2367
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.81 21 26 6 4079.53 -29.48 179.32 242.48 61.98 22 34 5 3479.5 -32.97 171.32
 119.19 4 6 8 2841.62 -29.46 85.18 242.47 61.97 4 53 30 2241.6 -32.96 77.18
 60.81 21 26 6 4079.53 -29.48 179.32 242.48 61.98 22 34 5 3479.5 -32.97 171.32
 119.19 4 6 8 2841.62 -29.46 85.18 242.47 61.97 4 53 30 2241.6 -32.96 77.18
 60.81 21 26 6 4079.53 -29.48 179.32 242.48 61.98 22 34 5 3479.5 -32.97 171.32
 119.19 4 6 8 2841.62 -29.46 85.18 242.47 61.97 4 53 30 2241.6 -32.96 77.18

DIFFERENTIAL CORRECTIONS

TDE 1.4780 TRA .7925 TC3-2.1055 BAU .4087
 RDE .4514 RRA .2097 RC3 -.2893 FAU .17712
 FDE 8.4156 FRA 6.4734 FC-10.6603 BSP .9291
 BDE 1.5454 BRA .8198 BC3 2.1253 FSP -5781

MID-COURSE EXECUTION ACCURACY

SGT 3156.4 SGR 826.4 SG3 1703.9
 RRT .9641 RRF .9626 RTF .9819
 SGB 3262.8 R23 .0434 R13 .9828
 SG1 3255.9 SG2 212.6 TMA 14.23

ORBIT DETERMINATION ACCURACY

ST 2281.7 SR 693.0 SS 3352.3
 CRT .9996 CRS -.9937 CST -.9964
 LSA 4110.3 MSA 171.2 SSA 7.9
 EL1 2384.5 EL2 19.4 ALF 16.89

LAUNCH DATE DEC 15 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 487.042

RL 147.23 LAL .00 LOL 83.09 VL 27.789 GAL 3.87 AZL 86.09 HCA 216.45 SMA 128.78 ECC .15809 INC 3.9065 V1 30.259
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.498 GAP 2.04 AZP 93.14 TAL 158.60 TAP 15.04 RCA 108.42 APO 149.14 V2 34.788
 RC 97.236 GL 29.76 GP -8.31 ZAL 57.58 ZAP 115.32 ETS 357.08 ZAE 148.72 ETE 194.31 ZAC 100.23 ETC 167.98 CLP-115.60

PLANETOCENTRIC CONIC

C3 14.479 VHL 3.805 DLA 39.38 RAL 16.19 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.008 DPA -8.96 RAP 8.37 ECC 1.2383
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.40 21 32 41 4073.22 -29.16 178.60 243.38 62.26 22 40 34 3473.2 -32.62 170.61
 118.60 4 7 15 2850.83 -29.15 85.77 243.38 62.25 4 54 46 2250.8 -32.61 77.78
 61.40 21 32 41 4073.22 -29.16 178.60 243.38 62.26 22 40 34 3473.2 -32.62 170.61
 118.60 4 7 15 2850.83 -29.15 85.77 243.38 62.25 4 54 46 2250.8 -32.61 77.78
 61.40 21 32 41 4073.22 -29.16 178.60 243.38 62.26 22 40 34 3473.2 -32.62 170.61
 118.60 4 7 15 2850.83 -29.15 85.77 243.38 62.25 4 54 46 2250.8 -32.61 77.78

DIFFERENTIAL CORRECTIONS

TDE 1.6305 TRA .9489 TC3-2.3283 BAU .4528
 RDE .4127 RRA .1794 RC3 -.2235 FAU .16739
 FDE 7.8056 FRA 6.2715 FC-10.0085 BSP 10556
 BDE 1.6819 BRA .9657 BC3 2.3390 FSP -5511

MID-COURSE EXECUTION ACCURACY

SGT 3547.4 SGR 733.0 SG3 1605.8
 RRT .9511 RRF .9447 RTF .9849
 SGB 3622.3 R23 .0138 R13 .9851
 SG1 3615.5 SG2 222.1 TMA 11.16

ORBIT DETERMINATION ACCURACY

ST 2517.5 SR 630.2 SS 3200.2
 CRT .9984 CRS -.9908 CST -.9968
 LSA 4116.6 MSA 171.3 SSA 8.5
 EL1 2594.9 EL2 34.5 ALF 14.04

LAUNCH DATE DEC 15 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 493.231

RL 147.23 LAL .00 LOL 83.09 VL 27.782 GAL 3.98 AZL 86.15 HCA 219.61 SMA 128.73 ECC .15930 INC 3.8489 V1 30.259
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.491 GAP 2.42 AZP 92.97 TAL 158.15 TAP 17.75 RCA 108.23 APO 149.24 V2 34.786
 RC 99.636 GL 29.10 GP -7.48 ZAL 56.83 ZAP 119.78 ETS 356.66 ZAE 145.91 ETE 191.26 ZAC 98.80 ETC 167.64 CLP-120.06

PLANETOCENTRIC CONIC

C3 14.637 VHL 3.826 DLA 39.02 RAL 17.19 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 3.111 DPA -8.74 RAP 6.85 ECC 1.2409
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.95 21 39 18 4068.15 -28.84 177.98 244.41 62.49 22 47 6 3468.2 -32.28 170.00
 118.05 4 8 38 2860.70 -28.83 86.40 244.40 62.48 4 56 19 2260.7 -32.26 78.43
 61.95 21 39 18 4068.15 -28.84 177.98 244.41 62.49 22 47 6 3468.2 -32.28 170.00
 118.05 4 8 38 2860.70 -28.83 86.40 244.40 62.48 4 56 19 2260.7 -32.26 78.43
 61.95 21 39 18 4068.15 -28.84 177.98 244.41 62.49 22 47 6 3468.2 -32.28 170.00
 118.05 4 8 38 2860.70 -28.83 86.40 244.40 62.48 4 56 19 2260.7 -32.26 78.43

DIFFERENTIAL CORRECTIONS

TDE 1.7685 TRA 1.1036 TC3-2.5210 BAU .4943
 RDE .3820 RRA .1525 RC3 -.1642 FAU .15639
 FDE 7.1999 FRA 6.0369 FC3-9.2504 BSP 11749
 BDE 1.8092 BRA 1.1141 BC3 2.5263 FSP -5196

MID-COURSE EXECUTION ACCURACY

SGT 3906.5 SGR 655.3 SG3 1500.9
 RRT .9307 RRF .9204 RTF .9868
 SGB 3961.1 R23 -.0039 R13 .9868
 SG1 3954.0 SG2 236.7 TMA 8.91

ORBIT DETERMINATION ACCURACY

ST 2724.9 SR 578.8 SS 3047.0
 CRT .9964 CRS -.9871 CST -.9971
 LSA 4124.9 MSA 171.5 SSA 9.0
 EL1 2785.3 EL2 48.0 ALF 11.95

LAUNCH DATE DEC 15 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 499.399

RL 147.23 LAL .00 LOL 83.09 VL 27.773 GAL 4.10 AZL 86.20 HCA 222.77 SMA 128.67 ECC .16070 INC 3.7986 V1 30.259
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.483 GAP 2.79 AZP 92.79 TAL 157.65 TAP 20.42 RCA 108.00 APO 149.35 V2 34.784
 RC 102.038 GL 28.44 GP -6.75 ZAL 56.04 ZAP 123.93 ETS 356.34 ZAE 143.29 ETE 188.95 ZAC 97.68 ETC 167.39 CLP-124.20

PLANETOCENTRIC CONIC

C3 14.855 VHL 3.854 DLA 38.68 RAL 18.24 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 3.230 DPA -8.49 RAP 5.65 ECC 1.2445
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.47 21 45 58 4064.26 -28.50 177.46 245.54 62.67 22 53 42 3464.3 -31.92 169.50
 117.53 4 10 18 2871.18 -28.49 87.08 245.53 62.65 4 58 9 2271.2 -31.91 79.12
 62.47 21 45 58 4064.26 -28.50 177.46 245.54 62.67 22 53 42 3464.3 -31.92 169.50
 117.53 4 10 18 2871.18 -28.49 87.08 245.53 62.65 4 58 9 2271.2 -31.91 79.12
 62.47 21 45 58 4064.26 -28.50 177.46 245.54 62.67 22 53 42 3464.3 -31.92 169.50
 117.53 4 10 18 2871.18 -28.49 87.08 245.53 62.65 4 58 9 2271.2 -31.91 79.12

DIFFERENTIAL CORRECTIONS

TDE 1.8922 TRA 1.2565 TC3-2.6828 BAU .5332
 RDE .3581 RRA .1285 RC3 -.1121 FAU .14488
 FDE 6.6126 FRA 5.7830 FC3-8.4439 BSP 12865
 BOE 1.9258 BRA 1.2630 BC3 2.6851 FSP -4863

MID-COURSE EXECUTION ACCURACY

SGT 4232.5 SGR 592.2 SG3 1393.9
 RRT .9023 RRF .8886 RTF .9880
 SGB 4273.7 R23 -.0139 R13 .9879
 SG1 4266.2 SG2 253.3 THA 7.22

ORBIT DETERMINATION ACCURACY

ST 2903.7 SR 537.4 SS 2894.4
 CRT .9935 CRS -.9824 CST -.9972
 LSA 4131.3 MSA 171.9 SSA 9.5
 EL1 2952.4 EL2 60.1 ALF 10.42

LAUNCH DATE DEC 15 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 505.546

RL 147.23 LAL .00 LOL 83.09 VL 27.764 GAL 4.24 AZL 86.25 HCA 225.93 SMA 128.61 ECC .16231 INC 3.7539 V1 30.259
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.475 GAP 3.16 AZP 92.61 TAL 157.12 TAP 23.05 RCA 107.73 APO 149.48 V2 34.783
 RC 104.441 GL 27.77 GP -6.12 ZAL 55.22 ZAP 127.79 ETS 356.09 ZAE 140.86 ETE 187.17 ZAC 96.88 ETC 167.21 CLP-128.04

PLANETOCENTRIC CONIC

C3 15.132 VHL 3.890 DLA 38.35 RAL 19.32 RAD 6567.6 VEL 11.684 PTH 2.05 VHP 3.362 DPA -8.20 RAP 4.76 ECC 1.2490
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.98 21 52 48 4061.19 -28.15 177.00 246.76 62.81 23 0 30 3461.2 -31.56 169.06
 117.02 4 12 8 2882.53 -28.14 87.81 246.77 62.79 5 0 11 2282.5 -31.54 79.88
 62.98 21 52 48 4061.19 -28.15 177.00 246.76 62.81 23 0 30 3461.2 -31.56 169.06
 117.02 4 12 8 2882.53 -28.14 87.81 246.77 62.79 5 0 11 2282.5 -31.54 79.88
 62.98 21 52 48 4061.19 -28.15 177.00 246.76 62.81 23 0 30 3461.2 -31.56 169.06
 117.02 4 12 8 2882.53 -28.14 87.81 246.77 62.79 5 0 11 2282.5 -31.54 79.88

DIFFERENTIAL CORRECTIONS

TDE 2.0053 TRA 1.4110 TC3-2.8085 BAU .5683
 RDE .3405 RRA .1078 RC3 -.0666 FAU .13287
 FDE 6.0660 FRA 5.5342 FC3-7.6016 BSP 13849
 BOE 2.0340 BRA 1.4151 BC3 2.8093 FSP -4506

MID-COURSE EXECUTION ACCURACY

SGT 4529.9 SGR 543.2 SG3 1289.7
 RRT .8658 RRF .8497 RTF .9887
 SGB 4562.4 R23 -.0188 R13 .9886
 SG1 4554.4 SG2 270.4 THA 5.95

ORBIT DETERMINATION ACCURACY

ST 3059.4 SR 505.1 SS 2749.5
 CRT .9897 CRS -.9768 CST -.9973
 LSA 4140.7 MSA 172.6 SSA 10.1
 EL1 3100.0 EL2 71.3 ALF 9.29

LAUNCH DATE DEC 15 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 511.672

RL 147.23 LAL .00 LOL 83.09 VL 27.752 GAL 4.40 AZL 86.29 HCA 229.09 SMA 128.53 ECC .16412 INC 3.7138 V1 30.259
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.467 GAP 3.54 AZP 92.43 TAL 156.55 TAP 25.64 RCA 107.43 APO 149.62 V2 34.783
 RC 106.844 GL 27.11 GP -5.58 ZAL 54.35 ZAP 131.36 ETS 355.91 ZAE 138.65 ETE 185.79 ZAC 96.36 ETC 167.10 CLP-131.60

PLANETOCENTRIC CONIC

C3 15.471 VHL 3.933 DLA 38.03 RAL 20.45 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 3.507 DPA -7.86 RAP 4.17 ECC 1.2546
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.48 21 59 47 4059.00 -27.78 176.60 248.13 62.92 23 7 26 3459.0 -31.17 168.69
 116.52 4 14 10 2894.66 -27.77 88.59 248.12 62.90 5 2 25 2294.7 -31.16 80.69
 63.48 21 59 47 4059.00 -27.78 176.60 248.13 62.92 23 7 26 3459.0 -31.17 168.69
 116.52 4 14 10 2894.66 -27.77 88.59 248.12 62.90 5 2 25 2294.7 -31.16 80.69
 63.48 21 59 47 4059.00 -27.78 176.60 248.13 62.92 23 7 26 3459.0 -31.17 168.69
 116.52 4 14 10 2894.66 -27.77 88.59 248.12 62.90 5 2 25 2294.7 -31.16 80.69

DIFFERENTIAL CORRECTIONS

TDE 2.1043 TRA 1.5632 TC3-2.9101 BAU .6019
 RDE .3277 RRA .0894 RC3 -.0293 FAU .12176
 FDE 5.5462 FRA 5.2778 FC3-6.8136 BSP 14806
 BOE 2.1296 BRA 1.5658 BC3 2.9102 FSP -4183

MID-COURSE EXECUTION ACCURACY

SGT 4795.1 SGR 505.6 SG3 1188.6
 RRT .8222 RRF .8040 RTF .9891
 SGB 4821.7 R23 -.0214 R13 .9890
 SG1 4813.2 SG2 286.7 THA 4.97

ORBIT DETERMINATION ACCURACY

ST 3186.3 SR 479.9 SS 2604.7
 CRT .9850 CRS -.9702 CST -.9974
 LSA 4139.7 MSA 173.5 SSA 10.6
 EL1 3221.2 EL2 81.9 ALF 8.44

LAUNCH DATE DEC 15 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 517.775

RL 147.23 LAL .00 LOL 83.09 VL 27.740 GAL 4.57 AZL 86.32 HCA 232.25 SMA 128.44 ECC .16614 INC 3.6773 V1 30.259
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.458 GAP 3.92 AZP 92.25 TAL 155.94 TAP 28.19 RCA 107.10 APO 149.78 V2 34.784
 RC 109.246 GL 26.43 GP -5.10 ZAL 53.44 ZAP 134.67 ETS 355.77 ZAE 136.65 ETE 184.69 ZAC 96.12 ETC 167.03 CLP-134.89

PLANETOCENTRIC CONIC

C3 15.872 VHL 3.984 DLA 37.71 RAL 21.63 RAD 6567.6 VEL 11.716 PTH 2.06 VHP 3.664 DPA -7.48 RAP 3.85 ECC 1.2612
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.98 22 6 59 4057.43 -27.39 176.25 249.57 63.00 23 14 37 3457.4 -30.77 168.37
 116.02 4 16 19 2907.81 -27.37 89.44 249.56 62.98 5 4 47 2307.8 -30.76 81.57
 63.98 22 6 59 4057.43 -27.39 176.25 249.57 63.00 23 14 37 3457.4 -30.77 168.37
 116.02 4 16 19 2907.81 -27.37 89.44 249.56 62.98 5 4 47 2307.8 -30.76 81.57
 63.98 22 6 59 4057.43 -27.39 176.25 249.57 63.00 23 14 37 3457.4 -30.77 168.37
 116.02 4 16 19 2907.81 -27.37 89.44 249.56 62.98 5 4 47 2307.8 -30.76 81.57

DIFFERENTIAL CORRECTIONS

TDE 2.1935 TRA 1.7174 TC3-2.9815 BAU .6326
 RDE .3194 RRA .0736 RC3 .0015 FAU .11113
 FDE 5.0694 FRA 5.0329 FC3-6.0615 BSP 15664
 BOE 2.2167 BRA 1.7190 BC3 2.9815 FSP -3869

MID-COURSE EXECUTION ACCURACY

SGT 5034.2 SGR 478.4 SG3 1093.5
 RRT .7739 RRF .7542 RTF .9894
 SGB 5056.9 R23 -.0224 R13 .9893
 SG1 5047.8 SG2 302.2 THA 4.22

ORBIT DETERMINATION ACCURACY

ST 3291.6 SR 461.1 SS 2466.6
 CRT .9795 CRS -.9628 CST -.9974
 LSA 4135.3 MSA 174.7 SSA 11.0
 EL1 3322.4 EL2 91.9 ALF 7.82

LAUNCH DATE DEC 15 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 523.856

RL 147.23 LAL .00 LOL 83.09 VL 27.727 GAL 4.75 AZL 86.36 MCA 235.41 SMA 128.35 ECC .16838 INC 3.6438 VI 30.259
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.450 GAP 4.30 AZP 92.07 TAL 155.29 TAP 30.70 RCA 106.74 APO 149.96 V2 34.785
 RC 111.645 GL 25.75 GP -4.68 ZAL 52.50 ZAP 137.73 ETS 355.67 ZAE 134.85 ETE 183.81 ZAC 96.13 ETC 167.00 CLP-137.94

PLANETOCENTRIC CONIC

C3 16.339 VHL 4.042 CLA 37.39 RAL 22.84 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 3.831 DPA -7.05 RAP 3.77 ECC 1.2689
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.49 22 14 23 4056.54 -26.97 175.94 251.11 63.06 23 21 59 3456.5 -30.35 168.09
 115.51 4 18 34 2921.90 -26.96 90.36 251.10 63.05 5 7 16 2321.9 -30.34 82.51
 64.49 22 14 23 4056.54 -26.97 175.94 251.11 63.06 23 21 59 3456.5 -30.35 168.09
 115.51 4 18 34 2921.90 -26.96 90.36 251.10 63.05 5 7 16 2321.9 -30.34 82.51
 64.49 22 14 23 4056.54 -26.97 175.94 251.11 63.06 23 21 59 3456.5 -30.35 168.09
 115.51 4 18 34 2921.90 -26.96 90.36 251.10 63.05 5 7 16 2321.9 -30.34 82.51

DIFFERENTIAL CORRECTIONS

TDE 2.2737 TRA 1.8744 TC3-3.0254 BAU .6609
 RDE .3151 RRA .0601 RC3 .0262 FAU .10110
 FDE 4.6344 FRA 4.8030 FC3-5.3567 BSP 16459
 BDE 2.2955 BRA 1.8754 BC3 3.0255 FSP -3576

MID-COURSE EXECUTION ACCURACY

SGT 5249.1 SGR 459.8 SG3 1005.1
 RRT .7236 RRF .7032 RTF .9894
 SGB 5269.2 R23 -.0222 R13 .9894
 SG1 5259.6 SG2 316.7 TMA 3.64

ORBIT DETERMINATION ACCURACY

ST 3376.3 SR 447.8 SS 2335.5
 CRT .9734 CRS -.9548 CST -.9975
 LSA 4125.9 MSA 176.4 SSA 11.4
 EL1 3404.3 EL2 101.7 ALF 7.36

LAUNCH DATE DEC 15 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 529.913

RL 147.23 LAL .00 LOL 83.09 VL 27.712 GAL 4.95 AZL 86.39 MCA 238.57 SMA 128.25 ECC .17085 INC 3.6128 VI 30.259
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.441 GAP 4.68 AZP 91.89 TAL 154.61 TAP 33.18 RCA 106.34 APO 150.16 V2 34.787
 RC 114.042 GL 25.05 GP -4.31 ZAL 51.52 ZAP 140.57 ETS 355.60 ZAE 133.23 ETE 183.11 ZAC 96.36 ETC 167.00 CLP-140.77

PLANETOCENTRIC CONIC

C3 16.877 VHL 4.108 CLA 37.07 RAL 24.08 RAD 6567.7 VEL 11.758 PTH 2.08 VHP 4.009 DPA -6.58 RAP 3.92 ECC 1.2777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.01 22 22 3 4056.06 -26.53 175.65 252.74 63.10 23 29 39 3456.1 -29.91 167.83
 114.99 4 20 51 2937.23 -26.52 91.35 252.73 63.09 5 9 48 2337.2 -29.90 83.54
 65.01 22 22 3 4056.06 -26.53 175.65 252.74 63.10 23 29 39 3456.1 -29.91 167.83
 114.99 4 20 51 2937.23 -26.52 91.35 252.73 63.09 5 9 48 2337.2 -29.90 83.54
 65.01 22 22 3 4056.06 -26.53 175.65 252.74 63.10 23 29 39 3456.1 -29.91 167.83
 114.99 4 20 51 2937.23 -26.52 91.35 252.73 63.09 5 9 48 2337.2 -29.90 83.54

DIFFERENTIAL CORRECTIONS

TDE 2.3467 TRA 2.0355 TC3-3.0431 BAU .6867
 RDE .3141 RRA .0489 RC3 .0455 FAU .09172
 FDE 4.2414 FRA 4.5896 FC3-4.7052 BSP 17173
 BDE 2.3677 BRA 2.0361 BC3 3.0435 FSP -3299

MID-COURSE EXECUTION ACCURACY

SGT 5442.6 SGR 448.0 SG3 923.7
 RRT .6746 RRF .6542 RTF .9894
 SGB 5461.0 R23 -.0212 R13 .9893
 SG1 5451.0 SG2 330.2 TMA 3.19

ORBIT DETERMINATION ACCURACY

ST 3443.4 SR 438.9 SS 2212.2
 CRT .9669 CRS -.9465 CST -.9975
 LSA 4112.4 MSA 178.4 SSA 11.8
 EL1 3469.5 EL2 111.1 ALF 7.03

LAUNCH DATE DEC 15 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 535.947

RL 147.23 LAL .00 LOL 83.09 VL 27.697 GAL 5.17 AZL 86.42 MCA 241.74 SMA 128.15 ECC .17354 INC 3.5837 VI 30.259
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.432 GAP 5.06 AZP 91.70 TAL 153.90 TAP 35.63 RCA 105.91 APO 150.39 V2 34.790
 RC 116.435 GL 24.35 GP -3.98 ZAL 50.51 ZAP 143.22 ETS 355.54 ZAE 131.78 ETE 182.53 ZAC 96.80 ETC 167.01 CLP-143.40

PLANETOCENTRIC CONIC

C3 17.491 VHL 4.182 CLA 36.74 RAL 25.36 RAD 6567.7 VEL 11.784 PTH 2.08 VHP 4.195 DPA -6.07 RAP 4.27 ECC 1.2879
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.54 22 29 56 4056.06 -26.06 175.38 254.45 63.13 23 37 32 3456.1 -29.44 167.60
 114.46 4 23 8 2953.74 -26.05 92.42 254.44 63.12 5 12 22 2353.7 -29.43 84.65
 65.54 22 29 56 4056.06 -26.06 175.38 254.45 63.13 23 37 32 3456.1 -29.44 167.60
 114.46 4 23 8 2953.74 -26.05 92.42 254.44 63.12 5 12 22 2353.7 -29.43 84.65
 65.54 22 29 56 4056.06 -26.06 175.38 254.45 63.13 23 37 32 3456.1 -29.44 167.60
 114.46 4 23 8 2953.74 -26.05 92.42 254.44 63.12 5 12 22 2353.7 -29.43 84.65

DIFFERENTIAL CORRECTIONS

TDE 2.4156 TRA 2.2042 TC3-3.0310 BAU .7089
 RDE .3163 RRA .0398 RC3 .0604 FAU .08276
 FDE 3.8920 FRA 4.3985 FC3-4.0963 BSP 17761
 BDE 2.4363 BRA 2.2045 BC3 3.0316 FSP -3030

MID-COURSE EXECUTION ACCURACY

SGT 5619.6 SGR 441.5 SG3 849.7
 RRT .6298 RRF .6102 RTF .9892
 SGB 5636.9 R23 -.0195 R13 .9892
 SG1 5626.5 SG2 342.5 TMA 2.84

ORBIT DETERMINATION ACCURACY

ST 3498.0 SR 433.8 SS 2098.9
 CRT .9602 CRS -.9381 CST -.9975
 LSA 4098.4 MSA 180.9 SSA 12.2
 EL1 3522.7 EL2 120.3 ALF 6.80

LAUNCH DATE DEC 15 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 541.955

RL 147.23 LAL .00 LOL 83.09 VL 27.681 GAL 5.40 AZL 86.44 MCA 244.90 SMA 128.04 ECC .17649 INC 3.5564 VI 30.259
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.424 GAP 5.46 AZP 91.51 TAL 153.16 TAP 38.05 RCA 105.44 APO 150.64 V2 34.794
 RC 118.823 GL 23.63 GP -3.70 ZAL 49.47 ZAP 145.68 ETS 355.49 ZAE 130.48 ETE 182.07 ZAC 97.41 ETC 167.04 CLP-145.86

PLANETOCENTRIC CONIC

C3 18.187 VHL 4.265 CLA 36.41 RAL 26.66 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.391 DPA -5.51 RAP 4.80 ECC 1.2993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.10 22 38 6 4056.40 -25.56 175.13 256.24 63.15 23 45 42 3456.4 -28.95 167.39
 113.90 4 25 22 2971.57 -25.55 93.58 256.23 63.13 5 14 54 2371.6 -28.93 85.84
 66.10 22 38 6 4056.40 -25.56 175.13 256.24 63.15 23 45 42 3456.4 -28.95 167.39
 113.90 4 25 22 2971.57 -25.55 93.58 256.23 63.13 5 14 54 2371.6 -28.93 85.84
 66.10 22 38 6 4056.40 -25.56 175.13 256.24 63.15 23 45 42 3456.4 -28.95 167.39
 113.90 4 25 22 2971.57 -25.55 93.58 256.23 63.13 5 14 54 2371.6 -28.93 85.84

DIFFERENTIAL CORRECTIONS

TDE 2.4761 TRA 2.3763 TC3-3.0038 BAU .7306
 RDE .3208 RRA .0325 RC3 .0705 FAU .07487
 FDE 3.5711 FRA 4.2176 FC3-3.5637 BSP 18360
 BDE 2.4968 BRA 2.3765 BC3 3.0047 FSP -2798

MID-COURSE EXECUTION ACCURACY

SGT 5776.3 SGR 438.5 SG3 781.6
 RRT .5902 RRF .5715 RTF .9890
 SGB 5792.9 R23 -.0178 R13 .9889
 SG1 5782.1 SG2 353.6 TMA 2.57

ORBIT DETERMINATION ACCURACY

ST 3533.9 SR 431.3 SS 1989.3
 CRT .9533 CRS -.9296 CST -.9975
 LSA 4074.0 MSA 183.7 SSA 12.4
 EL1 3557.7 EL2 129.4 ALF 6.64

LAUNCH DATE DEC 15 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 27.864 GAL 5.86 AZL 86.47 MCA 248.06 SMA 127.92 ECC .17969 INC 3.5304 V1 30.259
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.415 GAP 5.86 AZP 91.32 TAL 152.39 TAP 40.45 RCA 104.94 APO 150.91 V2 34.798
 RC 121.206 GL 22.90 GP -3.44 ZAL 48.40 ZAP 147.99 ETB 355.45 ZAE 129.31 ETE 181.68 ZAC 98.19 ETC 167.09 CLP-148.15

PLANETOCENTRIC CONIC
 C3 18.974 VHL 4.356 DLA 56.06 RAL 27.98 RAD 6567.8 VEL 11.847 PTH 2.10 VHP 4.597 DPA -4.92 RAP 5.48 ECC 1.3123
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.67 22 46 29 4057.12 -25.03 174.89 250.11 63.15 23 54 6 3457.1 -28.42 167.19
 113.33 4 27 33 2990.73 -25.02 94.82 250.10 63.14 5 17 24 2390.7 -28.41 87.13
 66.67 22 46 29 4057.12 -25.03 174.89 250.11 63.15 23 54 6 3457.1 -28.42 167.19
 113.33 4 27 33 2990.73 -25.02 94.82 250.10 63.14 5 17 24 2390.7 -28.41 87.13
 66.67 22 46 29 4057.12 -25.03 174.89 250.11 63.15 23 54 6 3457.1 -28.42 167.19
 113.33 4 27 33 2990.73 -25.02 94.82 250.10 63.14 5 17 24 2390.7 -28.41 87.13

MID-COURSE EXECUTION ACCURACY
 SGT 5917.8 SGR 438.1 SCS 719.6
 RRT .5971 RRF .5397 RTF .9887
 SGB 5934.0 R23 -.0159 R13 .9887
 SGI 5922.0 SGT 363.5 THA 2.37

ORBIT DETERMINATION ACCURACY
 ST 3557.3 SR 450.9 SS 1886.9
 CRT .9464 CRS -.9212 CST -.9975
 LSA 4045.4 MSA 186.9 SBA 12.7
 EL1 3580.7 EL2 130.3 ALF 6.55

DIFFERENTIAL CORRECTIONS
 TDE 2.5320 TRA 2.5500 TC3-2.9550 BAU .7501
 RDE .3275 RRA .0270 RC3 .0770 FAU .06750
 FDE 3.2828 FRA 4.0534 FC3-3.0834 B8P 18901
 BDE 2.5531 BRA 2.5562 BC3 2.9568 F8P -2585

LAUNCH DATE DEC 15 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 27.647 GAL 5.93 AZL 86.49 MCA 251.22 SMA 127.80 ECC .18316 INC 3.5056 V1 30.259
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.407 GAP 6.26 AZP 91.13 TAL 151.59 TAP 42.81 RCA 104.39 APO 151.21 V2 34.803
 RC 123.581 GL 22.17 GP -3.22 ZAL 47.32 ZAP 150.15 ETB 355.41 ZAE 128.26 ETE 181.37 ZAC 99.12 ETC 167.13 CLP-150.31

PLANETOCENTRIC CONIC
 C3 19.881 VHL 4.457 DLA 55.71 RAL 29.33 RAD 6567.8 VEL 11.885 PTH 2.11 VHP 4.812 DPA -4.30 RAP 6.31 ECC 1.3269
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.27 22 55 8 4050.07 -24.48 174.86 260.05 63.15 24 2 46 3458.1 -27.87 167.00
 112.73 4 29 36 3011.41 -24.46 96.16 260.04 63.13 5 19 47 2411.4 -27.86 88.51
 67.27 22 55 8 4050.07 -24.48 174.86 260.05 63.15 24 2 46 3458.1 -27.87 167.00
 112.73 4 29 36 3011.41 -24.46 96.16 260.04 63.13 5 19 47 2411.4 -27.86 88.51
 67.27 22 55 8 4050.07 -24.48 174.86 260.05 63.15 24 2 46 3458.1 -27.87 167.00
 112.73 4 29 36 3011.41 -24.46 96.16 260.04 63.13 5 19 47 2411.4 -27.86 88.51

MID-COURSE EXECUTION ACCURACY
 SGT 6044.4 SGR 439.5 SCS 663.1
 RRT .5305 RRF .5147 RTF .9884
 SGB 6060.4 R23 -.0139 R13 .9883
 SGI 6048.9 SGT 372.2 THA 2.22

ORBIT DETERMINATION ACCURACY
 ST 3568.4 SR 432.2 SS 1790.6
 CRT .9396 CRS -.9130 CST -.9975
 LSA 4011.3 MSA 190.4 SBA 12.8
 EL1 3591.5 EL2 147.0 ALF 6.50

DIFFERENTIAL CORRECTIONS
 TDE 2.5932 TRA 2.7433 TC3-2.8907 BAU .7679
 RDE .3360 RRA .0231 RC3 .0804 FAU .08093
 FDE 3.0230 FRA 3.8033 FC3-2.6359 B8P 19402
 BDE 2.6050 BRA 2.7434 BC3 2.8919 F8P -2390

LAUNCH DATE DEC 15 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 27.628 GAL 6.22 AZL 86.52 MCA 254.39 SMA 127.68 ECC .18692 INC 3.4817 V1 30.259
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.398 GAP 6.68 AZP 90.94 TAL 150.77 TAP 45.16 RCA 103.81 APO 151.54 V2 34.808
 RC 125.948 GL 21.42 GP -3.02 ZAL 46.22 ZAP 152.19 ETB 355.35 ZAE 127.32 ETE 181.11 ZAC 100.17 ETC 167.18 CLP-152.34

PLANETOCENTRIC CONIC
 C3 20.859 VHL 4.567 DLA 55.35 RAL 30.68 RAD 6567.8 VEL 11.926 PTH 2.12 VHP 5.037 DPA -3.65 RAP 7.26 ECC 1.3433
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.90 23 4 3 4059.23 -23.89 174.42 262.06 63.14 24 11 43 3459.2 -27.29 166.81
 112.10 4 31 29 3033.66 -23.88 97.60 262.05 63.12 5 22 2 2433.7 -27.28 89.99
 67.90 23 4 3 4059.23 -23.89 174.42 262.06 63.14 24 11 43 3459.2 -27.29 166.81
 112.10 4 31 29 3033.66 -23.88 97.60 262.05 63.12 5 22 2 2433.7 -27.28 89.99
 67.90 23 4 3 4059.23 -23.89 174.42 262.06 63.14 24 11 43 3459.2 -27.29 166.81
 112.10 4 31 29 3033.66 -23.88 97.60 262.05 63.12 5 22 2 2433.7 -27.28 89.99

MID-COURSE EXECUTION ACCURACY
 SGT 6182.8 SGR 442.1 SCS 612.3
 RRT .5112 RRF .4971 RTF .9880
 SGB 6178.8 R23 -.0114 R13 .9879
 SGI 6166.9 SGT 379.8 THA 2.11

ORBIT DETERMINATION ACCURACY
 ST 3574.5 SR 434.7 SS 1703.9
 CRT .9329 CRS -.9052 CST -.9975
 LSA 3978.8 MSA 194.3 SBA 13.0
 EL1 3597.4 EL2 155.6 ALF 6.48

DIFFERENTIAL CORRECTIONS
 TDE 2.6348 TRA 2.9439 TC3-2.8023 BAU .7818
 RDE .3464 RRA .0211 RC3 .0817 FAU .05455
 FDE 2.7946 FRA 3.7734 FC3-2.2642 B8P 19772
 BDE 2.6575 BRA 2.9440 BC3 2.8035 F8P -2200

LAUNCH DATE DEC 15 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 27.609 GAL 6.54 AZL 86.54 MCA 257.56 SMA 127.55 ECC .19100 INC 3.4584 V1 30.259
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.390 GAP 7.11 AZP 90.75 TAL 149.93 TAP 47.49 RCA 103.19 APO 151.91 V2 34.815
 RC 128.308 GL 20.67 GP -2.84 ZAL 45.10 ZAP 154.11 ETB 355.29 ZAE 126.47 ETE 180.90 ZAC 101.34 ETC 167.22 CLP-154.23

PLANETOCENTRIC CONIC
 C3 21.980 VHL 4.688 DLA 54.97 RAL 32.04 RAD 6567.9 VEL 11.973 PTH 2.13 VHP 5.273 DPA -2.97 RAP 8.33 ECC 1.3617
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.56 23 13 15 4060.52 -23.27 174.18 264.12 63.12 24 20 55 3460.5 -26.68 166.61
 111.44 4 33 9 3057.58 -23.26 99.15 264.12 63.11 5 24 6 2457.6 -26.67 91.59
 68.56 23 13 15 4060.52 -23.27 174.18 264.12 63.12 24 20 55 3460.5 -26.68 166.61
 111.44 4 33 9 3057.58 -23.26 99.15 264.12 63.11 5 24 6 2457.6 -26.67 91.59
 68.56 23 13 15 4060.52 -23.27 174.18 264.12 63.12 24 20 55 3460.5 -26.68 166.61
 111.44 4 33 9 3057.58 -23.26 99.15 264.12 63.11 5 24 6 2457.6 -26.67 91.59

MID-COURSE EXECUTION ACCURACY
 SGT 6284.6 SGR 445.1 SCS 565.8
 RRT .4970 RRF .4845 RTF .9876
 SGB 6280.4 R23 -.0094 R13 .9876
 SGI 6288.5 SGT 386.0 THA 2.03

ORBIT DETERMINATION ACCURACY
 ST 3585.5 SR 437.7 SS 1619.5
 CRT .9263 CRS -.8975 CST -.9975
 LSA 3935.4 MSA 198.4 SBA 13.1
 EL1 3588.6 EL2 163.9 ALF 6.30

DIFFERENTIAL CORRECTIONS
 TDE 2.6791 TRA 3.1504 TC3-2.7080 BAU .7961
 RDE .3581 RRA .0208 RC3 .0804 FAU .04903
 FDE 2.5832 FRA 3.6501 FC3-1.9312 B8P 20204
 BDE 2.7029 BRA 3.1505 BC3 2.7092 F8P -2039

LAUNCH DATE DEC 15 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 571.562

RL 147.23 LAL .00 LOL 83.09 VL 27.590 GAL 6.88 AZL 86.56 MCA 260.72 SMA 127.42 ECC .19541 INC 3.4358 V1 30.259
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.382 GAP 7.55 AZP 90.55 TAL 149.07 TAP 49.80 RCA 102.52 APO 152.32 V2 34.821
 RC 130.653 GL 19.91 GP -2.68 ZAL 43.97 ZAP 155.93 ETS 355.22 ZAE 125.71 ETE 180.72 ZAC 102.61 ETC 167.26 CLP-156.07

PLANETOCENTRIC CONIC

C3 23.239 VHL 4.821 DLA 34.59 RAL 33.40 RAD 6567.9 VEL 12.026 PTH 2.15 VHP 5.519 OPA -2.27 RAP 9.49 ECC 1.3825
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.25 23 22 42 4061.92 -22.62 173.93 266.25 63.10 24 30 24 3461.9 -26.04 166.41
 110.75 4 34 34 3083.25 -22.61 100.82 266.24 63.09 5 25 58 2483.3 -26.03 93.30
 69.25 23 22 42 4061.92 -22.62 173.93 266.25 63.10 24 30 24 3461.9 -26.04 166.41
 110.75 4 34 34 3083.25 -22.61 100.82 266.24 63.09 5 25 58 2483.3 -26.03 93.30
 69.25 23 22 42 4061.92 -22.62 173.93 266.25 63.10 24 30 24 3461.9 -26.04 166.41
 110.75 4 34 34 3083.25 -22.61 100.82 266.24 63.09 5 25 58 2483.3 -26.03 93.30

DIFFERENTIAL CORRECTIONS

TOE 2.7219 TRA 3.3692 TC3-2.5996 BAU .0000
 RDE .3710 RRA .0217 RC3 .0776 FAU .04389
 FDE 2.3936 FRA 3.5402 FC3-1.6352 BSP 20576
 BOE 2.7471 BRA 3.3693 BC3 2.6007 FSP -1890

MID-COURSE EXECUTION ACCURACY

SGT 6356.8 SGR 448.3 SG3 523.4
 RRT .4883 RRF .4774 RTF .9872
 SGB 6372.6 R23 -.0073 R13 .9872
 SG1 6360.6 SG2 391.0 THA 1.98

ORBIT DETERMINATION ACCURACY

ST 3549.8 SR 441.1 SS 1541.4
 CRT .9198 CRS -.8900 CST -.9975
 LSA 3689.7 MSA 202.6 SSA 13.1
 EL1 3572.9 EL2 172.0 ALF 6.53

LAUNCH DATE DEC 15 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 577.380

RL 147.23 LAL .00 LOL 83.09 VL 27.570 GAL 7.24 AZL 86.59 MCA 263.89 SMA 127.29 ECC .20018 INC 3.4135 V1 30.259
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.375 GAP 8.01 AZP 90.36 TAL 148.20 TAP 52.09 RCA 101.81 APO 152.77 V2 34.829
 RC 132.989 GL 19.15 GP -2.54 ZAL 42.84 ZAP 157.66 ETS 355.12 ZAE 125.02 ETE 180.58 ZAC 103.97 ETC 167.29 CLP-157.80

PLANETOCENTRIC CONIC

C3 24.654 VHL 4.965 DLA 34.19 RAL 34.76 RAD 6568.0 VEL 12.084 PTH 2.16 VHP 5.778 OPA -1.54 RAP 10.74 ECC 1.4057
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.98 23 32 27 4063.22 -21.94 173.86 268.43 63.09 24 40 11 3463.2 -25.36 166.18
 110.02 4 35 40 3110.91 -21.92 102.81 268.42 63.08 5 27 31 2510.9 -25.35 95.13
 69.98 23 32 27 4063.22 -21.94 173.86 268.43 63.09 24 40 11 3463.2 -25.36 166.18
 110.02 4 35 40 3110.91 -21.92 102.81 268.42 63.08 5 27 31 2510.9 -25.35 95.13
 69.98 23 32 27 4063.22 -21.94 173.86 268.43 63.09 24 40 11 3463.2 -25.36 166.18
 110.02 4 35 40 3110.91 -21.92 102.81 268.42 63.08 5 27 31 2510.9 -25.35 95.13

DIFFERENTIAL CORRECTIONS

TOE 2.7627 TRA 3.8002 TC3-2.4810 BAU .8181
 RDE .3850 RRA .0244 RC3 .0734 FAU .03919
 FDE 2.2229 FRA 3.4413 FC3-1.3763 BSP 20926
 BOE 2.7894 BRA 3.8003 BC3 2.4821 FSP -1754

MID-COURSE EXECUTION ACCURACY

SGT 6439.0 SGR 451.5 SG3 484.9
 RRT .4842 RRF .4749 RTF .9869
 SGB 6454.8 R23 -.0054 R13 .9867
 SG1 6442.7 SG2 394.8 THA 1.95

ORBIT DETERMINATION ACCURACY

ST 3526.9 SR 444.4 SS 1468.7
 CRT .9134 CRS -.8828 CST -.9975
 LSA 3640.7 MSA 206.9 SSA 13.1
 EL1 3550.3 EL2 179.7 ALF 6.58

LAUNCH DATE DEC 15 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 583.156

RL 147.23 LAL .00 LOL 83.09 VL 27.550 GAL 7.63 AZL 86.61 MCA 267.06 SMA 127.15 ECC .20534 INC 3.3915 V1 30.259
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.367 GAP 8.48 AZP 90.17 TAL 147.32 TAP 54.38 RCA 101.04 APO 153.26 V2 34.837
 RC 135.313 GL 18.38 GP -2.41 ZAL 41.70 ZAP 159.32 ETS 354.99 ZAE 124.39 ETE 180.47 ZAC 105.41 ETC 167.31 CLP-159.45

PLANETOCENTRIC CONIC

C3 26.245 VHL 5.123 DLA 33.79 RAL 36.12 RAD 6568.1 VEL 12.150 PTH 2.18 VHP 6.049 OPA -.80 RAP 12.06 ECC 1.4319
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.75 23 42 30 4064.44 -21.22 173.36 270.66 63.07 24 50 15 3464.4 -24.66 165.94
 109.25 4 36 24 3140.55 -21.21 104.53 270.65 63.06 5 28 45 2540.6 -24.65 97.10
 70.75 23 42 30 4064.44 -21.22 173.36 270.66 63.07 24 50 15 3464.4 -24.66 165.94
 109.25 4 36 24 3140.55 -21.21 104.53 270.65 63.06 5 28 45 2540.6 -24.65 97.10
 110.00 5 20 22 3006.25 -25.00 96.04 272.62 65.89 6 10 28 2406.2 -28.04 88.18
 110.00 4 1 39 3246.75 -17.53 110.69 268.54 60.17 4 55 46 2646.7 -21.36 103.85

DIFFERENTIAL CORRECTIONS

TOE 2.8022 TRA 3.8448 TC3-2.3532 BAU .8260
 RDE .4000 RRA .0288 RC3 .0684 FAU .03486
 FDE 2.0687 FRA 3.3526 FC3-1.1500 BSP 21244
 BOE 2.8306 BRA 3.8449 BC3 2.3542 FSP -1630

MID-COURSE EXECUTION ACCURACY

SGT 6511.9 SGR 454.5 SG3 449.7
 RRT .4843 RRF .4764 RTF .9864
 SGB 6527.7 R23 -.0035 R13 .9864
 SG1 6515.6 SG2 397.4 THA 1.94

ORBIT DETERMINATION ACCURACY

ST 3498.1 SR 447.5 SS 1401.1
 CRT .9070 CRS -.8758 CST -.9976
 LSA 3788.8 MSA 211.3 SSA 13.0
 EL1 3521.6 EL2 187.2 ALF 6.64

LAUNCH DATE DEC 15 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 588.885

RL 147.23 LAL .00 LOL 83.09 VL 27.529 GAL 8.05 AZL 86.63 MCA 270.23 SMA 127.01 ECC .21093 INC 3.3696 V1 30.259
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.360 GAP 8.97 AZP 89.99 TAL 146.43 TAP 56.66 RCA 100.22 APO 153.80 V2 34.846
 RC 137.625 GL 17.61 GP -2.30 ZAL 40.57 ZAP 160.91 ETS 354.83 ZAE 123.81 ETE 180.38 ZAC 106.92 ETC 167.31 CLP-161.04

PLANETOCENTRIC CONIC

C3 28.037 VHL 5.295 DLA 33.37 RAL 37.46 RAD 6568.1 VEL 12.223 PTH 2.20 VHP 6.335 OPA -.04 RAP 13.46 ECC 1.4614
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.56 23 52 53 4065.44 -20.48 173.04 272.94 63.06 25 0 38 3465.4 -23.92 165.65
 108.44 4 36 44 3172.38 -20.46 106.59 272.93 63.05 5 29 36 2572.4 -23.91 99.21
 71.56 23 52 53 4065.44 -20.48 173.04 272.94 63.06 25 0 38 3465.4 -23.92 165.65
 108.44 4 36 44 3172.38 -20.46 106.59 272.93 63.05 5 29 36 2572.4 -23.91 99.21
 110.00 5 42 43 2970.14 -25.98 93.69 275.73 66.96 6 32 13 2370.1 -28.87 85.70
 110.00 3 50 0 3315.67 -15.15 114.61 269.84 58.98 4 45 16 2715.7 -19.15 107.78

DIFFERENTIAL CORRECTIONS

TOE 2.8443 TRA 4.1076 TC3-2.2137 BAU .8301
 RDE .4160 RRA .0349 RC3 .0630 FAU .03071
 FDE 1.9327 FRA 3.2768 FC3 -.9484 BSP 21451
 BOE 2.8746 BRA 4.1077 BC3 2.2146 FSP -1509

MID-COURSE EXECUTION ACCURACY

SGT 6579.8 SGR 457.3 SG3 418.0
 RRT .4884 RRF .4819 RTF .9860
 SGB 6595.7 R23 -.0016 R13 .9860
 SG1 6583.6 SG2 398.8 THA 1.95

ORBIT DETERMINATION ACCURACY

ST 3468.0 SR 450.3 SS 1340.4
 CRT .9008 CRS -.8692 CST -.9976
 LSA 3739.0 MSA 215.4 SSA 13.0
 EL1 3491.7 EL2 194.2 ALF 6.69

LAUNCH DATE DEC 15 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 27.508 GAL 8.51 AZL 86.65 HCA 273.41 SMA 126.87 ECC .21698 INC 3.3477 V1 30.259
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.353 GAP 9.49 AZP 89.80 TAL 145.53 TAP 58.93 RCA 99.34 APO 154.40 V2 34.855
 RC 139.923 GL 16.84 GP -2.19 ZAL 39.45 ZAP 162.43 ETS 354.62 ZAE 123.28 ETE 180.31 ZAC 108.49 ETC 167.30 CLP-162.57

PLANETOCENTRIC CONIC
 C3 30.056 VHL 5.482 DLA 32.94 RAL 38.78 RAD 6568.2 VEL 12.306 PTH 2.22 VHP 6.636 DPA .73 RAP 14.92 ECC 1.4947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.42 0 7 32 4066.05 -19.70 172.66 275.25 63.05 1 15 18 3466.1 -23.15 165.33
 107.58 4 36 34 3206.56 -19.69 108.80 275.25 63.04 5 30 0 2606.6 -23.14 101.47
 72.42 0 7 32 4066.05 -19.70 172.66 275.25 63.05 1 15 18 3466.1 -23.15 165.33
 107.58 4 36 34 3206.56 -19.69 108.80 275.25 63.04 5 30 0 2606.6 -23.14 101.47
 110.00 6 1 11 2946.38 -26.61 92.13 278.69 67.70 6 50 18 2346.4 -29.39 84.05
 110.00 3 42 5 3374.23 -13.07 117.88 271.36 58.13 4 38 19 2774.2 -17.19 111.19

DIFFERENTIAL CORRECTIONS
 TDE 2.8821 TRA 4.3826 TC3-2.0740 BAU .8337 SGT 6635.5 SGR 459.4 SG3 388.7 ST 3429.0 SR 452.3 SS 1282.1
 RDE .4325 RRA .0426 RC3 .0571 FAU .02705 RRT .4949 RRF .4895 RTF .9856 CRT .8946 CRS -.8626 CST -.9977
 FDE 1.8065 FRA 3.2061 FC3 -.7793 BSP 21719 SGB 6651.4 R23 -.0000 R13 .9856 LSA 3682.1 MSA 219.5 SSA 12.9
 BDE 2.9144 BRA 4.3828 BC3 2.0748 FSP -1405 SG1 6639.4 SG2 398.9 THA 1.97 EL1 3452.9 EL2 200.7 ALF 6.75

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 15 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 27.487 GAL 8.99 AZL 86.67 HCA 276.58 SMA 126.73 ECC .22355 INC 3.3256 V1 30.259
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.347 GAP 10.03 AZP 89.62 TAL 144.63 TAP 61.21 RCA 98.40 APO 155.06 V2 34.865
 RC 142.207 GL 16.08 GP -2.10 ZAL 38.33 ZAP 163.91 ETS 354.36 ZAE 122.80 ETE 180.26 ZAC 110.11 ETC 167.28 CLP-164.04

PLANETOCENTRIC CONIC
 C3 32.338 VHL 5.687 DLA 32.50 RAL 40.08 RAD 6568.3 VEL 12.398 PTH 2.24 VHP 6.955 DPA 1.51 RAP 16.43 ECC 1.5322
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.33 0 18 39 4066.10 -18.89 172.23 277.61 63.05 1 26 25 3466.1 -22.36 164.94
 106.67 4 35 50 3243.30 -18.88 111.19 277.60 63.04 5 29 54 2643.3 -22.34 103.90
 73.33 0 18 39 4066.10 -18.89 172.23 277.61 63.05 1 26 25 3466.1 -22.36 164.94
 106.67 4 35 50 3243.30 -18.88 111.19 277.60 63.04 5 29 54 2643.3 -22.34 103.90
 110.00 6 17 39 2929.29 -27.04 90.99 281.61 68.25 7 6 28 2329.3 -29.75 82.84
 110.00 3 36 1 3428.10 -11.11 120.82 273.01 57.46 4 33 9 2828.1 -15.33 114.25

DIFFERENTIAL CORRECTIONS
 TDE 2.9207 TRA 4.6755 TC3-1.9299 BAU .8347 SGT 6684.1 SGR 460.9 SG3 361.8 ST 3387.0 SR 453.4 SS 1228.7
 RDE .4496 RRA .0520 RC3 .0510 FAU .02365 RRT .5040 RRF .4996 RTF .9853 CRT .8883 CRS -.8562 CST -.9978
 FDE 1.6931 FRA 3.1443 FC3 -.6332 BSP 21961 SGB 6700.0 R23 .0014 R13 .9854 LSA 3624.5 MSA 223.3 SSA 12.7
 BDE 2.9551 BRA 4.6758 BC3 1.9306 FSP -1309 SG1 6688.2 SG2 397.9 THA 2.00 EL1 3411.0 EL2 206.7 ALF 6.81

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 15 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 27.465 GAL 9.52 AZL 86.70 HCA 279.76 SMA 126.59 ECC .23068 INC 3.3032 V1 30.259
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.340 GAP 10.60 AZP 89.44 TAL 143.74 TAP 63.49 RCA 97.38 APO 155.79 V2 34.875
 RC 144.478 GL 15.31 GP -2.01 ZAL 37.23 ZAP 165.34 ETS 354.02 ZAE 122.34 ETE 180.22 ZAC 111.77 ETC 167.23 CLP-165.48

PLANETOCENTRIC CONIC
 C3 34.923 VHL 5.910 DLA 32.06 RAL 41.36 RAD 6568.4 VEL 12.502 PTH 2.26 VHP 7.293 DPA 2.30 RAP 17.98 ECC 1.5747
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.31 0 30 13 4065.32 -18.06 171.73 280.00 63.06 1 37 59 3465.3 -21.53 164.48
 105.69 4 34 27 3282.86 -18.04 113.76 279.99 63.05 5 29 10 2682.9 -21.51 106.52
 74.31 0 30 13 4065.32 -18.06 171.73 280.00 63.06 1 37 59 3465.3 -21.53 164.48
 105.69 4 34 27 3282.86 -18.04 113.76 279.99 63.05 5 29 10 2682.9 -21.51 106.52
 110.00 6 32 47 2916.72 -27.36 90.15 284.51 68.66 7 21 24 2316.7 -30.00 81.96
 110.00 3 31 4 3479.45 -9.22 123.59 274.76 56.94 4 29 3 2879.4 -13.51 117.12

DIFFERENTIAL CORRECTIONS
 TDE 2.9600 TRA 4.9879 TC3-1.7827 BAU .8326 SGT 6725.6 SGR 461.9 SG3 337.3 ST 3342.2 SR 453.6 SS 1179.5
 RDE .4673 RRA .0632 RC3 .0451 FAU .02048 RRT .5153 RRF .5116 RTF .9851 CRT .8821 CRS -.8500 CST -.9979
 FDE 1.5907 FRA 3.0907 FC3 -.5078 BSP 22170 SGB 6741.4 R23 .0026 R13 .9851 LSA 3565.9 MSA 226.7 SSA 12.5
 BDE 2.9967 BRA 4.9883 BC3 1.7832 FSP -1220 SG1 6729.8 SG2 395.6 THA 2.03 EL1 3366.2 EL2 212.1 ALF 6.85

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 15 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC
 RL 147.23 LAL .00 LOL 83.09 VL 27.444 GAL 10.08 AZL 86.72 HCA 282.94 SMA 126.44 ECC .23844 INC 3.2804 V1 30.259
 RP 108.63 LAP -3.20 LOP 6.04 VP 37.334 GAP 11.20 AZP 89.26 TAL 142.85 TAP 65.78 RCA 96.29 APO 156.59 V2 34.885
 RC 146.734 GL 14.55 GP -1.94 ZAL 36.14 ZAP 166.73 ETS 353.59 ZAE 121.91 ETE 180.19 ZAC 113.48 ETC 167.16 CLP-166.87

PLANETOCENTRIC CONIC
 C3 37.857 VHL 6.153 DLA 31.60 RAL 42.61 RAD 6568.5 VEL 12.618 PTH 2.29 VHP 7.653 DPA 3.10 RAP 19.58 ECC 1.6230
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.36 0 42 20 4063.37 -17.20 171.12 282.42 63.08 1 50 3 3463.4 -20.67 163.91
 104.64 4 32 18 3325.57 -17.18 116.55 282.41 63.07 5 27 43 2725.6 -20.66 109.34
 75.36 0 42 20 4063.37 -17.20 171.12 282.42 63.08 1 50 3 3463.4 -20.67 163.91
 104.64 4 32 18 3325.57 -17.18 116.55 282.41 63.07 5 27 43 2725.6 -20.66 109.34
 110.00 6 46 57 2907.59 -27.58 89.53 287.41 68.96 7 35 24 2307.6 -30.19 81.31
 110.00 3 26 51 3529.35 -7.35 126.26 276.57 56.52 4 25 41 2929.3 -11.71 119.87

DIFFERENTIAL CORRECTIONS
 TDE 3.0050 TRA 5.3256 TC3-1.6296 BAU .8250 SGT 6764.1 SGR 462.4 SG3 315.0 ST 3299.3 SR 452.9 SS 1136.3
 RDE .4856 RRA .0765 RC3 .0396 FAU .01739 RRT .5290 RRF .5261 RTF .9850 CRT .8761 CRS -.8444 CST -.9980
 FDE 1.5012 FRA 3.0475 FC3 -.3976 BSP 22264 SGB 6779.9 R23 .0038 R13 .9850 LSA 3511.2 MSA 229.5 SSA 12.3
 BDE 3.0440 BRA 5.3262 BC3 1.6301 FSP -1133 SG1 6768.5 SG2 392.2 THA 2.08 EL1 3323.2 EL2 216.7 ALF 6.89

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 16 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 24 1969

HELIOCENTRIC CONIC

DISTANCE 136.446

RL 147.22 LAL .00 LOL 84.11 VL 17.750 GAL 20.90 AZL 86.16 HCA 43.80 SMA 89.20 ECC .70467 INC 3.8378 V1 30.262
 RP 107.48 LAP 2.66 LOP 127.85 VP 31.333 GAP -43.54 AZP 87.23 TAL 170.49 TAP 214.29 RCA 26.34 APO 152.05 V2 35.258
 RC 72.381 GL 4.18 GP .60 ZAL 64.76 ZAP 30.19 ETS 180.54 ZAE 139.22 ETE 189.29 ZAC 73.08 ETC 164.81 CLP 30.18

PLANETOCENTRIC CONIC

C3 231.468 VHL 15.214 DLA 11.47 RAL 16.31 RAD 6571.3 VEL 18.783 PTH 3.06 VHP 24.954 DPA -11.10 RAP 340.78 ECC 4.8094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 19 15 3118.93 -27.06 105.01 282.77 81.31 6 11 14 2518.9 -27.98 96.46
 90.00 20 13 46 5034.82 23.42 221.92 271.92 73.61 21 37 41 4434.8 20.95 214.11
 100.00 6 46 23 2837.91 -28.74 84.63 283.06 81.42 7 33 41 2237.9 -29.63 75.93
 100.00 21 29 19 4791.07 25.05 203.46 271.39 73.14 22 49 10 4191.1 22.51 195.59
 110.00 8 7 44 2583.34 -33.28 66.08 283.84 81.68 8 50 48 1983.3 -34.07 56.93
 110.00 22 24 27 4618.41 29.42 188.81 269.84 71.76 23 41 26 4018.4 26.65 180.72

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7266 TRA-1.8339 TC3 -.1135 BAU .3546 SGT 831.1 SGR 449.0 SG3 28.3 ST 346.0 SR 409.6 SS 337.1
 RDE -1.0775 RRA .4841 RC3 -.0159 FAU .01252 RRT -.0090 RRF .0058 RTF -.6337 CRT .7004 CRS .7872 CST .9899
 FDE .3586 FRA .6821 FC3 -.0468 BSP 2204 SGB 944.7 R23 .0022 R13 .6337 LSA 592.0 MSA 224.6 SSA 13.8
 BDE 1.2997 BRA 1.8968 BC3 .1146 FSP -60 SG1 831.1 SG2 449.0 THA 179.61 EL1 495.9 EL2 204.0 ALF 51.81

LAUNCH DATE DEC 16 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 142.287

RL 147.22 LAL .00 LOL 84.11 VL 18.458 GAL 19.98 AZL 86.21 HCA 47.05 SMA 90.76 ECC .67717 INC 3.7870 V1 30.262
 RP 107.48 LAP 2.77 LOP 131.10 VP 31.740 GAP -41.53 AZP 87.42 TAL 169.67 TAP 216.73 RCA 29.30 APO 152.22 V2 35.259
 RC 70.281 GL 4.53 GP .61 ZAL 63.57 ZAP 28.66 ETS 180.73 ZAE 139.57 ETE 189.83 ZAC 74.73 ETC 165.03 CLP 28.65

PLANETOCENTRIC CONIC

C3 210.880 VHL 14.522 DLA 12.25 RAL 17.32 RAD 6571.2 VEL 18.226 PTH 3.02 VHP 23.981 DPA -10.45 RAP 342.39 ECC 4.4705
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 16 45 3131.47 -26.92 105.90 283.09 80.88 6 8 56 2531.5 -27.91 97.37
 90.00 20 24 19 4995.11 22.63 219.27 271.76 72.51 21 47 34 4395.1 20.02 211.57
 100.00 6 44 21 2848.92 -28.63 85.42 283.39 81.02 7 31 50 2248.9 -29.58 76.75
 100.00 21 39 23 4752.89 24.28 200.89 271.18 72.00 22 58 36 4152.9 21.59 193.12
 110.00 8 6 45 2591.11 -33.20 66.67 284.22 81.34 8 49 56 1991.1 -34.04 57.53
 110.00 22 33 29 4583.46 28.65 186.38 269.52 70.51 23 49 52 3983.5 25.73 178.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7276 TRA-1.8428 TC3 -.1205 BAU .3433 SGT 870.8 SGR 453.9 SG3 30.7 ST 363.8 SR 414.4 SS 352.8
 RDE -1.0408 RRA .4614 RC3 -.0178 FAU .01266 RRT -.0066 RRF .0036 RTF -.6530 CRT .6993 CRS .7881 CST .9896
 FDE .3728 FRA .7070 FC3 -.0520 BSP 2329 SGB 982.0 R23 .0023 R13 .6530 LSA 612.4 MSA 230.7 SSA 14.0
 BDE 1.2699 BRA 1.8997 BC3 .1218 FSP -66 SG1 870.8 SG2 453.9 THA 179.73 EL1 509.2 EL2 211.6 ALF 50.29

LAUNCH DATE DEC 16 1968

FLIGHT TIME 74.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 148.226

RL 147.22 LAL .00 LOL 84.11 VL 19.121 GAL 19.11 AZL 86.26 HCA 50.30 SMA 92.33 ECC .65014 INC 3.7412 V1 30.262
 RP 107.48 LAP 2.88 LOP 134.35 VP 32.129 GAP -39.62 AZP 87.61 TAL 168.87 TAP 219.17 RCA 32.30 APO 152.37 V2 35.259
 RC 68.209 GL 4.88 GP .63 ZAL 62.43 ZAP 27.15 ETS 180.95 ZAE 140.03 ETE 190.40 ZAC 76.41 ETC 165.23 CLP 27.14

PLANETOCENTRIC CONIC

C3 192.224 VHL 13.864 DLA 13.01 RAL 18.27 RAD 6571.0 VEL 17.707 PTH 2.98 VHP 23.043 DPA -9.78 RAP 344.02 ECC 4.1635
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 1 3143.21 -26.79 106.73 283.29 80.48 6 6 24 2543.2 -27.84 98.22
 90.00 20 34 39 4954.83 21.78 216.62 271.53 71.45 21 57 14 4354.8 19.05 209.02
 100.00 6 42 7 2859.10 -28.52 86.16 283.61 80.64 7 29 46 2259.1 -29.52 77.50
 100.00 21 49 14 4714.17 23.44 198.32 270.92 70.90 23 7 48 4114.2 20.61 190.66
 110.00 8 5 34 2597.99 -33.13 67.20 284.48 81.04 8 48 52 1998.0 -34.01 58.07
 110.00 22 42 17 4548.04 27.83 183.95 269.16 69.29 23 58 5 3948.0 24.75 176.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7268 TRA-1.8492 TC3 -.1270 BAU .3304 SGT 910.8 SGR 458.0 SG3 33.2 ST 381.7 SR 418.7 SS 368.7
 RDE -1.0040 RRA .4385 RC3 -.0199 FAU .01284 RRT -.0044 RRF .0012 RTF -.6717 CRT .6978 CRS .7890 CST .9892
 FDE .3871 FRA .7320 FC3 -.0578 BSP 2511 SGB 1019.5 R23 .0027 R13 .6717 LSA 633.0 MSA 236.6 SSA 14.2
 BDE 1.2395 BRA 1.9005 BC3 .1286 FSP -73 SG1 910.8 SG2 458.0 THA 179.83 EL1 522.5 EL2 219.1 ALF 48.78

LAUNCH DATE DEC 16 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 154.259

RL 147.22 LAL .00 LOL 84.11 VL 19.740 GAL 18.28 AZL 86.30 HCA 53.55 SMA 93.91 ECC .62367 INC 3.6995 V1 30.262
 RP 107.48 LAP 2.98 LOP 137.60 VP 32.501 GAP -37.82 AZP 87.80 TAL 168.09 TAP 221.63 RCA 35.34 APO 152.48 V2 35.257
 RC 66.167 GL 5.24 GP .66 ZAL 61.35 ZAP 25.66 ETS 181.18 ZAE 140.60 ETE 191.02 ZAC 78.11 ETC 165.41 CLP 25.65

PLANETOCENTRIC CONIC

C3 175.302 VHL 13.240 DLA 13.76 RAL 19.17 RAD 6570.9 VEL 17.223 PTH 2.94 VHP 22.138 DPA -9.09 RAP 345.66 ECC 3.8850
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 4 3154.17 -26.67 107.51 283.37 80.11 6 3 38 2554.2 -27.76 99.02
 90.00 20 44 47 4913.94 20.87 213.97 271.25 70.42 22 6 41 4313.9 18.01 206.46
 100.00 6 39 40 2868.46 -28.41 86.84 283.71 80.30 7 27 28 2268.5 -29.46 78.19
 100.00 21 58 53 4674.89 22.54 195.75 270.60 69.83 23 16 48 4074.9 19.59 188.19
 110.00 8 4 11 2604.00 -33.06 67.66 284.61 80.78 8 47 35 2004.0 -33.98 58.54
 110.00 22 50 51 4512.11 26.94 181.54 268.74 68.11 24 6 3 3912.1 23.72 173.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7291 TRA-1.8577 TC3 -.1340 BAU .3184 SGT 954.2 SGR 461.5 SG3 36.0 ST 401.6 SR 422.3 SS 385.3
 RDE -.9674 RRA .4158 RC3 -.0221 FAU .01302 RRT -.0010 RRF -.0017 RTF -.6895 CRT .6975 CRS .7902 CST .9889
 FDE .4022 FRA .7577 FC3 -.0643 BSP 2635 SGB 1060.0 R23 .0026 R13 .6895 LSA 655.2 MSA 242.0 SSA 14.4
 BDE 1.2113 BRA 1.9037 BC3 .1359 FSP -80 SG1 954.2 SG2 461.5 THA 179.96 EL1 537.1 EL2 226.3 ALF 47.06

LAUNCH DATE DEC 16 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

RL 147.22 LAL .00 LOL 84.11 VL 20.320 GAL 17.48 AZL 86.34 HCA 56.79 SMA 95.48 ECC .59785 INC 3.6613 V1 30.262
 RP 107.49 LAP 3.06 LOP 140.85 VP 32.854 GAP -36.10 AZP 87.99 TAL 167.32 TAP 224.12 RCA 38.40 APO 152.56 V2 35.256
 RC 64.161 GL 5.62 GP .68 ZAL 60.33 ZAP 24.19 ETS 181.43 ZAE 141.28 ETE 191.68 ZAC 79.82 ETC 165.59 CLP 24.18

PLANETOCENTRIC CONIC

C3 159.936 VHL 12.647 CLA 14.50 RAL 20.02 RAD 6570.7 VEL 16.771 PTH 2.90 VHP 21.263 DPA -8.39 RAP 347.31 ECC 3.6321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 7 52 3164.41 -26.55 108.24 283.34 79.76 6 0 36 2564.4 -27.69 99.76
 90.00 20 54 45 4872.40 19.90 211.31 270.91 69.43 22 15 58 4272.4 16.92 203.90
 100.00 6 36 58 2877.04 -28.31 87.46 283.69 79.99 7 24 55 2277.0 -29.41 78.82
 100.00 22 8 20 4635.01 21.58 193.17 270.23 68.80 23 25 35 4035.0 18.51 185.73
 110.00 8 2 35 2609.16 -33.00 68.05 284.63 80.55 8 46 5 2009.2 -33.96 58.94
 110.00 22 59 12 4475.66 25.99 179.13 268.27 66.97 24 13 48 3875.7 22.64 171.57

DIFFERENTIAL CORRECTIONS

TDE -.7292 TRA-1.8628 TC3 -.1403 BAU .3046
 RDE -.9309 RRA .3932 RC3 -.0246 FAU .01325
 FDE .4175 FRA .7836 FC3 -.0717 BSP 2823
 BDE 1.1825 BRA 1.9038 BC3 .1425 FSP -88

MID-COURSE EXECUTION ACCURACY

SGT 997.5 SGR 464.3 SG3 38.9
 RRT .0021 RRF -.0050 RTF -.7068
 SGB 1100.3 R23 -.0030 R13 -.7068
 SG1 997.5 SG2 464.3 THA .07

ORBIT DETERMINATION ACCURACY

ST 421.5 SR 425.3 SS 402.1
 CRT .6968 CRS .7915 CST .9886
 LSA 677.5 MSA 247.0 SSA 14.6
 EL1 551.5 EL2 233.1 ALF 45.38

LAUNCH DATE DEC 16 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

RL 147.22 LAL .00 LOL 84.11 VL 20.863 GAL 16.71 AZL 86.37 HCA 60.04 SMA 97.04 ECC .57272 INC 3.6257 V1 30.262
 RP 107.50 LAP 3.14 LOP 144.10 VP 33.190 GAP -34.46 AZP 88.19 TAL 166.58 TAP 226.62 RCA 41.46 APO 152.61 V2 35.253
 RC 62.196 GL 6.00 GP .70 ZAL 59.37 ZAP 22.74 ETS 181.70 ZAE 142.07 ETE 192.39 ZAC 81.55 ETC 165.75 CLP 22.73

PLANETOCENTRIC CONIC

C3 145.973 VHL 12.082 CLA 15.23 RAL 20.81 RAD 6570.6 VEL 16.349 PTH 2.86 VHP 20.418 DPA -7.67 RAP 348.97 ECC 3.4023
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 24 3173.98 -26.43 108.91 283.18 79.44 5 57 18 2574.0 -27.62 100.45
 90.00 21 4 33 4830.18 18.87 208.64 270.53 68.49 22 25 3 4230.2 15.78 201.33
 100.00 6 34 3 2884.89 -28.22 88.02 283.55 79.71 7 22 8 2284.9 -29.35 79.40
 100.00 22 17 35 4594.50 20.56 190.60 269.81 67.81 23 34 10 3994.5 17.37 183.25
 110.00 8 0 47 2613.50 -32.96 68.38 284.52 80.36 8 44 21 2013.5 -33.93 59.27
 110.00 23 7 20 4438.66 24.98 176.73 267.76 65.87 24 21 19 3838.7 21.51 169.30

DIFFERENTIAL CORRECTIONS

TDE -.7299 TRA-1.8673 TC3 -.1464 BAU .2905
 RDE -.8946 RRA .3707 RC3 -.0272 FAU .01350
 FDE .4335 FRA .8101 FC3 -.0800 BSP 3012
 BDE 1.1546 BRA 1.9038 BC3 .1489 FSP -97

MID-COURSE EXECUTION ACCURACY

SGT 1042.7 SGR 466.4 SG3 42.2
 RRT .0058 RRF -.0087 RTF -.7235
 SGB 1142.2 R23 -.0034 R13 -.7235
 SG1 1042.7 SG2 466.4 THA .19

ORBIT DETERMINATION ACCURACY

ST 442.4 SR 427.8 SS 419.6
 CRT .6965 CRS .7930 CST .9882
 LSA 700.9 MSA 251.5 SSA 14.8
 EL1 566.9 EL2 239.5 ALF 43.62

LAUNCH DATE DEC 16 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

RL 147.22 LAL .00 LOL 84.11 VL 21.371 GAL 15.97 AZL 86.41 HCA 63.29 SMA 98.58 ECC .54835 INC 3.5924 V1 30.262
 RP 107.51 LAP 3.21 LOP 147.35 VP 33.508 GAP -32.89 AZP 88.38 TAL 165.85 TAP 229.14 RCA 44.53 APO 152.64 V2 35.250
 RC 60.278 GL 6.40 GP .73 ZAL 58.47 ZAP 21.29 ETS 182.01 ZAE 142.98 ETE 193.16 ZAC 83.29 ETC 165.90 CLP 21.28

PLANETOCENTRIC CONIC

C3 133.278 VHL 11.545 CLA 15.95 RAL 21.55 RAD 6570.4 VEL 15.957 PTH 2.82 VHP 19.602 DPA -6.93 RAP 350.63 ECC 3.1934
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 0 40 3182.94 -26.32 109.54 282.92 79.15 5 53 43 2582.9 -27.55 101.09
 90.00 21 14 11 4787.26 17.78 205.97 270.09 67.59 22 33 58 4187.3 14.58 198.75
 100.00 6 30 52 2892.07 -28.13 88.53 283.30 79.45 7 19 4 2292.1 -29.30 79.93
 100.00 22 26 40 4553.36 19.48 188.02 269.33 66.87 23 42 34 3953.4 16.18 180.78
 110.00 7 58 46 2617.07 -32.91 68.65 284.30 80.21 8 42 23 2017.1 -33.92 59.55
 110.00 23 15 16 4401.13 23.91 174.33 267.19 64.81 24 28 37 3801.1 20.32 167.03

DIFFERENTIAL CORRECTIONS

TDE -.7332 TRA-1.8729 TC3 -.1527 BAU .2772
 RDE -.8586 RRA .3485 RC3 -.0299 FAU .01376
 FDE .4505 FRA .8375 FC3 -.0894 BSP 3149
 BDE 1.1291 BRA 1.9051 BC3 .1556 FSP -106

MID-COURSE EXECUTION ACCURACY

SGT 1091.4 SGR 467.7 SG3 45.7
 RRT .0108 RRF -.0131 RTF -.7391
 SGB 1187.4 R23 -.0033 R13 -.7392
 SG1 1091.5 SG2 467.7 THA .33

ORBIT DETERMINATION ACCURACY

ST 465.4 SR 429.5 SS 437.9
 CRT .6974 CRS .7948 CST .9881
 LSA 726.2 MSA 255.4 SSA 14.9
 EL1 583.9 EL2 245.4 ALF 41.71

LAUNCH DATE DEC 16 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

RL 147.22 LAL .00 LOL 84.11 VL 21.846 GAL 15.26 AZL 86.44 HCA 66.53 SMA 100.11 ECC .52477 INC 3.5610 V1 30.262
 RP 107.52 LAP 3.27 LOP 150.60 VP 33.809 GAP -31.40 AZP 88.58 TAL 165.16 TAP 231.69 RCA 47.58 APO 152.65 V2 35.246
 RC 58.412 GL 6.81 GP .76 ZAL 57.63 ZAP 19.87 ETS 182.34 ZAE 144.03 ETE 194.00 ZAC 85.05 ETC 166.03 CLP 19.85

PLANETOCENTRIC CONIC

C3 121.729 VHL 11.033 CLA 16.65 RAL 22.24 RAD 6570.3 VEL 15.591 PTH 2.78 VHP 18.812 DPA -6.19 RAP 352.29 ECC 3.0033
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 39 3191.35 -26.21 110.14 282.53 78.87 5 49 50 2591.4 -27.48 101.70
 90.00 21 23 40 4743.60 16.62 203.28 269.60 66.74 22 42 44 4143.6 13.33 196.15
 100.00 6 27 25 2898.62 -28.05 89.00 282.93 79.22 7 15 44 2298.6 -29.25 80.41
 100.00 22 35 35 4511.56 18.34 185.44 268.81 65.97 23 50 46 3911.6 14.94 178.29
 110.00 7 56 30 2619.90 -32.88 68.86 283.96 80.08 8 40 10 2019.9 -33.90 59.77
 110.00 23 22 59 4363.05 22.79 171.95 266.58 63.81 24 35 42 3763.0 19.08 164.77

DIFFERENTIAL CORRECTIONS

TDE -.7347 TRA-1.8752 TC3 -.1579 BAU .2625
 RDE -.8230 RRA .3266 RC3 -.0329 FAU .01408
 FDE .4681 FRA .8654 FC3 -.1001 BSP 3345
 BDE 1.1032 BRA 1.9034 BC3 .1613 FSP -117

MID-COURSE EXECUTION ACCURACY

SGT 1140.2 SGR 468.3 SG3 49.5
 RRT .0157 RRF -.0180 RTF -.7543
 SGB 1232.6 R23 -.0037 R13 -.7543
 SG1 1140.3 SG2 468.2 THA .45

ORBIT DETERMINATION ACCURACY

ST 488.5 SR 430.7 SS 456.7
 CRT .6982 CRS .7967 CST .9878
 LSA 752.0 MSA 258.8 SSA 15.1
 EL1 601.1 EL2 250.6 ALF 39.87

LAUNCH DATE DEC 16 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 22.291 GAL 14.58 AZL 86.47 MCA 69.78 SMA 101.62 ECC .50201 INC 3.5311 V1 30.262
 RP 107.53 LAP 3.31 LOP 153.85 VP 34.093 GAP -29.97 AZP 88.78 TAL 164.49 TAP 234.27 RCA 50.60 APO 152.63 V2 35.241
 RC 56.605 GL 7.24 GP .79 ZAL 56.85 ZAP 18.45 ETS 182.72 ZAE 145.20 ETE 194.92 ZAC 86.81 ETC 166.15 CLP 18.43

PLANETOCENTRIC CONIC
 C3 111.220 VHL 10.546 DLA 17.35 RAL 22.87 RAD 6570.1 VEL 15.250 PTH 2.73 VHP 18.048 DPA -5.43 RAP 353.96 ECC 2.8304
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 19 3199.30 -26.10 110.69 282.04 78.61 5 45 38 2599.3 -27.41 102.27
 90.00 21 33 1 4699.19 15.41 200.59 269.06 65.95 22 51 21 4099.2 12.03 193.54
 100.00 6 23 41 2904.62 -27.97 89.43 282.45 79.00 7 12 6 2304.6 -29.20 80.85
 100.00 22 44 20 4469.10 17.14 182.85 268.24 65.13 23 58 49 3869.1 13.65 175.80
 110.00 7 54 0 2622.05 -32.86 69.02 283.50 79.99 8 37 42 2022.0 -33.89 59.94
 110.00 23 30 30 4324.43 21.61 169.57 265.93 62.85 24 42 35 3724.4 17.80 162.51

DIFFERENTIAL CORRECTIONS
 TDE -.7366 TRA-1.8760 TC3 -.1625 BAU .2474
 RDE -.7878 RRA .3051 RC3 -.0360 FAU .01443
 FDE .4867 FRA .8940 FC3 -.1123 BSP 3547
 BDE 1.0785 BRA 1.9006 BC3 .1664 FSP -128

MID-COURSE EXECUTION ACCURACY
 SGT 1190.7 SGR 468.1 SG3 53.6
 RRT .0214 RRF -.0235 RTF -.7688
 SGB 1279.4 R23 -.0041 R13 -.7688
 SG1 1190.7 SG2 467.9 THA .57

ORBIT DETERMINATION ACCURACY
 ST 512.7 SR 431.1 SS 476.2
 CRT .6994 CRS .7989 CST .9876
 LSA 779.0 MSA 261.5 SSA 15.2
 EL1 619.4 EL2 255.0 ALF 38.01

LAUNCH DATE DEC 16 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 22.707 GAL 13.92 AZL 86.50 MCA 73.02 SMA 103.09 ECC .48009 INC 3.5024 V1 30.262
 RP 107.55 LAP 3.35 LOP 157.10 VP 34.361 GAP -28.59 AZP 88.98 TAL 163.85 TAP 236.87 RCA 53.60 APO 152.59 V2 35.235
 RC 54.864 GL 7.67 GP .83 ZAL 56.13 ZAP 17.04 ETS 183.16 ZAE 146.51 ETE 195.94 ZAC 88.58 ETC 166.25 CLP 17.02

PLANETOCENTRIC CONIC
 C3 101.656 VHL 10.082 DLA 18.03 RAL 23.44 RAD 6570.0 VEL 14.933 PTH 2.69 VHP 17.309 DPA -4.65 RAP 355.63 ECC 2.6730
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 47 39 3206.87 -26.00 111.22 281.43 78.36 5 41 6 2606.9 -27.34 102.82
 90.00 21 42 15 4654.02 14.14 197.88 268.48 65.21 22 59 49 4054.0 10.68 190.91
 100.00 6 19 40 2910.14 -27.90 89.83 281.86 78.81 7 8 10 2310.1 -29.16 81.25
 100.00 22 52 55 4425.98 15.89 180.26 267.62 64.34 24 6 41 3826.0 12.31 173.30
 110.00 7 51 16 2623.58 -32.84 69.14 282.94 79.92 8 34 59 2023.6 -33.88 60.06
 110.00 23 37 49 4285.31 20.38 167.21 265.24 61.94 24 49 15 3685.3 16.46 160.27

DIFFERENTIAL CORRECTIONS
 TDE -.7388 TRA-1.8751 TC3 -.1662 BAU .2320
 RDE -.7530 RRA .2839 RC3 -.0393 FAU .01482
 FDE .5064 FRA .9235 FC3 -.1262 BSP 3758
 BDE 1.0549 BRA 1.8964 BC3 .1707 FSP -141

MID-COURSE EXECUTION ACCURACY
 SGT 1242.7 SGR 467.1 SG3 58.1
 RRT .0277 RRF -.0297 RTF -.7826
 SGB 1327.6 R23 -.0045 R13 -.7827
 SG1 1242.8 SG2 466.9 THA .69

ORBIT DETERMINATION ACCURACY
 ST 537.9 SR 430.9 SS 496.6
 CRT .7013 CRS .8014 CST .9874
 LSA 807.5 MSA 263.6 SSA 15.4
 EL1 638.9 EL2 258.7 ALF 36.16

LAUNCH DATE DEC 16 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 23.096 GAL 13.29 AZL 86.53 MCA 76.27 SMA 104.54 ECC .45903 INC 3.4747 V1 30.262
 RP 107.57 LAP 3.38 LOP 160.35 VP 34.613 GAP -27.28 AZP 89.17 TAL 163.24 TAP 239.51 RCA 56.55 APO 152.53 V2 35.229
 RC 53.197 GL 8.12 GP .87 ZAL 55.47 ZAP 15.64 ETS 183.66 ZAE 147.95 ETE 197.08 ZAC 90.35 ETC 166.33 CLP 15.62

PLANETOCENTRIC CONIC
 C3 92.951 VHL 9.641 DLA 18.71 RAL 23.96 RAD 6569.8 VEL 14.639 PTH 2.65 VHP 16.593 DPA -3.87 RAP 357.30 ECC 2.5297
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 42 39 3214.18 -25.90 111.74 280.72 78.13 5 36 13 2614.2 -27.27 103.34
 90.00 21 51 23 4608.08 12.81 195.16 267.86 64.53 23 8 11 4008.1 9.27 188.26
 100.00 6 15 20 2915.26 -27.83 90.19 281.17 78.63 7 3 56 2315.3 -29.12 81.63
 100.00 23 1 22 4382.23 14.58 177.67 266.97 63.62 24 14 25 3782.2 10.92 170.79
 110.00 7 48 16 2624.55 -32.83 69.21 282.26 79.88 8 32 0 2024.5 -33.87 60.13
 110.00 23 44 57 4245.71 19.09 164.85 264.50 61.09 24 55 42 3645.7 15.09 158.02

DIFFERENTIAL CORRECTIONS
 TDE -.7441 TRA-1.8754 TC3 -.1700 BAU .2178
 RDE -.7189 RRA .2632 RC3 -.0427 FAU .01524
 FDE .5277 FRA .9545 FC3 -.1419 BSP 3905
 BDE 1.0346 BRA 1.8938 BC3 .1753 FSP -154

MID-COURSE EXECUTION ACCURACY
 SGT 1299.1 SGR 465.3 SG3 63.0
 RRT .0357 RRF -.0370 RTF -.7955
 SGB 1379.9 R23 -.0044 R13 -.7955
 SG1 1299.2 SG2 465.0 THA .84

ORBIT DETERMINATION ACCURACY
 ST 565.9 SR 430.1 SS 518.3
 CRT .7044 CRS .8043 CST .9875
 LSA 838.8 MSA 264.8 SSA 15.5
 EL1 661.0 EL2 261.3 ALF 34.23

LAUNCH DATE DEC 16 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 23.460 GAL 12.68 AZL 86.55 MCA 79.51 SMA 105.95 ECC .43882 INC 3.4478 V1 30.262
 RP 107.59 LAP 3.39 LOP 163.60 VP 34.850 GAP -26.01 AZP 89.37 TAL 162.67 TAP 242.18 RCA 59.46 APO 152.45 V2 35.222
 RC 51.611 GL 8.58 GP .91 ZAL 54.87 ZAP 14.24 ETS 184.26 ZAE 149.54 ETE 198.37 ZAC 92.12 ETC 166.40 CLP 14.21

PLANETOCENTRIC CONIC
 C3 85.029 VHL 9.221 DLA 19.38 RAL 24.42 RAD 6569.7 VEL 14.366 PTH 2.61 VHP 15.901 DPA -3.08 RAP 358.97 ECC 2.3994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 37 17 3221.31 -25.80 112.23 279.90 77.90 5 30 58 2621.3 -27.21 103.85
 90.00 22 0 25 4561.38 11.43 192.43 267.19 63.91 23 16 27 3961.4 7.83 185.60
 100.00 6 10 42 2920.08 -27.77 90.54 280.36 78.46 6 59 22 2320.1 -29.08 81.98
 100.00 23 9 41 4337.84 13.23 175.07 266.27 62.95 24 21 59 3737.8 9.49 168.27
 110.00 7 45 0 2625.02 -32.82 69.25 281.48 79.86 8 28 45 2025.0 -33.87 60.17
 110.00 23 51 52 4205.66 17.75 162.52 263.73 60.30 25 1 58 3605.7 13.67 155.79

DIFFERENTIAL CORRECTIONS
 TDE -.7474 TRA-1.8716 TC3 -.1717 BAU .2021
 RDE -.6853 RRA .2429 RC3 -.0462 FAU .01572
 FDE .5501 FRA .9862 FC3 -.1601 BSP 4116
 BDE 1.0140 BRA 1.8873 BC3 .1778 FSP -170

MID-COURSE EXECUTION ACCURACY
 SGT 1354.8 SGR 462.8 SG3 68.4
 RRT .0439 RRF -.0449 RTF -.8079
 SGB 1431.7 R23 -.0048 R13 -.8080
 SG1 1355.0 SG2 462.3 THA .97

ORBIT DETERMINATION ACCURACY
 ST 593.7 SR 428.5 SS 540.7
 CRT .7075 CRS .8074 CST .9874
 LSA 870.5 MSA 265.5 SSA 15.6
 EL1 683.3 EL2 263.1 ALF 32.44

LAUNCH DATE DEC 16 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 23.800 GAL 12.09 AZL 86.58 HCA 82.75 SMA 107.33 ECC .41947 INC 3.4214 V1 30.262
 RP 107.61 LAP 3.39 LOP 166.84 VP 35.072 GAP -24.80 AZP 89.57 TAL 162.13 TAP 244.88 RCA 62.31 APO 152.36 V2 35.215
 RC 50.116 GL 9.06 GP .96 ZAL 54.34 ZAP 12.85 ETS 184.98 ZAE 151.28 ETE 199.85 ZAC 93.89 ETC 166.45 CLP 12.81

PLANETOCENTRIC CONIC
 C3 77.818 VHL 8.821 DLA 20.04 RAL 24.82 RAD 6569.5 VEL 14.113 PTH 2.57 VHP 15.232 DPA -2.29 RAP .63 ECC 2.2807
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 32 3228.40 -25.69 112.73 278.98 77.67 5 25 20 2628.4 -27.14 104.36
 90.00 22 9 23 4513.91 9.99 189.68 266.49 63.37 23 24 37 3913.9 6.34 182.91
 100.00 6 5 43 2924.69 -27.70 90.86 279.46 78.30 6 54 27 2324.7 -29.04 82.31
 100.00 23 17 53 4292.86 11.82 172.48 265.54 62.34 24 29 26 3692.9 8.02 165.74
 110.00 7 41 28 2625.08 -32.82 69.25 280.60 79.86 8 25 14 2025.1 -33.87 60.17
 110.00 0 2 32 4165.23 16.38 160.19 262.93 59.57 1 11 58 3565.2 12.21 153.56

DIFFERENTIAL CORRECTIONS
 TDE -.7510 TRA-1.8659 TC3 -.1719 BAU .1862
 RDE -.6525 RRA .2232 RC3 -.0499 FAU .01626
 FDE .5741 FRA 1.0192 FC3 -.1809 BSP 4336
 BOE .9949 BRA 1.8791 BC3 .1790 FSP -187

MID-COURSE EXECUTION ACCURACY
 SGT 1412.1 SGR 459.5 SG3 74.2
 RRT .0530 RRF -.0538 RTF -.8198
 SGB 1484.9 R23 -.0053 R13 -.8198
 SG1 1412.3 SG2 458.8 THA 1.10

ORBIT DETERMINATION ACCURACY
 ST 622.7 SR 426.3 SS 564.3
 CRT .7113 CRS .8109 CST .9873
 LSA 904.0 MSA 265.3 SSA 15.7
 EL1 707.0 EL2 263.9 ALF 38.69

LAUNCH DATE DEC 16 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 24.118 GAL 11.53 AZL 86.60 HCA 85.99 SMA 108.67 ECC .40098 INC 3.3955 V1 30.262
 RP 107.64 LAP 3.39 LOP 170.09 VP 35.281 GAP -23.63 AZP 89.76 TAL 161.63 TAP 247.61 RCA 65.10 APO 152.25 V2 35.207
 RC 48.721 GL 9.54 GP 1.01 ZAL 53.86 ZAP 11.46 ETS 185.87 ZAE 153.15 ETE 201.56 ZAC 95.66 ETC 166.48 CLP 11.41

PLANETOCENTRIC CONIC
 C3 71.258 VHL 8.441 DLA 20.68 RAL 25.16 RAD 6569.4 VEL 13.878 PTH 2.53 VHP 14.583 DPA -1.48 RAP 2.28 ECC 2.1727
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 22 3235.56 -25.59 113.23 277.97 77.44 5 19 18 2635.6 -27.06 104.87
 90.00 22 18 17 4465.69 8.51 186.91 265.76 62.89 23 32 43 3865.7 4.80 180.19
 100.00 6 0 23 2929.18 -27.64 91.18 278.46 78.14 6 49 12 2329.2 -29.00 82.64
 100.00 23 25 58 4247.30 10.37 169.87 264.77 61.81 24 36 45 3647.3 6.52 163.20
 110.00 7 37 41 2624.79 -32.82 69.23 279.63 79.87 8 21 25 2024.8 -33.87 60.15
 110.00 0 9 5 4124.46 14.96 157.89 262.10 58.90 1 17 50 3524.5 10.73 151.34

DIFFERENTIAL CORRECTIONS
 TDE -.7553 TRA-1.8584 TC3 -.1706 BAU .1703
 RDE -.6204 RRA .2039 RC3 -.0535 FAU .01686
 FDE .6001 FRA 1.0538 FC3 -.2048 BSP 4555
 BOE .9774 BRA 1.8695 BC3 .1788 FSP -205

MID-COURSE EXECUTION ACCURACY
 SGT 1470.9 SGR 455.4 SG3 80.6
 RRT .0633 RRF -.0639 RTF -.8309
 SGB 1539.8 R23 -.0057 R13 -.8310
 SG1 1471.2 SG2 454.4 THA 1.24

ORBIT DETERMINATION ACCURACY
 ST 653.0 SR 423.4 SS 589.1
 CRT .7158 CRS .8147 CST .9874
 LSA 939.5 MSA 264.4 SSA 15.8
 EL1 732.3 EL2 263.7 ALF 29.01

LAUNCH DATE DEC 16 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 24.415 GAL 10.99 AZL 86.63 HCA 89.23 SMA 109.97 ECC .38334 INC 3.3697 V1 30.262
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.476 GAP -22.51 AZP 89.95 TAL 161.16 TAP 250.39 RCA 67.81 APO 152.12 V2 35.198
 RC 47.437 GL 10.04 GP 1.07 ZAL 53.45 ZAP 10.07 ETS 187.01 ZAE 155.16 ETE 203.58 ZAC 97.42 ETC 166.50 CLP 10.01

PLANETOCENTRIC CONIC
 C3 65.291 VHL 8.080 DLA 21.32 RAL 25.45 RAD 6569.2 VEL 13.662 PTH 2.50 VHP 13.956 DPA -.67 RAP 3.93 ECC 2.0745
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 47 3242.95 -25.48 113.74 276.86 77.21 5 12 50 2642.9 -26.99 105.40
 90.00 22 27 10 4416.73 6.98 184.13 265.00 62.49 23 40 46 3816.7 3.24 177.45
 100.00 5 54 42 2933.67 -27.58 91.50 277.38 77.98 6 43 35 2333.7 -28.96 82.97
 100.00 23 33 56 4201.24 8.87 167.27 263.97 61.34 24 43 57 3601.2 4.98 160.65
 110.00 7 33 36 2624.23 -32.83 69.19 278.56 79.90 8 17 20 2024.2 -33.88 60.11
 110.00 0 15 27 4083.44 13.50 155.60 261.23 58.29 1 23 30 3483.4 9.21 149.13

DIFFERENTIAL CORRECTIONS
 TDE -.7599 TRA-1.8491 TC3 -.1672 BAU .1543
 RDE -.5892 RRA .1853 RC3 -.0572 FAU .01752
 FDE .6280 FRA 1.0900 FC3 -.2324 BSP 4780
 BOE .9616 BRA 1.8584 BC3 .1767 FSP -225

MID-COURSE EXECUTION ACCURACY
 SGT 1531.2 SGR 450.5 SG3 87.6
 RRT .0749 RRF -.0752 RTF -.8415
 SGB 1596.1 R23 -.0063 R13 -.8416
 SG1 1531.6 SG2 449.2 THA 1.38

ORBIT DETERMINATION ACCURACY
 ST 684.6 SR 419.9 SS 615.3
 CRT .7210 CRS .8189 CST .9874
 LSA 977.0 MSA 262.7 SSA 15.9
 EL1 759.1 EL2 262.5 ALF 27.40

LAUNCH DATE DEC 16 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 24.692 GAL 10.78 AZL 86.66 HCA 92.46 SMA 111.22 ECC .36654 INC 3.3440 V1 30.262
 RP 107.69 LAP 3.34 LOP 176.57 VP 35.658 GAP -21.43 AZP 90.14 TAL 160.74 TAP 253.20 RCA 70.46 APO 151.99 V2 35.189
 RC 46.274 GL 10.55 GP 1.13 ZAL 53.09 ZAP 8.68 ETS 188.52 ZAE 157.29 ETE 206.01 ZAC 99.18 ETC 166.49 CLP 8.60

PLANETOCENTRIC CONIC
 C3 59.865 VHL 7.737 DLA 21.95 RAL 25.68 RAD 6569.1 VEL 13.462 PTH 2.46 VHP 13.350 DPA .14 RAP 5.57 ECC 1.9852
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 45 3250.69 -25.36 114.28 275.67 76.96 5 5 55 2650.7 -26.90 105.95
 90.00 22 36 1 4367.03 5.40 181.32 264.20 62.16 23 48 48 3767.0 1.64 174.67
 100.00 5 48 38 2938.26 -27.51 91.83 276.20 77.82 6 37 37 2338.3 -28.91 83.30
 100.00 23 41 48 4154.70 7.34 164.66 263.15 60.94 24 51 3 3554.7 3.41 158.08
 110.00 7 29 15 2623.47 -32.84 69.13 277.41 79.93 8 12 59 2023.5 -33.88 60.05
 110.00 0 21 37 4042.25 12.02 153.33 260.34 57.76 1 28 59 3442.3 7.67 146.93

DIFFERENTIAL CORRECTIONS
 TDE -.7651 TRA-1.8377 TC3 -.1617 BAU .1383
 RDE -.5589 RRA .1671 RC3 -.0608 FAU .01826
 FDE .6584 FRA 1.1280 FC3 -.2641 BSP 5007
 BOE .9475 BRA 1.8453 BC3 .1728 FSP -248

MID-COURSE EXECUTION ACCURACY
 SGT 1592.6 SGR 444.9 SG3 95.3
 RRT .0879 RRF -.0879 RTF -.8515
 SGB 1653.6 R23 -.0069 R13 -.8516
 SG1 1593.1 SG2 443.1 THA 1.52

ORBIT DETERMINATION ACCURACY
 ST 717.5 SR 415.8 SS 643.0
 CRT .7270 CRS .8236 CST .9876
 LSA 1016.5 MSA 260.2 SSA 16.0
 EL1 787.4 EL2 260.2 ALF 25.88

LAUNCH DATE DEC 16 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 238.446

RL 147.22 LAL .00 LOL 84.11 VL 24.951 GAL 9.98 AZL 86.68 HCA 95.70 SMA 112.43 ECC .35058 INC 3.3182 V1 30.262
 RP 107.72 LAP 3.30 LOP 179.81 VP 35.828 GAP -20.39 AZP 90.33 TAL 160.35 TAP 256.05 RCA 73.02 APO 151.85 V2 35.179
 RC 45.244 GL 11.06 GP 1.20 ZAL 52.80 ZAP 7.28 ETS 190.63 ZAE 159.53 ETE 209.00 ZAC 100.91 ETC 166.46 CLP 7.19

PLANETOCENTRIC CONIC

C3 54.933 VHL 7.412 CLA 22.57 RAL 25.85 RAD 6569.0 VEL 13.277 PTH 2.43 VHP 12.763 DPA .96 RAP 7.19 ECC 1.9041
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 14 3258.96 -25.23 114.85 274.39 76.70 4 58 33 2659.0 -26.81 106.54
 90.00 22 44 53 4316.61 3.79 178.49 263.38 61.92 23 56 50 3716.6 .01 171.86
 100.00 5 42 12 2943.05 -27.44 92.17 274.95 77.66 6 31 15 2343.0 -28.87 83.66
 100.00 23 49 36 4107.76 5.78 162.05 262.29 60.62 24 58 3 3507.8 1.83 155.50
 110.00 7 24 38 2622.58 -32.85 69.06 276.19 79.97 8 8 21 2022.6 -33.89 59.98
 110.00 0 27 35 4000.99 10.51 151.09 259.42 57.28 1 34 16 3401.0 6.12 144.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7707 TRA-1.8246 TC3 -.1536 BAU .1223 SGT 1655.2 SGR 438.6 SG3 103.7 ST 751.7 SR 411.1 SS 672.5
 RDE -.5295 RRA .1496 RC3 -.0643 FAU .01908 RRT .1024 RRF -.1022 RTF -.8610 CRT .7337 CRS .8286 CST .9878
 FDE .6913 FRA 1.1683 FC3 -.3008 BSP 5239 SGB 1712.4 R23 -.0075 R13 -.8611 LSA 1058.3 MSA 257.0 SSA 16.1
 BDE .9351 BRA 1.8307 BC3 .1665 FSP -273 SG1 1655.9 SG2 436.1 THA 1.67 EL1 817.3 EL2 256.9 ALF 24.43

LAUNCH DATE DEC 16 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 245.182

RL 147.22 LAL .00 LOL 84.11 VL 25.192 GAL 9.51 AZL 86.71 HCA 98.93 SMA 113.60 ECC .33542 INC 3.2921 V1 30.262
 RP 107.75 LAP 3.25 LOP 183.05 VP 35.986 GAP -19.38 AZP 90.51 TAL 160.01 TAP 258.93 RCA 75.49 APO 151.70 V2 35.169
 RC 44.357 GL 11.59 GP 1.28 ZAL 52.57 ZAP 5.90 ETS 193.79 ZAE 161.85 ETE 212.79 ZAC 102.64 ETC 166.41 CLP 5.76

PLANETOCENTRIC CONIC

C3 50.451 VHL 7.103 CLA 23.17 RAL 25.96 RAD 6568.9 VEL 13.108 PTH 2.39 VHP 12.195 DPA 1.77 RAP 8.80 ECC 1.8303
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 13 3267.91 -25.09 115.46 273.03 76.42 4 50 41 2667.9 -26.71 107.17
 90.00 22 53 48 4265.47 2.15 175.63 262.54 61.76 24 4 53 3665.5 -1.64 169.01
 100.00 5 35 23 2948.14 -27.37 92.53 273.62 77.48 6 24 32 2348.1 -28.82 84.02
 100.00 0 1 14 4060.47 4.20 159.44 261.41 60.38 1 8 55 3460.5 .22 152.90
 110.00 7 19 45 2621.62 -32.86 68.99 274.88 80.01 8 3 27 2021.6 -33.89 59.91
 110.00 0 33 21 3959.76 8.98 148.87 258.48 56.88 1 39 21 3359.8 4.56 142.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7770 TRA-1.8097 TC3 -.1427 BAU .1065 SGT 1719.1 SGR 431.5 SG3 113.0 ST 787.3 SR 405.8 SS 703.7
 RDE -.5012 RRA .1326 RC3 -.0676 FAU .02000 RRT .1188 RRF -.1184 RTF -.8699 CRT .7412 CRS .8340 CST .9880
 FDE .7273 FRA 1.2109 FC3 -.3431 BSP 5469 SGB 1772.4 R23 -.0082 R13 -.8700 LSA 1102.4 MSA 253.0 SSA 16.1
 BDE .9246 BRA 1.8145 BC3 .1579 FSP -300 SG1 1719.9 SG2 428.3 THA 1.82 EL1 848.9 EL2 252.7 ALF 23.07

LAUNCH DATE DEC 16 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 251.933

RL 147.22 LAL .00 LOL 84.11 VL 25.417 GAL 9.05 AZL 86.73 HCA 102.16 SMA 114.71 ECC .32106 INC 3.2655 V1 30.262
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.133 GAP -18.42 AZP 90.69 TAL 159.71 TAP 261.86 RCA 77.88 APO 151.54 V2 35.158
 RC 43.625 GL 12.12 GP 1.37 ZAL 52.39 ZAP 4.52 ETS 198.96 ZAE 164.19 ETE 217.71 ZAC 104.34 ETC 166.33 CLP 4.31

PLANETOCENTRIC CONIC

C3 46.381 VHL 6.810 CLA 23.76 RAL 26.01 RAD 6568.7 VEL 12.952 PTH 2.36 VHP 11.646 DPA 2.59 RAP 10.39 ECC 1.7633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 47 40 3277.73 -24.93 116.14 271.61 76.12 4 42 18 2677.7 -26.60 107.87
 90.00 23 2 47 4213.60 .48 172.74 261.68 61.69 24 13 0 3613.6 -3.31 166.11
 100.00 5 28 11 2953.64 -27.29 92.92 272.23 77.29 6 17 25 2353.6 -28.76 84.42
 100.00 0 8 53 4012.92 2.59 156.82 260.51 60.21 1 15 45 3412.9 -1.39 150.30
 110.00 7 14 37 2620.65 -32.87 68.92 273.52 80.05 7 58 18 2020.6 -33.90 59.83
 110.00 0 38 56 3918.67 7.45 146.68 257.51 56.54 1 44 14 3318.7 2.99 140.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7836 TRA-1.7929 TC3 -.1288 BAU .0911 SGT 1783.7 SGR 423.8 SG3 123.3 ST 824.1 SR 400.0 SS 737.0
 RDE -.4740 RRA .1161 RC3 -.0705 FAU .02101 RRT .1373 RRF -.1367 RTF -.8783 CRT .7494 CRS .8399 CST .9883
 FDE .7668 FRA 1.2564 FC3 -.3921 BSP 5695 SGB 1833.3 R23 -.0091 R13 -.8784 LSA 1149.1 MSA 248.4 SSA 16.2
 BDE .9158 BRA 1.7966 BC3 .1469 FSP -330 SG1 1784.7 SG2 419.6 THA 1.98 EL1 882.0 EL2 247.5 ALF 21.80

LAUNCH DATE DEC 16 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 258.694

RL 147.22 LAL .00 LOL 84.11 VL 25.626 GAL 8.62 AZL 86.76 HCA 105.39 SMA 115.78 ECC .30748 INC 3.2384 V1 30.262
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.270 GAP -17.48 AZP 90.86 TAL 159.45 TAP 264.83 RCA 80.18 APO 151.38 V2 35.147
 RC 43.055 GL 12.65 GP 1.47 ZAL 52.28 ZAP 3.21 ETS 208.69 ZAE 166.49 ETE 224.35 ZAC 106.02 ETC 166.23 CLP 2.85

PLANETOCENTRIC CONIC

C3 42.686 VHL 6.533 CLA 24.33 RAL 26.01 RAD 6568.6 VEL 12.808 PTH 2.33 VHP 11.115 DPA 3.41 RAP 11.96 ECC 1.7025
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 38 34 3288.59 -24.75 116.88 270.11 75.79 4 33 22 2688.6 -26.46 108.63
 90.00 23 11 52 4160.98 -1.22 169.80 260.81 61.71 24 21 13 3561.0 -4.99 163.16
 100.00 5 20 36 2959.61 -27.20 93.34 270.77 77.09 6 9 55 2359.6 -28.70 84.86
 100.00 0 16 27 3965.19 .98 154.20 259.59 60.12 1 22 32 3365.2 -3.01 147.67
 110.00 7 9 15 2619.69 -32.88 68.84 272.10 80.09 7 52 55 2019.7 -33.90 59.76
 110.00 0 44 17 3877.88 5.91 144.52 256.52 56.27 1 48 55 3277.9 1.44 138.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7906 TRA-1.7738 TC3 -.1112 BAU .0759 SGT 1848.4 SGR 415.5 SG3 134.6 ST 862.0 SR 393.8 SS 772.4
 RDE -.4479 RRA .1003 RC3 -.0730 FAU .02214 RRT .1581 RRF -.1573 RTF -.8862 CRT .7585 CRS .8462 CST .9886
 FDE .8099 FRA 1.3049 FC3 -.4489 BSP 5935 SGB 1894.5 R23 -.0100 R13 -.8863 LSA 1198.0 MSA 243.1 SSA 16.2
 BDE .9086 BRA 1.7767 BC3 .1330 FSP -364 SG1 1849.6 SG2 410.0 THA 2.14 EL1 916.4 EL2 241.4 ALF 20.61

LAUNCH DATE DEC 16 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 25.820 GAL 8.21 AZL 86.79 HCA 108.61 SMA 116.80 ECC .29466 INC 3.2103 V1 30.262
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.397 GAP -16.58 AZP 91.03 TAL 159.23 TAP 267.84 RCA 82.38 APO 151.22 V2 35.135
 RC 42.657 GL 13.19 GP 1.58 ZAL 52.22 ZAP 2.09 ETS 230.66 ZAE 168.62 ETE 233.54 ZAC 107.67 ETC 166.10 CLP 1.37

PLANETOCENTRIC CONIC
 C3 39.334 VHL 6.272 OLA 24.89 RAL 25.95 RAD 6568.5 VEL 12.677 PTH 2.30 VHP 10.603 OPA 4.23 RAP 13.51 ECC 1.6473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 28 51 3300.72 -24.55 117.71 268.56 75.42 4 23 52 2700.7 -26.31 109.49
 90.00 23 21 7 4107.57 -2.94 166.82 259.92 61.82 24 29 35 3507.6 -6.69 160.14
 100.00 5 12 38 2966.14 -27.10 93.80 269.26 76.87 6 2 4 2366.1 -28.63 85.33
 100.00 0 23 58 3917.37 -.65 151.57 258.65 60.11 1 29 15 3317.4 -4.62 145.04
 110.00 7 3 40 2618.76 -32.90 68.77 270.62 80.13 7 47 18 2018.8 -33.91 59.68
 110.00 0 49 25 3837.52 4.38 142.40 255.92 56.06 1 53 23 3237.5 -.11 136.18

DIFFERENTIAL CORRECTIONS
 TDE -.7979 TRA -1.7534 TC3 -.0900 BAU .0616 SGT 1913.7 SGR 406.7 SG3 147.1 ST 901.1 SR 387.2 SS 810.2
 RDE -.4229 RRA .0848 RC3 -.0750 FAU .02339 RRT .1816 RRF -.1808 RTF -.8936 CRT .7682 CRS .8530 CST .9890
 FDE .8575 FRA 1.3571 FC3 -.5148 BSP 6152 SGB 1956.5 R23 -.0113 R13 -.8938 LSA 1249.7 MSA 237.3 SSA 16.2
 BDE .9030 BRA 1.7554 BC3 .1171 FSP -402 SG1 1915.2 SG2 399.7 THA 2.31 EL1 952.3 EL2 234.6 ALF 19.50

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 16 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 26.001 GAL 7.81 AZL 86.82 HCA 111.84 SMA 117.77 ECC .28258 INC 3.1813 V1 30.262
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.514 GAP -15.71 AZP 91.18 TAL 159.06 TAP 270.89 RCA 84.49 APO 151.05 V2 35.123
 RC 42.436 GL 13.73 GP 1.70 ZAL 52.22 ZAP 1.71 ETS 276.48 ZAE 170.42 ETE 246.45 ZAC 109.29 ETC 165.95 CLP -.14

PLANETOCENTRIC CONIC
 C3 36.293 VHL 6.024 OLA 25.43 RAL 25.84 RAD 6568.4 VEL 12.556 PTH 2.28 VHP 10.107 OPA 5.05 RAP 15.02 ECC 1.5973
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 18 31 3314.34 -24.31 118.64 266.95 75.01 4 13 45 2714.3 -26.13 110.45
 90.00 23 30 35 4053.28 -4.68 163.78 259.03 62.04 24 38 9 3453.3 -8.39 157.06
 100.00 5 4 18 2973.27 -26.98 94.30 267.70 76.63 5 53 51 2373.3 -28.56 85.85
 100.00 0 31 25 3869.59 -2.27 148.95 257.69 60.19 1 35 54 3269.6 -6.22 142.39
 110.00 6 57 54 2617.86 -32.91 68.71 269.10 80.17 7 41 32 2017.9 -33.91 59.61
 110.00 0 54 19 3797.75 2.86 140.32 254.50 55.92 1 57 36 3197.8 -1.63 134.11

DIFFERENTIAL CORRECTIONS
 TDE -.8050 TRA -1.7292 TC3 -.0643 BAU .0483 SGT 1976.9 SGR 397.5 SG3 161.0 ST 940.6 SR 380.4 SS 850.6
 RDE -.3992 RRA .0699 RC3 -.0761 FAU .02479 RRT .2083 RRF -.2074 RTF -.9007 CRT .7789 CRS .8601 CST .9894
 FDE .9100 FRA 1.4135 FC3 -.5912 BSP 6412 SGB 2016.5 R23 -.0125 R13 -.9009 LSA 1303.6 MSA 230.8 SSA 16.2
 BDE .8986 BRA 1.7307 BC3 .0996 FSP -443 SG1 1978.7 SG2 388.4 THA 2.49 EL1 988.9 EL2 226.9 ALF 18.49

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 16 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 26.169 GAL 7.44 AZL 86.85 HCA 115.06 SMA 118.70 ECC .27121 INC 3.1508 V1 30.262
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.622 GAP -14.87 AZP 91.34 TAL 158.93 TAP 273.98 RCA 86.50 APO 150.89 V2 35.111
 RC 42.394 GL 14.26 GP 1.85 ZAL 52.27 ZAP 2.50 ETS 314.18 ZAE 171.61 ETE 263.80 ZAC 110.86 ETC 165.77 CLP -1.69

PLANETOCENTRIC CONIC
 C3 33.537 VHL 5.791 OLA 25.94 RAL 25.68 RAD 6568.3 VEL 12.446 PTH 2.25 VHP 9.629 OPA 5.87 RAP 16.50 ECC 1.5519
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 7 28 3329.74 -24.04 119.69 265.29 74.56 4 2 58 2729.7 -25.92 111.53
 90.00 23 40 21 3998.00 -6.44 160.67 258.13 62.37 24 46 59 3398.0 -10.09 153.89
 100.00 4 55 38 2981.00 -26.86 94.84 266.10 76.37 5 45 19 2381.0 -28.47 86.40
 100.00 0 38 48 3821.97 -3.87 146.33 256.73 60.34 1 42 30 3222.0 -7.79 139.74
 110.00 6 51 59 2616.96 -32.92 68.64 267.55 80.21 7 35 36 2017.0 -33.92 59.54
 110.00 0 58 56 3758.77 1.38 138.28 253.46 55.84 2 1 35 3158.8 -3.12 132.07

DIFFERENTIAL CORRECTIONS
 TDE -.8132 TRA -1.7068 TC3 -.0346 BAU .0376 SGT 2043.4 SGR 388.0 SG3 176.4 ST 982.2 SR 373.3 SS 893.8
 RDE -.3769 RRA .0554 RC3 -.0764 FAU .02635 RRT .2386 RRF -.2379 RTF -.9073 CRT .7901 CRS .8678 CST .9899
 FDE .9678 FRA 1.4745 FC3 -.6801 BSP 6627 SGB 2079.9 R23 -.0143 R13 -.9074 LSA 1361.0 MSA 224.1 SSA 16.2
 BDE .8963 BRA 1.7077 BC3 .0838 FSP -490 SG1 2045.5 SG2 376.4 THA 2.68 EL1 1027.7 EL2 218.7 ALF 17.53

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 16 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 26.325 GAL 7.08 AZL 86.88 HCA 118.28 SMA 119.57 ECC .26053 INC 3.1188 V1 30.262
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.721 GAP -14.06 AZP 91.48 TAL 158.84 TAP 277.11 RCA 88.42 APO 150.72 V2 35.099
 RC 42.534 GL 14.78 GP 2.01 ZAL 52.36 ZAP 3.83 ETS 330.29 ZAE 171.92 ETE 284.09 ZAC 112.39 ETC 165.55 CLP -3.26

PLANETOCENTRIC CONIC
 C3 31.039 VHL 5.571 OLA 26.43 RAL 25.48 RAD 6568.2 VEL 12.346 PTH 2.23 VHP 9.166 OPA 6.69 RAP 17.94 ECC 1.5108
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 38 3347.27 -23.71 120.87 263.59 74.05 3 51 26 2747.3 -25.67 112.75
 90.00 23 50 31 3941.48 -8.21 157.46 257.24 62.80 24 56 12 3341.5 -11.79 150.61
 100.00 4 46 41 2989.29 -26.73 95.42 264.47 76.09 5 36 30 2389.3 -28.38 87.00
 100.00 0 46 5 3774.70 -5.46 143.72 255.75 60.57 1 49 0 3174.7 -9.34 137.08
 110.00 6 46 0 2615.97 -32.93 68.56 265.97 80.25 7 29 36 2016.0 -33.92 59.47
 110.00 1 3 16 3720.79 -.08 136.30 252.40 55.82 2 5 17 3120.8 -4.56 130.08

DIFFERENTIAL CORRECTIONS
 TDE -.8209 TRA -1.6814 TC3 -.0006 BAU .0313 SGT 2107.5 SGR 378.4 SG3 193.6 ST 1023.9 SR 366.2 SS 940.0
 RDE -.3558 RRA .0411 RC3 -.0754 FAU .02809 RRT .2730 RRF -.2728 RTF -.9133 CRT .8020 CRS .8759 CST .9903
 FDE 1.0318 FRA 1.5412 FC3 -.7834 BSP 6844 SGB 2141.2 R23 -.0164 R13 -.9135 LSA 1420.8 MSA 217.0 SSA 16.2
 BDE .8947 BRA 1.6819 BC3 .0754 FSP -541 SG1 2110.1 SG2 363.6 THA 2.89 EL1 1067.0 EL2 209.9 ALF 16.67

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 16 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 292.547

RL 147.22 LAL .00 LOL 84.11 VL 26.469 GAL 6.75 AZL 86.92 HCA 121.49 SMA 120.39 ECC .25052 INC 3.0848 V1 30.262
 RP 108.01 LAP 2.63 LOP 205.64 VP 36.812 GAP -13.28 AZP 91.61 TAL 158.79 TAP 280.28 RCA 90.23 APO 150.56 V2 35.086
 RC 42.853 GL 15.29 GP 2.19 ZAL 52.51 ZAP 5.35 ETS 337.81 ZAE 171.32 ETE 303.22 ZAC 113.87 ETC 165.30 CLP -4.88

PLANETOCENTRIC CONIC

C3 28.778 VHL 5.364 DLA 26.89 RAL 25.22 RAD 6568.2 VEL 12.254 PTH 2.20 VHP 8.721 DPA 7.51 RAP 19.33 ECC 1.4736
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 42 55 3367.45 -23.33 122.22 261.83 73.48 3 39 2 2767.5 -25.37 114.15
 90.00 0 5 10 3883.36 -10.00 154.13 256.35 63.37 1 9 53 3283.4 -13.50 147.20
 100.00 4 37 30 2998.05 -26.58 96.03 262.82 75.80 5 27 28 2398.1 -28.27 87.63
 100.00 0 53 16 3727.99 -7.02 141.13 254.75 60.87 1 55 24 3128.0 -10.85 134.43
 110.00 6 39 59 2614.78 -32.94 68.47 264.37 80.31 7 23 34 2014.8 -33.93 59.37
 110.00 1 7 16 3684.03 -1.48 134.38 251.34 55.85 2 8 40 3084.0 -5.95 128.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8284 TRA-1.6539 TC3 .0386 BAU .0318
 RDE -.3362 RRA .0272 RC3 -.0730 FAU .03004
 FDE 1.1025 FRA 1.6137 FC3 -.9038 BSP 7065
 BDE .8940 BRA 1.6541 BC3 .0826 FSP -599

SGT 2189.7 SCR 368.9 SC3 212.7
 RRT .3122 RRF -.3125 RTF -.9191
 SGB 2200.8 R23 -.0188 R13 -.9193
 SC1 2172.8 SC2 350.0 THA 3.12

ST 1065.8 SR 359.2 SS 989.2
 CRT .8147 CRS .8844 CST .9908
 LSA 1483.0 MSA 209.5 SSA 16.1
 EL1 1106.6 EL2 200.6 ALF 15.89

LAUNCH DATE DEC 16 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 299.307

RL 147.22 LAL .00 LOL 84.11 VL 26.602 GAL 6.43 AZL 86.95 HCA 124.71 SMA 121.17 ECC .24116 INC 3.0484 V1 30.262
 RP 108.05 LAP 2.51 LOP 208.85 VP 36.896 GAP -12.52 AZP 91.74 TAL 158.78 TAP 283.49 RCA 91.95 APO 150.40 V2 35.073
 RC 43.347 GL 15.78 GP 2.40 ZAL 52.69 ZAP 6.98 ETS 341.93 ZAE 170.06 ETE 318.26 ZAC 115.29 ETC 165.02 CLP -6.55

PLANETOCENTRIC CONIC

C3 26.726 VHL 5.170 DLA 27.31 RAL 24.93 RAD 6568.1 VEL 12.170 PTH 2.18 VHP 8.291 DPA 8.33 RAP 20.67 ECC 1.4398
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 29 4 3391.10 -22.86 123.80 260.04 72.82 3 25 35 2791.1 -25.00 115.78
 90.00 0 16 41 3822.90 -11.82 150.62 255.48 64.08 1 20 24 3222.9 -15.21 143.59
 100.00 4 28 11 3007.08 -26.43 96.86 261.15 75.50 5 18 18 2407.1 -28.16 88.28
 100.00 1 0 15 3682.15 -8.53 138.56 253.75 61.24 2 1 37 3082.1 -12.30 131.81
 110.00 6 34 3 2613.22 -32.96 68.36 262.76 80.37 7 17 36 2013.2 -33.94 59.25
 110.00 1 10 53 3648.77 -2.83 132.54 250.25 55.92 2 11 42 3048.8 -7.28 126.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8327 TRA-1.6223 TC3 .0858 BAU .0393
 RDE -.3179 RRA .0134 RC3 -.0688 FAU .03228
 FDE 1.1796 FRA 1.6923 FC3 -1.0455 BSP 7335
 BDE .8913 BRA 1.6224 BC3 .1100 FSP -666

SGT 2225.9 SCR 359.8 SC3 234.0
 RRT .3557 RRF -.3574 RTF -.9247
 SGB 2254.8 R23 -.0223 R13 -.9249
 SC1 2229.6 SC2 335.7 THA 3.37

ST 1104.7 SR 352.3 SS 1040.8
 CRT .8275 CRS .8933 CST .9913
 LSA 1544.9 MSA 201.9 SSA 15.9
 EL1 1143.7 EL2 191.1 ALF 15.22

LAUNCH DATE DEC 16 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 306.058

RL 147.22 LAL .00 LOL 84.11 VL 26.725 GAL 6.12 AZL 86.99 HCA 127.92 SMA 121.90 ECC .23243 INC 3.0091 V1 30.262
 RP 108.09 LAP 2.37 LOP 212.07 VP 36.973 GAP -11.79 AZP 91.85 TAL 158.80 TAP 286.72 RCA 93.57 APO 150.24 V2 35.060
 RC 44.011 GL 16.24 GP 2.65 ZAL 52.91 ZAP 8.69 ETS 344.42 ZAE 168.44 ETE 329.21 ZAC 116.64 ETC 164.70 CLP -8.27

PLANETOCENTRIC CONIC

C3 24.870 VHL 4.987 DLA 27.70 RAL 24.61 RAD 6568.0 VEL 12.093 PTH 2.16 VHP 7.876 DPA 9.15 RAP 21.95 ECC 1.4093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 13 38 3419.83 -22.27 125.70 258.19 72.05 3 10 38 2819.8 -24.52 117.75
 90.00 0 29 32 3758.58 -13.71 146.84 254.65 64.98 1 32 11 3158.6 -16.97 139.68
 100.00 4 18 54 3016.02 -26.28 97.28 259.48 75.21 5 9 10 2416.0 -28.05 88.92
 100.00 1 6 58 3637.62 -9.98 136.05 252.73 61.68 2 7 35 3037.6 -13.69 129.22
 110.00 6 28 17 2611.08 -32.98 68.19 261.14 80.47 7 11 49 2011.1 -33.95 59.09
 110.00 1 14 3 3615.33 -4.10 130.79 249.16 56.03 2 14 19 3015.3 -8.53 124.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8390 TRA-1.5923 TC3 .1342 BAU .0492
 RDE -.3012 RRA -.0004 RC3 -.0626 FAU .03472
 FDE 1.2665 FRA 1.7807 FC3 -1.2088 BSP 7533
 BDE .8914 BRA 1.5923 BC3 .1481 FSP -739

SGT 2283.9 SCR 351.7 SC3 257.9
 RRT .4064 RRF -.4092 RTF -.9297
 SGB 2310.8 R23 -.0261 R13 -.9300
 SC1 2288.4 SC2 320.7 THA 3.65

ST 1146.0 SR 346.1 SS 1097.1
 CRT .8413 CRS .9026 CST .9918
 LSA 1612.1 MSA 194.1 SSA 15.7
 EL1 1183.4 EL2 181.2 ALF 14.61

LAUNCH DATE DEC 16 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 312.798

RL 147.22 LAL .00 LOL 84.11 VL 26.839 GAL 5.84 AZL 87.03 HCA 131.13 SMA 122.59 ECC .22430 INC 2.9662 V1 30.262
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.042 GAP -11.08 AZP 91.95 TAL 158.86 TAP 289.99 RCA 95.09 APO 150.09 V2 35.047
 RC 44.838 GL 16.67 GP 2.94 ZAL 53.16 ZAP 10.48 ETS 346.02 ZAE 166.71 ETE 337.19 ZAC 117.91 ETC 164.33 CLP -10.06

PLANETOCENTRIC CONIC

C3 23.188 VHL 4.815 DLA 28.03 RAL 24.26 RAD 6567.9 VEL 12.024 PTH 2.15 VHP 7.477 DPA 9.99 RAP 23.16 ECC 1.3816
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 55 19 3457.99 -21.45 128.20 256.25 71.06 2 52 57 2858.0 -23.84 120.34
 90.00 0 45 4 3686.12 -15.75 142.50 253.90 66.16 1 46 30 3086.1 -18.84 135.19
 100.00 4 9 50 3024.31 -26.13 97.85 257.82 74.94 5 0 15 2424.3 -27.94 89.52
 100.00 1 13 14 3595.03 -11.34 133.62 251.70 62.16 2 13 9 2995.0 -14.98 126.72
 110.00 6 22 51 2608.03 -33.02 67.96 259.53 80.60 7 6 19 2008.0 -33.96 58.85
 110.00 1 16 43 3584.08 -5.29 129.15 248.05 56.18 2 16 27 2984.1 -9.70 122.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8441 TRA-1.5609 TC3 .1865 BAU .0602
 RDE -.2863 RRA -.0145 RC3 -.0539 FAU .03747
 FDE 1.3827 FRA 1.8787 FC3 -1.3989 BSP 7713
 BDE .8913 BRA 1.5609 BC3 .1942 FSP -820

SGT 2338.4 SCR 345.1 SC3 284.7
 RRT .4834 RRF -.4678 RTF -.9343
 SGB 2363.7 R23 -.0308 R13 -.9346
 SC1 2343.9 SC2 305.1 THA 3.98

ST 1186.2 SR 340.7 SS 1157.1
 CRT .8557 CRS .9124 CST .9923
 LSA 1681.4 MSA 186.2 SSA 15.5
 EL1 1222.3 EL2 171.1 ALF 14.09

LAUNCH DATE DEC 16 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 319.525

RL 147.22 LAL .00 LOL 84.11 VL 26.944 GAL 5.57 AZL 87.08 MCA 134.34 SMA 123.23 ECC .21674 INC 2.9189 V1 30.262
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.106 GAP -10.39 AZP 92.04 TAL 158.95 TAP 293.29 RCA 96.52 APO 149.94 V2 35.033
 RC 45.818 GL 17.06 GP 3.27 ZAL 53.43 ZAP 12.35 ETS 347.05 ZAE 165.01 ETE 343.24 ZAC 119.09 ETC 163.92 CLP -11.92

PLANETOCENTRIC CONIC

C3 21.665 VHL 4.655 CLA 28.32 RAL 23.89 RAD 6567.9 VEL 11.960 PTH 2.13 VHP 7.094 DPA 10.83 RAP 24.28 ECC 1.3566
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 89.59 1 15 19 3566.59 -19.17 135.25 253.73 68.75 2 14 46 2966.6 -21.89 127.63
 90.41 1 22 8 3544.55 -19.16 133.63 253.73 68.74 2 21 12 2944.5 -21.88 126.01
 100.00 4 1 20 3031.04 -26.01 98.31 256.18 74.73 4 51 51 2431.0 -27.85 90.00
 100.00 1 18 48 3555.33 -12.59 131.34 250.65 62.66 2 18 3 2955.3 -16.16 124.36
 110.00 6 17 52 2603.69 -33.07 67.63 257.93 80.79 7 1 16 2003.7 -33.98 58.51
 110.00 1 18 46 3555.45 -6.37 127.64 246.94 56.34 2 18 1 2955.5 -10.75 121.28

DIFFERENTIAL CORRECTIONS

TOE -.8473 TRA-1.5276 TC3 .2431 BAU .0715
 RDE -.2731 RRA -.0291 RC3 -.0421 FAU .04056
 FDE 1.4689 FRA 1.9876 FC3-1.6206 BSP 7889
 BDE .8903 BRA 1.5278 BC3 .2467 FSP -912

MID-COURSE EXECUTION ACCURACY

SGT 2387.8 SGR 340.9 SG3 314.7
 RRT .5266 RRF -.5329 RTF -.9386
 SGB 2412.0 R23 -.0368 R13 -.9390
 SG1 2394.7 SG2 289.0 THA 4.36

ORBIT DETERMINATION ACCURACY

ST 1224.2 SR 336.4 SS 1220.6
 CRT .8704 CRS .9224 CST .9928
 LSA 1752.1 MSA 178.3 SSA 15.2
 EL1 1259.3 EL2 161.0 ALF 13.68

LAUNCH DATE DEC 16 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 326.238

RL 147.22 LAL .00 LOL 84.11 VL 27.040 GAL 5.32 AZL 87.13 MCA 137.54 SMA 123.83 ECC .20974 INC 2.8662 V1 30.262
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.163 GAP -9.73 AZP 92.12 TAL 159.07 TAP 296.62 RCA 97.86 APO 149.80 V2 35.020
 RC 46.944 GL 17.39 GP 3.67 ZAL 53.72 ZAP 14.32 ETS 347.69 ZAE 163.41 ETE 348.07 ZAC 120.16 ETC 163.45 CLP -13.86

PLANETOCENTRIC CONIC

C3 20.284 VHL 4.504 CLA 28.54 RAL 23.52 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 6.725 DPA 11.70 RAP 25.30 ECC 1.3338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.25 0 45 59 3640.99 -19.71 140.92 252.35 68.92 1 46 40 3041.0 -22.40 133.26
 93.75 1 48 29 3438.52 -19.69 126.09 252.35 68.91 2 45 47 2838.5 -22.39 118.43
 100.00 3 53 52 3034.84 -25.94 98.57 254.58 74.60 4 44 27 2434.8 -27.80 90.27
 100.00 1 23 16 3519.91 -13.69 129.28 249.57 63.17 2 21 56 2919.9 -17.18 122.23
 110.00 6 13 33 2597.55 -33.13 67.16 256.36 81.06 6 56 51 1997.6 -34.01 58.04
 110.00 1 20 4 3529.96 -7.33 126.29 245.81 56.52 2 18 54 2930.0 -11.68 119.90

DIFFERENTIAL CORRECTIONS

TOE -.8483 TRA-1.4934 TC3 .3029 BAU .0825
 RDE -.2619 RRA -.0445 RC3 -.0266 FAU .04402
 FDE 1.5859 FRA 2.1099 FC3-1.8789 BSP 8047
 BDE .8878 BRA 1.4940 BC3 .3040 FSP -1015

MID-COURSE EXECUTION ACCURACY

SGT 2432.4 SGR 340.2 SG3 348.5
 RRT .5950 RRF -.6037 RTF -.9425
 SGB 2456.0 R23 -.0445 R13 -.9430
 SG1 2440.9 SG2 272.5 THA 4.82

ORBIT DETERMINATION ACCURACY

ST 1259.3 SR 333.7 SS 1287.9
 CRT .8854 CRS .9326 CST .9933
 LSA 1823.9 MSA 170.5 SSA 14.9
 EL1 1293.9 EL2 151.0 ALF 13.39

LAUNCH DATE DEC 16 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 332.935

RL 147.22 LAL .00 LOL 84.11 VL 27.128 GAL 5.09 AZL 87.19 MCA 140.75 SMA 124.38 ECC .20327 INC 2.8067 V1 30.262
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.215 GAP -9.08 AZP 92.17 TAL 159.22 TAP 299.96 RCA 99.10 APO 149.67 V2 35.007
 RC 48.205 GL 17.66 GP 4.15 ZAL 54.02 ZAP 16.40 ETS 348.03 ZAE 161.98 ETE 352.15 ZAC 121.11 ETC 162.93 CLP -15.89

PLANETOCENTRIC CONIC

C3 19.029 VHL 4.362 CLA 28.69 RAL 23.14 RAD 6567.8 VEL 11.850 PTH 2.10 VHP 6.371 DPA 12.60 RAP 26.21 ECC 1.3132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.16 0 35 28 3655.01 -20.17 142.14 251.00 69.15 1 36 23 3055.0 -22.83 134.44
 94.84 1 56 1 3394.21 -20.16 123.03 250.99 69.14 2 52 35 2794.2 -22.82 115.33
 100.00 3 48 5 3033.77 -25.96 98.50 253.05 74.64 4 38 39 2433.8 -27.82 90.19
 100.00 1 26 5 3490.69 -14.58 127.57 248.44 63.61 2 24 16 2890.7 -18.01 120.46
 110.00 6 10 9 2589.00 -33.22 66.51 254.82 81.43 6 53 18 1989.0 -34.05 57.37
 110.00 1 20 31 3508.22 -8.15 125.13 244.67 56.69 2 18 59 2908.2 -12.47 118.71

DIFFERENTIAL CORRECTIONS

TOE -.8438 TRA-1.4550 TC3 .3701 BAU .0942
 RDE -.2528 RRA -.0610 RC3 -.0062 FAU .04801
 FDE 1.7120 FRA 2.2449 FC3-2.1843 BSP 8238
 BDE .8808 BRA 1.4562 BC3 .3702 FSP -1134

MID-COURSE EXECUTION ACCURACY

SGT 2465.5 SGR 344.3 SG3 386.3
 RRT .6655 RRF -.6775 RTF -.9463
 SGB 2489.4 R23 -.0547 R13 -.9469
 SG1 2476.2 SG2 255.9 THA 5.37

ORBIT DETERMINATION ACCURACY

ST 1286.7 SR 333.1 SS 1357.0
 CRT .9002 CRS .9427 CST .9937
 LSA 1892.4 MSA 163.0 SSA 14.4
 EL1 1321.6 EL2 141.2 ALF 13.27

LAUNCH DATE DEC 16 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 339.616

RL 147.22 LAL .00 LOL 84.11 VL 27.209 GAL 4.87 AZL 87.26 MCA 143.95 SMA 124.90 ECC .19731 INC 2.7384 V1 30.262
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.261 GAP -8.46 AZP 92.21 TAL 159.38 TAP 303.33 RCA 100.25 APO 149.54 V2 34.994
 RC 49.590 GL 17.83 GP 4.73 ZAL 54.32 ZAP 18.61 ETS 348.13 ZAE 160.75 ETE 355.81 ZAC 121.92 ETC 162.34 CLP -18.02

PLANETOCENTRIC CONIC

C3 17.888 VHL 4.229 CLA 28.76 RAL 22.79 RAD 6567.7 VEL 11.801 PTH 2.09 VHP 6.033 DPA 13.55 RAP 26.98 ECC 1.2944
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.77 0 30 54 3650.74 -20.57 141.98 249.68 69.45 1 31 44 3050.7 -23.18 134.25
 95.23 1 57 46 3369.49 -20.55 121.37 249.67 69.43 2 53 56 2769.5 -23.17 113.64
 100.00 3 44 49 3025.36 -26.11 97.92 251.62 74.91 4 35 14 2425.4 -27.93 89.59
 100.00 1 26 32 3470.11 -15.20 126.36 247.25 63.95 2 24 22 2870.1 -18.58 119.20
 110.00 6 7 56 2577.26 -33.34 65.62 253.32 81.95 6 50 53 1977.3 -34.09 56.46
 110.00 1 19 54 3490.96 -8.79 124.21 243.53 56.83 2 18 5 2891.0 -13.10 117.76

DIFFERENTIAL CORRECTIONS

TOE -.8389 TRA-1.4185 TC3 .4321 BAU .1034
 RDE -.2464 RRA -.0795 RC3 .0196 FAU .05236
 FDE 1.8524 FRA 2.4006 FC3-2.5341 BSP 8333
 BDE .8743 BRA 1.4207 BC3 .4325 FSP -1264

MID-COURSE EXECUTION ACCURACY

SGT 2496.0 SGR 356.0 SG3 429.0
 RRT .7367 RRF -.7517 RTF -.9495
 SGB 2521.2 R23 -.0677 R13 -.9502
 SG1 2509.8 SG2 239.4 THA 6.05

ORBIT DETERMINATION ACCURACY

ST 1313.0 SR 335.8 SS 1431.3
 CRT .9153 CRS .9529 CST .9942
 LSA 1965.0 MSA 155.4 SSA 13.9
 EL1 1348.8 EL2 131.7 ALF 13.30

LAUNCH DATE DEC 16 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.283 GAL 4.67 AZL 87.34 MCA 147.15 SMA 125.37 ECC .19184 INC 2.6590 V1 30.262
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.303 GAP -7.86 AZP 92.23 TAL 159.56 TAP 306.70 RCA 101.32 APO 149.42 V2 34.980
 RC 51.091 GL 17.90 GP 5.44 ZAL 54.60 ZAP 20.95 ETS 348.00 ZAE 159.73 ETE 359.33 ZAC 122.56 ETC 161.68 CLP -20.27

PLANETOCENTRIC CONIC
 C3 16.846 VHL 4.104 CLA 28.71 RAL 22.47 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 5.710 DPA 14.57 RAP 27.59 ECC 1.2772
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.05 0 31 54 3629.49 -20.86 140.54 248.40 69.82 1 32 23 3029.5 -23.42 132.77
 94.95 1 54 13 3362.95 -20.85 121.01 248.39 69.81 2 50 16 2763.0 -23.41 113.24
 100.00 3 44 54 3007.01 -26.43 96.65 250.29 75.50 4 35 1 2407.0 -28.16 88.28
 100.00 1 23 54 3460.66 -15.48 125.80 245.99 64.11 2 21 35 2860.7 -18.84 118.61
 110.00 6 7 15 2561.36 -33.48 64.40 251.86 82.66 6 49 56 1961.4 -34.13 55.22
 110.00 1 18 3 3479.08 -9.23 123.58 242.38 56.94 2 16 2 2879.1 -13.52 117.10

DIFFERENTIAL CORRECTIONS
 TOE -.8285 TRA-1.3797 TC3 .4950 BAU .1121
 RDE -.2429 RRA -.1007 RC3 .0531 FAU .05727
 FDE 2.0024 FRA 2.5754 FC3-2.9434 BSP .8414
 BOE .8634 BRA 1.3833 BC3 .4979 FSP -1411

MID-COURSE EXECUTION ACCURACY
 SGT 2515.0 SGR 377.6 SG3 476.8
 RRT .8023 RRF -.8208 RTF -.9523
 SGB 2543.1 R23 -.0849 R13 -.9532
 SG1 2533.3 SG2 223.8 TMA 6.92

ORBIT DETERMINATION ACCURACY
 ST 1331.1 SR 342.5 SS 1507.1
 CRT .9298 CRS .9626 CST .9946
 LSA 2034.3 MSA 148.0 SSA 13.4
 EL1 1368.9 EL2 122.6 ALF 13.57

LAUNCH DATE DEC 16 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.350 GAL 4.48 AZL 87.44 MCA 150.34 SMA 125.81 ECC .18684 INC 2.5645 V1 30.262
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.340 GAP -7.27 AZP 92.23 TAL 159.75 TAP 310.09 RCA 102.30 APO 149.31 V2 34.967
 RC 52.697 GL 17.82 GP 6.32 ZAL 54.86 ZAP 23.47 ETS 347.65 ZAE 158.94 ETE 2.94 ZAC 123.00 ETC 160.91 CLP -22.65

PLANETOCENTRIC CONIC
 C3 15.889 VHL 3.986 CLA 28.53 RAL 22.21 RAD 6567.6 VEL 11.716 PTH 2.06 VHP 5.404 DPA 15.70 RAP 28.00 ECC 1.2615
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.37 0 41 43 3581.00 -21.05 137.05 247.17 70.28 1 41 24 2981.0 -23.54 129.25
 93.63 1 42 18 3384.73 -21.03 122.68 247.16 70.27 2 38 43 2784.7 -23.53 114.88
 100.00 3 49 2 2976.69 -26.93 94.54 249.09 76.51 4 38 39 2376.7 -28.52 86.09
 100.00 1 17 40 3464.28 -15.38 126.01 244.66 64.05 2 15 24 2864.3 -18.74 118.84
 110.00 6 8 31 2540.06 -33.65 62.76 250.45 83.62 6 50 51 1940.1 -34.17 53.55
 110.00 1 14 41 3473.67 -9.43 123.29 241.22 56.99 2 12 34 2873.7 -13.71 116.80

DIFFERENTIAL CORRECTIONS
 TOE -.8106 TRA-1.3372 TC3 .5612 BAU .1210
 RDE -.2430 RRA -.1258 RC3 .0970 FAU .06287
 FDE 2.1584 FRA 2.7717 FC3-3.4257 BSP .8508
 BOE .8462 BRA 1.3431 BC3 .5696 FSP -1579

MID-COURSE EXECUTION ACCURACY
 SGT 2518.8 SGR 412.6 SG3 530.1
 RRT .8579 RRF -.8799 RTF -.9549
 SGB 2552.4 R23 -.1069 R13 -.9562
 SG1 2543.7 SG2 209.9 TMA 8.06

ORBIT DETERMINATION ACCURACY
 ST 1337.4 SR 354.6 SS 1582.1
 CRT .9434 CRS .9716 CST .9949
 LSA 2097.0 MSA 140.6 SSA 12.7
 EL1 1378.9 EL2 114.1 ALF 14.14

LAUNCH DATE DEC 16 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.411 GAL 4.31 AZL 87.55 MCA 153.53 SMA 126.21 ECC .18228 INC 2.4494 V1 30.262
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.373 GAP -6.70 AZP 92.19 TAL 159.95 TAP 313.48 RCA 103.20 APO 149.21 V2 34.954
 RC 54.398 GL 17.55 GP 7.43 ZAL 55.08 ZAP 26.18 ETS 347.07 ZAE 158.35 ETE 6.90 ZAC 123.19 ETC 160.03 CLP -25.18

PLANETOCENTRIC CONIC
 C3 15.004 VHL 3.874 CLA 28.17 RAL 22.03 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 5.115 DPA 16.99 RAP 28.18 ECC 1.2469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 36 29 3388.24 -22.92 123.61 246.65 72.90 2 32 57 2788.2 -25.04 115.59
 90.00 0 46 7 3551.67 -19.26 134.19 245.29 68.83 1 45 18 2951.7 -21.97 126.57
 100.00 3 57 38 2933.16 -27.58 91.47 247.99 78.00 4 46 31 2333.2 -28.96 82.93
 100.00 1 7 39 3481.99 -14.85 127.06 243.27 63.75 2 5 41 2882.0 -18.25 119.93
 110.00 6 12 16 2511.75 -33.85 60.57 249.09 84.90 6 54 8 1911.7 -34.18 51.34
 110.00 1 9 30 3476.17 -9.34 123.42 240.06 56.97 2 7 26 2876.2 -13.63 116.94

DIFFERENTIAL CORRECTIONS
 TOE -.7855 TRA-1.2929 TC3 .6236 BAU .1289
 RDE -.2474 RRA -.1567 RC3 .1546 FAU .06907
 FDE 2.3175 FRA 2.9947 FC3-3.9852 BSP .8562
 BOE .8235 BRA 1.3023 BC3 .6424 FSP -1766

MID-COURSE EXECUTION ACCURACY
 SGT 2507.9 SGR 466.3 SG3 589.4
 RRT .9008 RRF -.9260 RTF -.9572
 SGB 2550.9 R23 -.1342 R13 -.9591
 SG1 2543.0 SG2 199.7 TMA 9.57

ORBIT DETERMINATION ACCURACY
 ST 1331.8 SR 374.4 SS 1655.3
 CRT .9558 CRS .9795 CST .9953
 LSA 2153.1 MSA 133.2 SSA 12.0
 EL1 1379.3 EL2 106.3 ALF 15.13

LAUNCH DATE DEC 16 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.466 GAL 4.16 AZL 87.69 MCA 156.72 SMA 126.57 ECC .17814 INC 2.3058 V1 30.262
 RP 108.45 LAP .91 LOP 240.85 VP 37.401 GAP -6.15 AZP 92.12 TAL 160.15 TAP 316.87 RCA 104.02 APO 149.12 V2 34.942
 RC 56.186 GL 17.02 GP 8.88 ZAL 55.23 ZAP 29.14 ETS 346.21 ZAE 157.92 ETE 11.55 ZAC 123.08 ETC 158.99 CLP -27.87

PLANETOCENTRIC CONIC
 C3 14.177 VHL 3.765 CLA 27.57 RAL 21.97 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 4.844 DPA 18.51 RAP 28.06 ECC 1.2333
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 8 2 3271.84 -25.03 115.74 246.20 76.30 3 2 34 2671.8 -26.67 107.45
 90.00 0 14 6 3642.86 -16.92 139.86 243.32 66.95 1 14 49 3042.9 -19.90 132.45
 100.00 4 11 1 2875.39 -28.33 87.34 246.97 80.05 4 58 56 2275.4 -29.42 78.70
 100.00 0 53 48 3514.55 -13.86 128.97 241.84 63.25 1 52 23 2914.6 -17.34 121.91
 110.00 6 19 13 2474.17 -34.04 57.65 247.75 86.62 7 0 27 1874.2 -34.13 48.41
 110.00 1 2 5 3488.53 -8.88 124.08 238.92 56.85 2 0 14 2888.5 -13.18 117.63

DIFFERENTIAL CORRECTIONS
 TOE -.7472 TRA-1.2417 TC3 .6934 BAU .1387
 RDE -.2568 RRA -.1956 RC3 .2339 FAU .07628
 FDE 2.4608 FRA 3.2379 FC3-4.6581 BSP .8699
 BOE .7901 BRA 1.2570 BC3 .7318 FSP -1991

MID-COURSE EXECUTION ACCURACY
 SGT 2471.7 SGR 544.6 SG3 653.6
 RRT .9303 RRF -.9584 RTF -.9594
 SGB 2531.0 R23 -.1642 R13 -.9621
 SG1 2523.4 SG2 195.6 TMA 11.65

ORBIT DETERMINATION ACCURACY
 ST 1304.6 SR 403.7 SS 1716.3
 CRT .9664 CRS .9861 CST .9955
 LSA 2189.6 MSA 125.5 SSA 11.1
 EL1 1362.0 EL2 99.4 ALF 16.74

LAUNCH DATE DEC 16 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 372.731

RL 147.22 LAL .00 LOL 84.11 VL 27.516 GAL 4.01 AZL 87.88 MCA 159.91 SMA 126.90 ECC .17440 INC 2.1192 V1 30.262
 RP 108.49 LAP .73 LOP 244.03 VP 37.426 GAP -5.62 AZP 91.99 TAL 160.35 TAP 320.26 RCA 104.77 APO 149.03 V2 34.929
 RC 58.051 GL 16.10 GP 10.80 ZAL 55.30 ZAP 32.40 ETS 345.02 ZAE 157.55 ETE 17.31 ZAC 122.58 ETC 157.75 CLP -30.74

PLANETOCENTRIC CONIC

C3 13.390 VHL 3.659 DLA 26.62 RAL 22.09 RAD 6567.5 VEL 11.609 PTH 2.03 VHP 4.597 DPA 20.40 RAP 27.56 ECC 1.2204
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 37 20 3163.81 -26.55 108.19 245.56 79.78 3 30 4 2563.8 -27.69 99.71
 90.00 23 41 49 3725.89 -14.64 144.89 241.58 65.49 24 43 55 3125.9 -17.83 137.67
 100.00 4 29 46 2801.37 -29.09 81.96 246.00 82.78 5 16 27 2201.4 -29.78 73.23
 100.00 0 36 0 3563.57 -12.34 131.82 240.43 62.55 1 35 24 2963.6 -15.92 124.86
 110.00 6 30 23 2423.97 -34.17 53.74 246.43 88.93 7 10 47 1824.0 -33.94 44.50
 110.00 0 51 53 3513.73 -7.94 125.43 237.81 56.64 1 50 26 2913.7 -12.27 119.01

DIFFERENTIAL CORRECTIONS

TDE -.6881 TRA-1.1781 TC3 .7867 BAU .1540
 RDE -.2713 RRA -.2462 RC3 .3484 FAU .08491
 FDE 2.5571 FRA 3.4898 FC3-5.4902 BSP 9058
 BDE .7396 BRA 1.2035 BC3 .8604 FSP -2276

MID-COURSE EXECUTION ACCURACY

SGT 2397.9 SGR 656.8 SG3 720.5
 RRT .9488 RRF -.9788 RTF -.9622
 SGB 2486.3 R23 -.1883 R13 -.9664
 SGI 2478.1 SG2 200.8 TMA 14.67

ORBIT DETERMINATION ACCURACY

ST 1242.7 SR 444.1 SS 1749.7
 CRT .9746 CRS .9910 CST .9957
 LSA 2188.3 MSA 117.7 SSA 10.1
 EL1 1316.3 EL2 93.9 ALF 19.31

LAUNCH DATE DEC 16 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 379.298

RL 147.22 LAL .00 LOL 84.11 VL 27.560 GAL 3.89 AZL 88.13 MCA 163.10 SMA 127.20 ECC .17106 INC 1.8656 V1 30.262
 RP 108.53 LAP .54 LOP 247.21 VP 37.448 GAP -5.10 AZP 91.79 TAL 160.53 TAP 323.62 RCA 105.44 APO 148.96 V2 34.917
 RC 59.985 GL 14.59 GP 13.45 ZAL 55.25 ZAP 36.08 ETS 343.36 ZAE 156.98 ETE 24.73 ZAC 121.55 ETC 156.21 CLP -33.80

PLANETOCENTRIC CONIC

C3 12.631 VHL 3.554 DLA 25.14 RAL 22.49 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 4.379 DPA 22.88 RAP 26.54 ECC 1.2079
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 10 36 3044.11 -27.71 99.63 244.83 83.93 4 1 20 2444.1 -28.26 91.01
 90.00 23 11 45 3820.44 -11.90 150.48 240.03 64.11 24 15 26 3220.4 -15.28 143.44
 100.00 4 55 15 2706.71 -29.69 75.00 245.02 86.40 5 40 22 2106.7 -29.88 66.20
 100.00 0 13 43 3633.07 -10.12 135.79 239.11 61.72 1 14 16 3033.1 -13.83 128.96
 110.00 6 47 25 2355.76 -34.13 48.41 245.09 92.08 7 26 41 1755.8 -33.46 39.23
 110.00 0 38 2 3556.78 -6.32 127.71 236.80 56.34 1 37 19 2956.8 -10.70 121.36

DIFFERENTIAL CORRECTIONS

TDE -.6761 TRA-1.1718 TC3 .6800 BAU .1403
 RDE -.3050 RRA -.3303 RC3 .4776 FAU .08830
 FDE 2.7193 FRA 3.8989 FC3-6.0523 BSP 7927
 BDE .7417 BRA 1.2175 BC3 .8309 FSP -2322

MID-COURSE EXECUTION ACCURACY

SGT 2403.4 SGR 838.5 SG3 800.9
 RRT .9565 RRF -.9907 RTF -.9581
 SGB 2545.5 R23 -.2249 R13 -.9655
 SGI 2534.9 SG2 231.9 TMA 18.61

ORBIT DETERMINATION ACCURACY

ST 1257.0 SR 522.5 SS 1837.2
 CRT .9844 CRS .9951 CST .9969
 LSA 2284.2 MSA 102.9 SSA 10.4
 EL1 1358.6 EL2 85.1 ALF 22.35

LAUNCH DATE DEC 16 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 385.837

RL 147.22 LAL .00 LOL 84.11 VL 27.600 GAL 3.78 AZL 88.50 MCA 166.28 SMA 127.47 ECC .16808 INC 1.4988 V1 30.262
 RP 108.57 LAP .36 LOP 250.39 VP 37.466 GAP -4.59 AZP 91.46 TAL 160.70 TAP 326.98 RCA 106.04 APO 148.89 V2 34.906
 RC 61.981 GL 12.07 GR 17.30 ZAL 55.04 ZAP 40.36 ETS 341.07 ZAE 155.71 ETE 34.39 ZAC 119.73 ETC 154.26 CLP -37.05

PLANETOCENTRIC CONIC

C3 11.876 VHL 3.446 DLA 22.72 RAL 23.31 RAD 6567.5 VEL 11.544 PTH 2.01 VHP 4.206 DPA 26.36 RAP 24.74 ECC 1.1954
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 52 0 2897.98 -28.31 88.99 243.95 89.22 4 40 18 2298.0 -28.12 80.33
 90.00 22 36 55 3940.45 -8.24 157.40 238.72 62.81 23 42 35 3340.4 -11.82 150.55
 100.00 5 30 16 2581.12 -29.87 65.67 243.94 91.30 6 13 17 1981.1 -29.37 56.90
 100.00 23 41 20 3732.54 -6.87 141.38 237.98 60.84 24 43 32 3132.5 -10.70 134.69
 110.00 7 13 11 2259.15 -33.64 40.91 243.64 96.49 7 50 50 1659.2 -32.37 31.91
 110.00 0 18 50 3627.28 -3.65 131.42 235.99 55.99 1 19 17 3027.3 -8.09 125.14

DIFFERENTIAL CORRECTIONS

TDE -.5944 TRA-1.1097 TC3 .7236 BAU .1611
 RDE -.3379 RRA -.4432 RC3 .7115 FAU .09576
 FDE 2.6468 FRA 4.2060 FC3-6.9804 BSP 8171
 BDE .6837 BRA 1.1949 BC3 1.0148 FSP -2567

MID-COURSE EXECUTION ACCURACY

SGT 2286.0 SGR 1092.8 SG3 863.9
 RRT .9597 RRF -.9964 RTF -.9586
 SGB 2533.8 R23 -.2223 R13 -.9713
 SGI 2518.4 SG2 278.8 TMA 24.97

ORBIT DETERMINATION ACCURACY

ST 1156.2 SR 611.0 SS 1801.1
 CRT .9898 CRS .9973 CST .9975
 LSA 2224.0 MSA 87.4 SSA 10.0
 EL1 1305.4 EL2 77.1 ALF 27.72

LAUNCH DATE DEC 16 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 392.354

RL 147.22 LAL .00 LOL 84.11 VL 27.635 GAL 3.68 AZL 89.08 MCA 169.46 SMA 127.71 ECC .16544 INC .9166 V1 30.262
 RP 108.60 LAP .17 LOP 253.57 VP 37.481 GAP -4.10 AZP 90.90 TAL 160.86 TAP 330.32 RCA 106.58 APO 148.84 V2 34.894
 RC 64.032 GL 7.60 GP 23.22 ZAL 54.67 ZAP 45.65 ETS 337.85 ZAE 152.61 ETE 46.40 ZAC 116.60 ETC 151.72 CLP -40.48

PLANETOCENTRIC CONIC

C3 11.137 VHL 3.337 DLA 18.50 RAL 24.90 RAD 6567.4 VEL 11.512 PTH 2.01 VHP 4.118 DPA 31.62 RAP 21.62 ECC 1.1833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 36 2700.62 -27.65 74.61 242.94 96.39 5 33 37 2100.6 -26.47 66.14
 90.00 21 52 56 4111.08 -2.83 167.02 238.03 61.81 23 1 27 3511.1 -6.58 160.34
 100.00 6 21 5 2402.40 -28.86 52.49 242.76 98.15 7 1 8 1802.4 -27.43 43.98
 100.00 23 3 8 3884.54 -1.76 149.77 237.43 60.15 24 7 53 3284.5 -5.72 143.22
 110.00 7 53 35 2112.99 -31.96 29.85 242.10 102.83 8 28 48 1513.0 -29.86 21.26
 110.00 23 47 8 3746.71 .91 137.65 235.76 55.83 24 49 34 3146.7 -3.58 131.44

DIFFERENTIAL CORRECTIONS

TDE -.4997 TRA-1.0529 TC3 .7261 BAU .1938
 RDE -.3731 RRA -.6292 RC3 1.0800 FAU .09981
 FDE 2.3365 FRA 4.4724 FC3-7.7586 BSP 8493
 BDE .6236 BRA 1.2266 BC3 1.3014 FSP -2715

MID-COURSE EXECUTION ACCURACY

SGT 2145.8 SGR 1492.5 SG3 899.8
 RRT .9587 RRF -.9988 RTF -.9569
 SGB 2613.8 R23 -.1964 R13 -.9793
 SGI 2590.1 SG2 351.7 TMA 34.42

ORBIT DETERMINATION ACCURACY

ST 1031.2 SR 726.3 SS 1669.4
 CRT .9951 CRS .9985 CST .9989
 LSA 2091.4 MSA 60.3 SSA 11.6
 EL1 1259.9 EL2 58.8 ALF 35.12

LAUNCH DATE DEC 16 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.666 GAL 3.60 AZL 90.16 HCA 172.64 SMA 127.92 ECC .16314 INC .1342 V1 30.262
 RP 108.64 LAP -.02 LOP 256.74 VP 37.494 GAP -3.62 AZP 89.84 TAL 160.99 TAP 333.62 RCA 107.05 APO 148.79 V2 34.883
 RC 66.131 GL -1.35 GP 33.12 ZAL 54.49 ZAP 52.90 ETS 333.29 ZAE 145.34 ETE 59.51 ZAC 111.04 ETC 148.43 CLP -43.92

PLANETOCENTRIC CONIC
 C3 10.604 VHL 3.256 CLA 10.08 RAL 28.04 RAD 6567.4 VEL 11.489 PTH 2.00 VHP 4.243 DPA 40.30 RAP 15.69 ECC 1.1745
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 17 26 2391.84 -23.44 53.03 242.34 106.36 6 57 18 1791.8 -20.97 45.23
 90.00 20 49 9 4399.80 6.44 183.17 239.40 62.37 22 2 29 3799.8 2.69 176.50
 100.00 7 43 46 2113.42 -24.37 32.24 242.03 107.87 8 19 0 1513.4 -21.70 24.46
 100.00 22 5 30 4153.46 7.30 164.59 238.93 60.93 23 14 44 3553.5 3.37 158.01
 110.00 9 3 21 1864.41 -26.84 12.34 241.04 112.01 9 34 25 1264.4 -23.62 4.66
 110.00 23 2 25 3975.24 9.56 149.70 237.56 57.02 24 8 41 3375.2 5.15 143.39

DIFFERENTIAL CORRECTIONS
 TOE -.3875 TRA-1.0062 TC3 .6710 BAU .2535
 ROE -.3719 RRA -.9712 RC3 1.6571 FAU .09380
 FDE 1.5810 FRA 4.4930 FC3 -7.6576 BSP 9330
 BDE .5370 BRA 1.3985 BC3 1.7878 FSP -2584

MID-COURSE EXECUTION ACCURACY
 SGT 1972.1 SGR 2146.0 SG3 851.3
 RRT .9543 RRF -.9997 RTF -.9528
 SGB 2914.5 R23 -.1421 R13 -.9896
 SG1 2881.3 SG2 439.0 THA 47.53

ORBIT DETERMINATION ACCURACY
 ST 869.4 SR 836.8 SS 1350.0
 CRT .9997 CRS .9991 CST .9987
 LSA 1810.2 MSA 41.2 SSA 12.8
 EL1 1206.6 EL2 14.3 ALF 43.91

LAUNCH DATE DEC 16 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.694 GAL 3.53 AZL 92.85 HCA 175.80 SMA 128.10 ECC .16116 INC 2.8473 V1 30.262
 RP 108.67 LAP -.21 LOP 259.91 VP 37.504 GAP -3.15 AZP 87.16 TAL 161.09 TAP 336.89 RCA 107.46 APO 148.75 V2 34.873
 RC 68.274 GL -22.97 GP 51.30 ZAL 58.11 ZAP 64.42 ETS 327.09 ZAE 129.04 ETE 70.37 ZAC 100.55 ETC 144.58 CLP -46.32

PLANETOCENTRIC CONIC
 C3 12.394 VHL 3.521 CLA -10.35 RAL 35.15 RAD 6567.5 VEL 11.566 PTH 2.02 VHP 5.207 DPA 55.60 RAP .78 ECC 1.2040
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 21 44 1779.20 -7.18 15.54 248.49 117.46 9 51 23 1179.2 -3.44 8.86
 90.00 18 41 38 5077.30 24.20 224.78 251.87 74.84 20 6 15 4477.3 21.89 216.87
 100.00 10 37 56 1533.36 -8.09 356.98 248.00 118.87 11 3 29 933.4 -4.18 350.38
 100.00 20 8 7 4798.37 25.20 203.95 251.56 73.36 21 28 6 4198.4 22.68 196.06
 110.00 11 34 30 1356.20 -10.48 342.09 246.56 122.72 11 57 6 756.2 -6.09 335.75
 110.00 21 28 2 4548.29 27.83 183.97 250.56 69.30 22 43 51 3948.3 24.76 176.15

DIFFERENTIAL CORRECTIONS
 TOE -.2780 TRA-1.0169 TC3 .4635 BAU .3520
 ROE -.1403 RRA-1.7041 RC3 2.0729 FAU .06247
 FDE .2744 FRA 3.6167 FC3-4.3633 BSP 11429
 BDE .3114 BRA 1.9844 BC3 2.1241 FSP -1797

MID-COURSE EXECUTION ACCURACY
 SGT 1772.5 SGR 3182.8 SG3 582.4
 RRT .9435 RRF -1.0000 RTF -.9434
 SGB 3643.1 R23 -.0777 R13 -.9970
 SG1 3606.0 SG2 518.4 THA 61.64

ORBIT DETERMINATION ACCURACY
 ST 677.8 SR 877.1 SS 833.1
 CRT .8924 CRS .9998 CST .8833
 LSA 1358.6 MSA 277.6 SSA .9
 EL1 1080.4 EL2 248.3 ALF 53.14

LAUNCH DATE DEC 16 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.717 GAL 3.49 AZL 111.18 HCA 178.90 SMA 128.26 ECC .15957 INC21.1679 V1 30.262
 RP 108.70 LAP -.40 LOP 263.09 VP 37.512 GAP -2.72 AZP 68.83 TAL 161.09 TAP 339.99 RCA 107.80 APO 148.73 V2 34.862
 RC 70.456 GL -64.22 GP 82.30 ZAL 80.45 ZAP 82.85 ETS 274.39 ZAE 92.56 ETE 27.86 ZAC 83.05 ETC 97.34 CLP 21.65

PLANETOCENTRIC CONIC
 C3 123.189 VHL 11.099 CLA -50.98 RAL 48.53 RAD 6570.3 VEL 15.637 PTH 2.78 VHP 15.707 DPA 73.15 RAP 274.56 ECC 3.0274
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.66 10 39 15 2095.20 12.04 54.85 308.56 139.92 11 14 10 1495.2 18.10 49.86
 134.34 19 10 49 5844.46 12.06 270.96 308.57 139.92 20 48 14 5244.5 18.12 265.97
 45.66 10 39 15 2095.20 12.04 54.85 308.56 139.92 11 14 10 1495.2 18.10 49.86
 134.34 19 10 49 5844.46 12.06 270.96 308.57 139.92 20 48 14 5244.5 18.12 265.97
 45.66 10 39 15 2095.20 12.04 54.85 308.56 139.92 11 14 10 1495.2 18.10 49.86
 134.34 19 10 49 5844.46 12.06 270.96 308.57 139.92 20 48 14 5244.5 18.12 265.97

DIFFERENTIAL CORRECTIONS
 TOE .2820 TRA-5.3657 TC3 -.1508 BAU .2492
 ROE 1.3122 RRA-1.7859 RC3 -.0125 FAU-.00675
 FDE -.2481 FRA 1.7068 FC3 .0474 BSP 7302
 BDE 1.3422 BRA 5.6551 BC3 .1513 FSP -193

MID-COURSE EXECUTION ACCURACY
 SGT 4414.3 SGR 1613.6 SG3 121.7
 RRT .9195 RRF -.9406 RTF -.9983
 SGB 4699.9 R23 -.0136 R13 -.9999
 SG1 4661.4 SG2 600.7 THA 18.90

ORBIT DETERMINATION ACCURACY
 ST 1327.8 SR 807.4 SS 595.6
 CRT .6328 CRS .7653 CST .9827
 LSA 1561.7 MSA 575.0 SSA .4
 EL1 1443.7 EL2 575.0 ALF 25.34

LAUNCH DATE DEC 16 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.737 GAL 3.41 AZL 74.84 HCA 182.22 SMA 128.40 ECC .15795 INC15.1611 V1 30.262
 RP 108.73 LAP -.58 LOP 266.25 VP 37.518 GAP -2.23 AZP 105.15 TAL 161.28 TAP 343.51 RCA 108.12 APO 148.68 V2 34.853
 RC 72.672 GL 61.25 GP -72.22 ZAL 77.36 ZAP 78.34 ETS 49.77 ZAE 104.69 ETE 300.20 ZAC 115.67 ETC 227.03 CLP -48.57

PLANETOCENTRIC CONIC
 C3 68.204 VHL 8.259 CLA 60.86 RAL 337.10 RAD 6569.3 VEL 13.768 PTH 2.52 VHP 8.054 DPA -53.40 RAP 71.77 ECC 2.1225
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.58 17 18 53 4679.02 -21.16 229.96 234.64 31.48 18 36 52 4079.0 -27.92 225.66
 146.42 3 1 17 3001.50 -21.15 91.94 234.63 31.48 3 51 19 2401.5 -27.91 87.64
 33.58 17 18 53 4679.02 -21.16 229.96 234.64 31.48 18 36 52 4079.0 -27.92 225.66
 146.42 3 1 17 3001.50 -21.15 91.94 234.63 31.48 3 51 19 2401.5 -27.91 87.64
 33.58 17 18 53 4679.02 -21.16 229.96 234.64 31.48 18 36 52 4079.0 -27.92 225.66
 146.42 3 1 17 3001.50 -21.15 91.94 234.63 31.48 3 51 19 2401.5 -27.91 87.64

DIFFERENTIAL CORRECTIONS
 TOE-3.1912 TRA -.3391 TC3 .0479 BAU .2142
 ROE 5.4151 RRA -.2200 RC3 -.2300 FAU .01462
 FDE 4.4887 FRA -.0304 FC3 -.1856 BSP 14868
 BDE 6.2854 BRA .4042 BC3 .2349 FSP -.952

MID-COURSE EXECUTION ACCURACY
 SGT 2267.5 SGR 3789.0 SG3 270.4
 RRT -.9540 RRF .9976 RTF -.9721
 SGB 4415.6 R23 -.0106 R13 .9999
 SG1 4376.2 SG2 588.6 THA 120.33

ORBIT DETERMINATION ACCURACY
 ST 2218.7 SR 3758.0 SS 2167.0
 CRT -.9959 CRS -.9998 CST .9976
 LSA 4869.4 MSA 172.7 SSA .9
 EL1 4360.7 EL2 172.7 ALF 120.51

LAUNCH DATE DEC 16 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 424.664

RL 147.22 LAL .00 LOL 84.11 VL 27.753 GAL 3.39 AZL 81.79 MCA 185.37 SMA 128.52 ECC .15684 INC 8.2101 V1 30.262
 RP 108.76 LAP -.77 LOP 269.42 VP 37.522 GAP -1.80 AZP 98.18 TAL 161.26 TAP 346.63 RCA 108.36 APO 148.67 V2 34.844
 RC 74.919 GL 49.66 GP -48.08 ZAL 69.76 ZAP 71.77 ETS 25.03 ZAE 129.67 ETE 284.13 ZAC 121.71 ETC 198.33 CLP -62.08

PLANETOCENTRIC CONIC

C3 26.948 VHL 5.191 DLA 54.47 RAL 356.14 RAD 6568.1 VEL 12.179 PTH 2.19 VHP 4.277 DPA -35.63 RAP 47.45 ECC 1.4435
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.31 18 55 24 4407.23 -31.66 212.29 240.03 43.06 20 8 52 3807.2 -37.32 205.85
 138.69 3 56 43 2810.87 -31.64 84.23 240.02 43.05 4 43 34 2210.9 -37.31 77.79
 41.31 18 55 24 4407.23 -31.66 212.29 240.03 43.06 20 8 52 3807.2 -37.32 205.85
 138.69 3 56 43 2810.87 -31.64 84.23 240.02 43.05 4 43 34 2210.9 -37.31 77.79
 41.31 18 55 24 4407.23 -31.66 212.29 240.03 43.06 20 8 52 3807.2 -37.32 205.85
 138.69 3 56 43 2810.87 -31.64 84.23 240.02 43.05 4 43 34 2210.9 -37.31 77.79

DIFFERENTIAL CORRECTIONS

TDE -.6612 TRA -.4709 TC3 .0354 BAU .3016
 RDE 2.8636 RRA .5479 RC3 -.8365 FAU .07702
 FDE 7.9800 FRA 1.7201 FC3-2.4743 BSP 11238
 BDE 2.9390 BRA .7224 BC3 .8373 FSP -2629

MID-COURSE EXECUTION ACCURACY

SGT 1154.9 SGR 3439.0 SG3 841.5
 RRT -.8231 RRF .9993 RTF -.8397
 SGB 3627.7 R23 -.0203 R13 .9995
 SG1 3572.4 SG2 631.3 TMA 105.96

ORBIT DETERMINATION ACCURACY

ST 777.6 SR 3176.1 SS 3274.8
 CRT -.9679 CRS -.9999 CST .9710
 LSA 4623.9 MSA 190.1 SSA 2.0
 EL1 3264.4 EL2 190.0 ALF 103.38

LAUNCH DATE DEC 16 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 431.047

RL 147.22 LAL .00 LOL 84.11 VL 27.767 GAL 3.37 AZL 83.60 MCA 188.53 SMA 128.61 ECC .15597 INC 6.3978 V1 30.262
 RP 108.78 LAP -.95 LOP 272.59 VP 37.524 GAP -1.38 AZP 96.33 TAL 161.23 TAP 349.76 RCA 108.55 APO 148.67 V2 34.835
 RC 77.194 GL 43.53 GP -35.38 ZAL 66.49 ZAP 72.38 ETS 15.69 ZAE 142.97 ETE 279.08 ZAC 121.71 ETC 187.50 CLP -68.20

PLANETOCENTRIC CONIC

C3 20.112 VHL 4.485 DLA 49.91 RAL 2.93 RAD 6567.8 VEL 11.895 PTH 2.11 VHP 3.467 DPA -25.33 RAP 38.44 ECC 1.3310
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.02 19 39 50 4296.73 -32.76 201.73 240.15 49.98 20 51 27 3696.7 -37.67 194.41
 132.98 4 6 29 2778.74 -32.75 82.04 240.14 49.97 4 52 47 2178.7 -37.66 74.73
 47.02 19 39 50 4296.73 -32.76 201.73 240.15 49.98 20 51 27 3696.7 -37.67 194.41
 132.98 4 6 29 2778.74 -32.75 82.04 240.14 49.97 4 52 47 2178.7 -37.66 74.73
 47.02 19 39 50 4296.73 -32.76 201.73 240.15 49.98 20 51 27 3696.7 -37.67 194.41
 132.98 4 6 29 2778.74 -32.75 82.04 240.14 49.97 4 52 47 2178.7 -37.66 74.73

DIFFERENTIAL CORRECTIONS

TDE -.1855 TRA -.3744 TC3 -.0998 BAU .2623
 RDE 1.8607 RRA .5839 RC3 -.9705 FAU .12346
 FDE 9.4675 FRA 3.2610 FC3-5.3145 BSP 9062
 BDE 1.8699 BRA .6936 BC3 .9756 FSP -3960

MID-COURSE EXECUTION ACCURACY

SGT 784.7 SGR 2784.0 SG3 1254.7
 RRT -.6160 RRF .9992 RTF -.6357
 SGB 2892.5 R23 -.0135 R13 .9995
 SG1 2827.7 SG2 608.6 TMA 100.33

ORBIT DETERMINATION ACCURACY

ST 325.3 SR 2402.7 SS 3669.6
 CRT -.8198 CRS -.9999 CST .8277
 LSA 4394.3 MSA 185.4 SSA 2.5
 EL1 2417.5 EL2 185.1 ALF 96.37

LAUNCH DATE DEC 16 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 437.413

RL 147.22 LAL .00 LOL 84.11 VL 27.778 GAL 3.37 AZL 84.44 MCA 191.70 SMA 128.68 ECC .15533 INC 5.5614 V1 30.262
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.524 GAP -1.96 AZP 95.45 TAL 161.15 TAP 352.85 RCA 108.70 APO 148.67 V2 34.827
 RC 79.493 GL 39.96 GP -27.93 ZAL 64.71 ZAP 75.87 ETS 9.96 ZAE 150.85 ETE 272.00 ZAC 119.75 ETC 181.29 CLP -73.96

PLANETOCENTRIC CONIC

C3 17.506 VHL 4.184 DLA 47.09 RAL 6.28 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 3.137 DPA -19.55 RAP 32.81 ECC 1.2881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.66 20 5 29 4234.03 -32.53 195.34 239.93 53.86 21 16 3 3634.0 -36.99 187.67
 129.34 4 7 30 2776.16 -32.52 81.58 239.92 53.85 4 53 46 2176.2 -36.98 73.91
 50.66 20 5 29 4234.03 -32.53 195.34 239.93 53.86 21 16 3 3634.0 -36.99 187.67
 129.34 4 7 30 2776.16 -32.52 81.58 239.92 53.85 4 53 46 2176.2 -36.98 73.91
 50.66 20 5 29 4234.03 -32.53 195.34 239.93 53.86 21 16 3 3634.0 -36.99 187.67
 129.34 4 7 30 2776.16 -32.52 81.58 239.92 53.85 4 53 46 2176.2 -36.98 73.91

DIFFERENTIAL CORRECTIONS

TDE .1113 TRA -.2536 TC3 -.3046 BAU .2294
 RDE 1.3883 RRA .5418 RC3 -.9316 FAU .15185
 FDE10.1228 FRA 4.3841 FC3-7.5097 BSP 7320
 BDE 1.3928 BRA .5982 BC3 .9802 FSP -4782

MID-COURSE EXECUTION ACCURACY

SGT 590.2 SGR 2325.9 SG3 1519.7
 RRT -.0489 RRF .9988 RTF -.0753
 SGB 2399.6 R23 .0231 R13 .9989
 SG1 2326.1 SG2 589.4 TMA 90.76

ORBIT DETERMINATION ACCURACY

ST 216.1 SR 1929.2 SS 3824.8
 CRT .5757 CRS -.9998 CST -.5607
 LSA 4285.4 MSA 181.2 SSA 3.2
 EL1 1933.2 EL2 176.4 ALF 86.28

LAUNCH DATE DEC 16 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 443.758

RL 147.22 LAL .00 LOL 84.11 VL 27.786 GAL 3.38 AZL 84.92 MCA 194.87 SMA 128.74 ECC .15493 INC 5.0780 V1 30.262
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.524 GAP -1.55 AZP 94.91 TAL 161.04 TAP 355.90 RCA 108.80 APO 148.69 V2 34.820
 RC 81.813 GL 37.63 GP -23.06 ZAL 63.53 ZAP 80.56 ETS 6.10 ZAE 155.62 ETE 261.78 ZAC 117.16 ETC 177.35 CLP -79.73

PLANETOCENTRIC CONIC

C3 16.173 VHL 4.022 DLA 45.22 RAL 8.35 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 2.965 DPA -16.13 RAP 28.41 ECC 1.2662
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.15 20 22 47 4192.73 -32.10 191.11 239.86 56.26 21 32 40 3592.7 -36.28 183.27
 126.85 4 6 42 2781.06 -32.09 81.68 239.85 56.25 4 53 3 2181.1 -36.27 73.85
 53.15 20 22 47 4192.73 -32.10 191.11 239.86 56.26 21 32 40 3592.7 -36.28 183.27
 126.85 4 6 42 2781.06 -32.09 81.68 239.85 56.25 4 53 3 2181.1 -36.27 73.85
 53.15 20 22 47 4192.73 -32.10 191.11 239.86 56.26 21 32 40 3592.7 -36.28 183.27
 126.85 4 6 42 2781.06 -32.09 81.68 239.85 56.25 4 53 3 2181.1 -36.27 73.85

DIFFERENTIAL CORRECTIONS

TDE .3635 TRA -.1173 TC3 -.5472 BAU .2196
 RDE 1.1127 RRA .4876 RC3 -.8555 FAU .17086
 FDE10.3733 FRA 5.1657 FC3-9.1461 BSP 6197
 BDE 1.1706 BRA .5015 BC3 1.0155 FSP -5357

MID-COURSE EXECUTION ACCURACY

SGT 719.9 SGR 1989.8 SG3 1688.0
 RRT .6213 RRF .9980 RTF .5982
 SGB 2116.0 R23 .0929 R13 .9940
 SG1 2043.5 SG2 549.3 TMA 76.33

ORBIT DETERMINATION ACCURACY

ST 522.9 SR 1612.8 SS 3870.3
 CRT .9488 CRS -.9997 CST -.9409
 LSA 4221.7 MSA 177.9 SSA 3.9
 EL1 1688.1 EL2 157.8 ALF 72.74

LAUNCH DATE DEC 16 1968

FLIGHT TIME 166.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 450.084
 RL 147.22 LAL .00 LOL 84.11 VL 27.792 GAL 3.40 AZL 85.24 HCA 198.03 SMA 128.78 ECC .15475 INC 4.7616 V1 30.262
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.522 GAP -.15 AZP 94.53 TAL 160.88 TAP 358.91 RCA 108.85 APO 148.71 V2 34.813
 RC 84.153 GL 35.94 GP -19.59 ZAL 62.63 ZAP 85.79 ETS 3.35 ZAE 158.06 ETE 248.88 ZAC 114.37 ETC 174.66 CLP -85.53

PLANETOCENTRIC CONIC

C3 15.393 VHL 3.923 CLA 43.89 RAL 9.85 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 2.870 DPA -14.02 RAP 24.59 ECC 1.2533
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.95 20 35 43 4163.30 -31.67 188.09 239.96 57.87 21 45 6 3563.3 -35.66 180.17
 125.05 4 5 45 2788.11 -31.66 82.00 239.95 57.86 4 52 13 2188.1 -35.65 74.08
 54.95 20 35 43 4163.30 -31.67 188.09 239.96 57.87 21 45 6 3563.3 -35.66 180.17
 125.05 4 5 45 2788.11 -31.66 82.00 239.95 57.86 4 52 13 2188.1 -35.65 74.08
 54.95 20 35 43 4163.30 -31.67 188.09 239.96 57.87 21 45 6 3563.3 -35.66 180.17
 125.05 4 5 45 2788.11 -31.66 82.00 239.95 57.86 4 52 13 2188.1 -35.65 74.08

DIFFERENTIAL CORRECTIONS

TOE .5963 TRA .0282 TC3 -.8179 BAU .2311
 ROE .9289 RRA .4349 RC3 -.7692 FAU .18325
 FDE10.3680 FRA 5.6967 FC-10.3064 BSP 5691
 BOE 1.1038 BRA .4358 BC3 1.1228 FSP -5757

MID-COURSE EXECUTION ACCURACY

SGT 1083.3 SGR 1726.5 SG3 1787.2
 RRT .8656 RRF .9966 RTF .8495
 SGB 2038.2 R23 .1641 R13 .9833
 SG1 1982.8 SG2 472.3 THA 59.59

ORBIT DETERMINATION ACCURACY

ST 871.2 SR 1382.1 SS 3852.4
 CRT .9851 CRS -.9995 CST -.9790
 LSA 4180.9 MSA 175.8 SSA 4.6
 EL1 1628.8 EL2 127.2 ALF 57.94

LAUNCH DATE DEC 16 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 456.589
 RL 147.22 LAL .00 LOL 84.11 VL 27.795 GAL 3.43 AZL 85.46 HCA 201.20 SMA 128.80 ECC .15480 INC 4.5371 V1 30.262
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.518 GAP .25 AZP 94.23 TAL 160.67 TAP 1.87 RCA 108.86 APO 148.74 V2 34.807
 RC 86.508 GL 34.64 GP -16.95 ZAL 61.87 ZAP 91.23 ETS 1.30 ZAE 158.58 ETE 235.12 ZAC 111.56 ETC 172.71 CLP -91.29

PLANETOCENTRIC CONIC

C3 14.911 VHL 3.861 CLA 42.88 RAL 11.07 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 2.825 DPA -12.66 RAP 21.15 ECC 1.2454
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.34 20 46 10 4141.29 -31.28 185.84 240.24 59.02 21 55 11 3541.3 -35.13 177.87
 123.66 4 5 4 2795.84 -31.27 82.41 240.23 59.01 4 51 40 2195.8 -35.12 74.44
 56.34 20 46 10 4141.29 -31.28 185.84 240.24 59.02 21 55 11 3541.3 -35.13 177.87
 123.66 4 5 4 2795.84 -31.27 82.41 240.23 59.01 4 51 40 2195.8 -35.12 74.44
 56.34 20 46 10 4141.29 -31.28 185.84 240.24 59.02 21 55 11 3541.3 -35.13 177.87
 123.66 4 5 4 2795.84 -31.27 82.41 240.23 59.01 4 51 40 2195.8 -35.12 74.44

DIFFERENTIAL CORRECTIONS

TOE .8161 TRA .1800 TC3 -1.1045 BAU .2584
 ROE .7953 RRA .3865 RC3 -.6782 FAU .18975
 FDE10.1770 FRA 6.0412 FC-11.0167 BSP 5810
 BOE 1.1395 BRA .4263 BC3 1.2961 FSP -5983

MID-COURSE EXECUTION ACCURACY

SGT 1525.3 SGR 1509.8 SG3 1833.0
 RRT .9384 RRF .9944 RTF .9271
 SGB 2146.2 R23 .1935 R13 .9755
 SG1 2112.8 SG2 376.7 THA 44.69

ORBIT DETERMINATION ACCURACY

ST 1216.1 SR 1203.3 SS 3794.0
 CRT .9943 CRS -.9991 CST -.9890
 LSA 4158.2 MSA 174.5 SSA 5.4
 EL1 1708.4 EL2 91.1 ALF 44.70

LAUNCH DATE DEC 16 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 462.673
 RL 147.22 LAL .00 LOL 84.11 VL 27.796 GAL 3.48 AZL 85.63 HCA 204.36 SMA 128.81 ECC .15505 INC 4.3687 V1 30.262
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.514 GAP .64 AZP 93.98 TAL 160.43 TAP 4.79 RCA 108.84 APO 148.78 V2 34.802
 RC 88.877 GL 33.56 GP -14.85 ZAL 61.16 ZAP 96.70 ETS 359.73 ZAE 157.59 ETE 222.66 ZAC 108.85 ETC 171.25 CLP -96.93

PLANETOCENTRIC CONIC

C3 14.615 VHL 3.823 CLA 42.09 RAL 12.16 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 2.817 DPA -11.76 RAP 18.03 ECC 1.2405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.45 20 55 6 4124.35 -30.91 184.09 240.66 59.87 22 3 50 3524.3 -34.66 176.10
 122.55 4 4 49 2803.84 -30.90 82.86 240.65 59.86 4 51 33 2203.8 -34.65 74.87
 57.45 20 55 6 4124.35 -30.91 184.09 240.66 59.87 22 3 50 3524.3 -34.66 176.10
 122.55 4 4 49 2803.84 -30.90 82.86 240.65 59.86 4 51 33 2203.8 -34.65 74.87
 57.45 20 55 6 4124.35 -30.91 184.09 240.66 59.87 22 3 50 3524.3 -34.66 176.10
 122.55 4 4 49 2803.84 -30.90 82.86 240.65 59.86 4 51 33 2203.8 -34.65 74.87

DIFFERENTIAL CORRECTIONS

TOE 1.0232 TRA .3354 TC3 -1.3948 BAU .2956
 ROE .6921 RRA .3418 RC3 -.5866 FAU .19128
 FDE 9.8331 FRA 6.2311 FC-11.3306 BSP 6460
 BOE 1.2353 BRA .4789 BC3 1.5131 FSP -6057

MID-COURSE EXECUTION ACCURACY

SGT 1986.9 SGR 1324.3 SG3 1834.1
 RRT .9640 RRF .9911 RTF .9570
 SGB 2387.8 R23 .1788 R13 .9748
 SG1 2369.5 SG2 295.1 THA 33.31

ORBIT DETERMINATION ACCURACY

ST 1547.3 SR 1057.9 SS 3703.6
 CRT .9978 CRS -.9985 CST -.9929
 LSA 4147.2 MSA 173.7 SSA 6.0
 EL1 1873.4 EL2 57.5 ALF 34.34

LAUNCH DATE DEC 16 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 468.937
 RL 147.22 LAL .00 LOL 84.11 VL 27.795 GAL 3.54 AZL 85.76 HCA 207.52 SMA 128.80 ECC .15552 INC 4.2369 V1 30.262
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.509 GAP 1.03 AZP 93.76 TAL 160.13 TAP 7.66 RCA 108.77 APO 148.84 V2 34.797
 RC 91.256 GL 32.63 GP -13.11 ZAL 60.46 ZAP 102.07 ETS 358.51 ZAE 155.60 ETE 212.64 ZAC 106.33 ETC 170.15 CLP -102.40

PLANETOCENTRIC CONIC

C3 14.449 VHL 3.801 CLA 41.45 RAL 13.19 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 2.839 DPA -11.13 RAP 15.22 ECC 1.2378
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.37 21 3 9 4110.97 -30.57 182.70 241.23 60.52 22 11 40 3511.0 -34.23 174.69
 121.63 4 4 59 2812.13 -30.56 83.36 241.22 60.51 4 51 52 2212.1 -34.22 75.35
 58.37 21 3 9 4110.97 -30.57 182.70 241.23 60.52 22 11 40 3511.0 -34.23 174.69
 121.63 4 4 59 2812.13 -30.56 83.36 241.22 60.51 4 51 52 2212.1 -34.22 75.35
 58.37 21 3 9 4110.97 -30.57 182.70 241.23 60.52 22 11 40 3511.0 -34.23 174.69
 121.63 4 4 59 2812.13 -30.56 83.36 241.22 60.51 4 51 52 2212.1 -34.22 75.35

DIFFERENTIAL CORRECTIONS

TOE 1.2155 TRA .4913 TC3 -1.6796 BAU .3384
 ROE .6091 RRA .3001 RC3 -.4975 FAU .18885
 FDE 9.3635 FRA 6.2833 FC-11.3153 BSP 7463
 BOE 1.3595 BRA .5757 BC3 1.7517 FSP -6016

MID-COURSE EXECUTION ACCURACY

SGT 2442.0 SGR 1161.9 SG3 1797.5
 RRT .9731 RRF .9860 RTF .9709
 SGB 2704.3 R23 .1380 R13 .9776
 SG1 2693.4 SG2 242.6 THA 25.06

ORBIT DETERMINATION ACCURACY

ST 1856.4 SR 935.8 SS 3585.5
 CRT .9994 CRS -.9977 CST -.9948
 LSA 4141.0 MSA 173.2 SSA 6.7
 EL1 2078.7 EL2 29.5 ALF 26.74

LAUNCH DATE DEC 16 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

RL 147.22 LAL .00 LOL 84.11 VL 27.792 GAL 3.62 AZL 85.87 MCA 210.69 SMA 128.79 ECC .15618 INC 4.1305 V1 30.262
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.503 GAP 1.41 AZP 93.55 TAL 159.79 TAP 10.48 RCA 108.67 APO 148.90 V2 34.793
 RC 93.644 GL 31.79 GP -11.65 ZAL 59.76 ZAP 107.26 ETS 357.57 ZAE 153.08 ETE 205.06 ZAC 104.06 ETC 169.30 CLP-107.63

PLANETOCENTRIC CONIC

C3 14.381 VHL 3.792 OLA 40.89 RAL 14.20 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 2.887 DPA -10.66 RAP 12.73 ECC 1.2367
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.17 21 10 40 4100.31 -30.23 181.56 241.93 61.03 22 19 1 3500.3 -33.84 173.55
 120.83 4 5 34 2820.73 -30.22 83.88 241.92 61.02 4 52 34 2220.7 -33.83 75.87
 59.17 21 10 40 4100.31 -30.23 181.56 241.93 61.03 22 19 1 3500.3 -33.84 173.55
 120.83 4 5 34 2820.73 -30.22 83.88 241.92 61.02 4 52 34 2220.7 -33.83 75.87
 59.17 21 10 40 4100.31 -30.23 181.56 241.93 61.03 22 19 1 3500.3 -33.84 173.55
 120.83 4 5 34 2820.73 -30.22 83.88 241.92 61.02 4 52 34 2220.7 -33.83 75.87

DIFFERENTIAL CORRECTIONS

TOE 1.3935 TRA .6480 TC3-1.9464 BAU .3824 SGT 2879.1 SGR 1021.1 SG3 1734.3 ST 2141.4 SR 834.1 SS 3454.5
 RDE .5421 RRA .2624 RC3 -.4100 FAU .18235 RRT .9758 RRF .9785 RTF .9781 CRT .9999 CRS -.9964 CST -.9958
 FDE 8.8238 FRA 6.2469 FC-10.9771 BSP 8603 SGB 3054.8 R23 .0901 R13 .9807 LSA 4145.5 MSA 173.1 SSA 7.3
 BOE 1.4953 BRA .6991 BC3 1.9891 FSP -5839 SG1 3046.9 SG2 219.5 THA 19.16 EL1 2298.1 EL2 9.3 ALF 21.28

LAUNCH DATE DEC 16 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

RL 147.22 LAL .00 LOL 84.11 VL 27.788 GAL 3.71 AZL 85.96 MCA 213.85 SMA 128.75 ECC .15705 INC 4.0421 V1 30.262
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.497 GAP 1.79 AZP 93.36 TAL 159.41 TAP 13.26 RCA 108.53 APO 148.97 V2 34.789
 RC 96.038 GL 31.01 GP -10.40 ZAL 59.04 ZAP 112.19 ETS 356.84 ZAE 150.35 ETE 199.43 ZAC 102.08 ETC 168.65 CLP-112.58

PLANETOCENTRIC CONIC

C3 14.396 VHL 3.794 OLA 40.41 RAL 15.23 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 2.957 DPA -10.26 RAP 10.58 ECC 1.2369
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.87 21 17 54 4091.75 -29.90 180.62 242.76 61.44 22 26 5 3491.7 -33.46 172.61
 120.13 4 6 30 2829.74 -29.89 84.44 242.75 61.43 4 53 39 2229.7 -33.45 76.43
 59.87 21 17 54 4091.75 -29.90 180.62 242.76 61.44 22 26 5 3491.7 -33.46 172.61
 120.13 4 6 30 2829.74 -29.89 84.44 242.75 61.43 4 53 39 2229.7 -33.45 76.43
 59.87 21 17 54 4091.75 -29.90 180.62 242.76 61.44 22 26 5 3491.7 -33.46 172.61
 120.13 4 6 30 2829.74 -29.89 84.44 242.75 61.43 4 53 39 2229.7 -33.45 76.43

DIFFERENTIAL CORRECTIONS

TDE 1.5546 TRA .8021 TC3-2.1923 BAU .4267 SGT 3287.8 SGR 898.5 SG3 1649.9 ST 2396.1 SR 747.9 SS 3307.4
 RDE .4871 RRA .2274 RC3 -.3304 FAU .17401 RRT .9686 RRF .9676 RTF .9824 CRT .9998 CRS -.9946 CST -.9964
 FDE 8.2259 FRA 6.1193 FC-10.4648 BSP 9812 SGB 3408.3 R23 .0478 R13 .9834 LSA 4148.4 MSA 172.8 SSA 7.9
 BOE 1.6291 BRA .8337 BC3 2.2170 FSP -5614 SG1 3401.5 SG2 215.9 THA 14.89 EL1 2510.1 EL2 15.4 ALF 17.33

LAUNCH DATE DEC 16 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

RL 147.22 LAL .00 LOL 84.11 VL 27.782 GAL 3.81 AZL 86.03 MCA 217.01 SMA 128.71 ECC .15811 INC 3.9673 V1 30.262
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.490 GAP 2.17 AZP 93.17 TAL 158.98 TAP 15.99 RCA 108.36 APO 149.06 V2 34.787
 RC 98.436 GL 30.26 GP -9.33 ZAL 58.28 ZAP 116.84 ETS 356.28 ZAE 147.59 ETE 195.25 ZAC 100.42 ETC 168.16 CLP-117.23

PLANETOCENTRIC CONIC

C3 14.481 VHL 3.805 OLA 39.98 RAL 16.27 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.046 DPA -9.90 RAP 8.77 ECC 1.2383
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.52 21 24 59 4084.86 -29.56 179.82 243.71 61.76 22 33 4 3484.9 -33.08 171.83
 119.48 4 7 45 2839.25 -29.55 85.04 243.71 61.75 4 55 5 2239.3 -33.07 77.04
 60.52 21 24 59 4084.86 -29.56 179.82 243.71 61.76 22 33 4 3484.9 -33.08 171.83
 119.48 4 7 45 2839.25 -29.55 85.04 243.71 61.75 4 55 5 2239.3 -33.07 77.04
 60.52 21 24 59 4084.86 -29.56 179.82 243.71 61.76 22 33 4 3484.9 -33.08 171.83
 119.48 4 7 45 2839.25 -29.55 85.04 243.71 61.75 4 55 5 2239.3 -33.07 77.04

DIFFERENTIAL CORRECTIONS

TDE 1.6993 TRA .9540 TC3-2.4123 BAU .4697 SGT 3664.7 SGR 793.8 SG3 1553.0 ST 2620.2 SR 676.1 SS 3153.2
 RDE .4425 RRA .1957 RC3 -.2581 FAU .16414 RRT .9575 RRF .9520 RTF .9850 CRT .9989 CRS -.9921 CST -.9968
 FDE 7.6088 FRA 5.9368 FC3-9.8127 BSP 11012 SGB 3749.7 R23 .0180 R13 .9853 LSA 4151.5 MSA 172.7 SSA 8.5
 BOE 1.7560 BRA .9739 BC3 2.4261 FSP -5337 SG1 3743.0 SG2 224.1 THA 11.76 EL1 2705.8 EL2 30.5 ALF 14.46

LAUNCH DATE DEC 16 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

RL 147.22 LAL .00 LOL 84.11 VL 27.774 GAL 3.92 AZL 86.10 MCA 220.17 SMA 128.66 ECC .15938 INC 3.9027 V1 30.262
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.482 GAP 2.54 AZP 92.98 TAL 158.51 TAP 18.68 RCA 108.15 APO 149.16 V2 34.785
 RC 100.837 GL 29.54 GP -8.40 ZAL 57.49 ZAP 121.18 ETS 355.85 ZAE 144.94 ETE 192.10 ZAC 99.08 ETC 167.80 CLP-121.56

PLANETOCENTRIC CONIC

C3 14.632 VHL 3.825 OLA 39.57 RAL 17.35 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 3.153 DPA -9.54 RAP 7.31 ECC 1.2408
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.11 21 32 4 4079.31 -29.22 179.14 244.79 62.03 22 40 3 3479.3 -32.71 171.16
 118.89 4 9 17 2849.41 -29.20 85.68 244.78 62.01 4 56 47 2249.4 -32.70 77.70
 61.11 21 32 4 4079.31 -29.22 179.14 244.79 62.03 22 40 3 3479.3 -32.71 171.16
 118.89 4 9 17 2849.41 -29.20 85.68 244.78 62.01 4 56 47 2249.4 -32.70 77.70
 61.11 21 32 4 4079.31 -29.22 179.14 244.79 62.03 22 40 3 3479.3 -32.71 171.16
 118.89 4 9 17 2849.41 -29.20 85.68 244.78 62.01 4 56 47 2249.4 -32.70 77.70

DIFFERENTIAL CORRECTIONS

TDE 1.8292 TRA 1.1045 TC3-2.6016 BAU .5103 SGT 4009.3 SGR 706.6 SG3 1450.1 ST 2815.2 SR 617.4 SS 2998.2
 RDE .4070 RRA .1674 RC3 -.1932 FAU .15316 RRT .9398 RRF .9305 RTF .9867 CRT .9973 CRS -.9888 CST -.9970
 FDE 7.0013 FRA 5.7222 FC3-9.0621 BSP 12153 SGB 4071.1 R23 -.0005 R13 .9868 LSA 4155.2 MSA 172.7 SSA 9.0
 BOE 1.8739 BRA 1.1171 BC3 2.6087 FSP -5027 SG1 4064.1 SG2 238.1 THA 9.44 EL1 2881.7 EL2 44.3 ALF 12.34

LAUNCH DATE DEC 16 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 499.946

RL 147.22 LAL .00 LOL 84.11 VL 27.765 GAL 4.05 AZL 86.15 HCA 223.33 SMA 128.59 ECC .16084 INC 3.8460 V1 30.262
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.474 GAP 2.91 AZP 92.80 TAL 158.00 TAP 21.33 RCA 107.91 APO 149.28 V2 34.784
 RC 103.240 GL 28.83 GP -7.59 ZAL 56.66 ZAP 125.23 ETS 355.52 ZAE 142.45 ETE 189.70 ZAC 98.06 ETC 167.53 CLP-125.59

PLANETOCENTRIC CONIC

C3 14.845 VHL 3.853 DLA 39.20 RAL 18.47 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 3.275 DPA -9.17 RAP 6.18 ECC 1.2443
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.68 21 39 11 4074.97 -28.86 178.56 245.97 62.23 22 47 6 3475.0 -32.33 170.60
 118.32 4 11 6 2860.19 -28.85 86.37 245.97 62.22 4 58 46 2260.2 -32.32 78.41
 61.68 21 39 11 4074.97 -28.86 178.56 245.97 62.23 22 47 6 3475.0 -32.33 170.60
 118.32 4 11 6 2860.19 -28.85 86.37 245.97 62.22 4 58 46 2260.2 -32.32 78.41
 61.68 21 39 11 4074.97 -28.86 178.56 245.97 62.23 22 47 6 3475.0 -32.33 170.60
 118.32 4 11 6 2860.19 -28.85 86.37 245.97 62.22 4 58 46 2260.2 -32.32 78.41

DIFFERENTIAL CORRECTIONS

TDE 1.9453 TRA 1.2539 TC3-2.7593 BAU .5483
 RDE .3794 RRA .1423 RC3 -.1365 FAU .14179
 FDE 6.4189 FRA 5.4912 FC3-8.2684 BSP 13221
 BOE 1.9820 BRA 1.2620 BC3 2.7627 FSP -4702

MID-COURSE EXECUTION ACCURACY

SGT 4321.9 SGR 635.6 SG3 1346.1
 RRT .9148 RRF .9022 RTF .9878
 SGB 4368.4 R23 -.0115 R13 .9877
 SG1 4361.0 SG2 254.4 THA 7.69

ORBIT DETERMINATION ACCURACY

ST 2982.2 SR 570.1 SS 2845.3
 CRT .9948 CRS -.9845 CST -.9972
 LSA 4157.5 MSA 172.8 SSA 9.5
 EL1 3035.7 EL2 56.8 ALF 10.77

LAUNCH DATE DEC 16 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 506.085

RL 147.22 LAL .00 LOL 84.11 VL 27.754 GAL 4.19 AZL 86.20 HCA 226.49 SMA 128.52 ECC .16250 INC 3.7956 V1 30.262
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.466 GAP 3.29 AZP 92.61 TAL 157.44 TAP 23.94 RCA 107.64 APO 149.41 V2 34.783
 RC 105.643 GL 28.11 GP -6.89 ZAL 55.78 ZAP 128.98 ETS 355.27 ZAE 140.15 ETE 187.84 ZAC 97.35 ETC 167.35 CLP-129.32

PLANETOCENTRIC CONIC

C3 15.120 VHL 3.888 DLA 38.84 RAL 19.63 RAD 6567.6 VEL 11.684 PTH 2.05 VHP 3.410 DPA -8.77 RAP 5.36 ECC 1.2488
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.23 21 46 26 4071.53 -28.49 178.05 247.27 62.40 22 54 18 3471.5 -31.94 170.11
 117.77 4 13 5 2871.84 -28.47 87.12 247.26 62.39 5 0 57 2271.8 -31.93 79.18
 62.23 21 46 26 4071.53 -28.49 178.05 247.27 62.40 22 54 18 3471.5 -31.94 170.11
 117.77 4 13 5 2871.84 -28.47 87.12 247.26 62.39 5 0 57 2271.8 -31.93 79.18
 62.23 21 46 26 4071.53 -28.49 178.05 247.27 62.40 22 54 18 3471.5 -31.94 170.11
 117.77 4 13 5 2871.84 -28.47 87.12 247.26 62.39 5 0 57 2271.8 -31.93 79.18

DIFFERENTIAL CORRECTIONS

TDE 2.0515 TRA 1.4059 TC3-2.8800 BAU .5824
 RDE .3589 RRA .1208 RC3 -.0869 FAU .12992
 FDE 5.8806 FRA 5.2657 FC3-7.4389 BSP 14155
 BOE 2.0827 BRA 1.4111 BC3 2.8813 FSP -4354

MID-COURSE EXECUTION ACCURACY

SGT 4607.3 SGR 579.9 SG3 1245.4
 RRT .8822 RRF .8670 RTF .9884
 SGB 4643.6 R23 -.0170 R13 .9883
 SG1 4635.7 SG2 271.4 THA 6.36

ORBIT DETERMINATION ACCURACY

ST 3127.1 SR 533.2 SS 2700.9
 CRT .9915 CRS -.9793 CST -.9973
 LSA 4162.6 MSA 173.4 SSA 10.1
 EL1 3171.5 EL2 68.3 ALF 9.60

LAUNCH DATE DEC 16 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 512.202

RL 147.22 LAL .00 LOL 84.11 VL 27.743 GAL 4.35 AZL 86.25 HCA 229.65 SMA 128.44 ECC .16437 INC 3.7502 V1 30.262
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.458 GAP 3.66 AZP 92.43 TAL 156.85 TAP 26.51 RCA 107.33 APO 149.55 V2 34.783
 RC 108.045 GL 27.40 GP -6.28 ZAL 54.87 ZAP 132.45 ETS 355.09 ZAE 138.05 ETE 186.38 ZAC 96.92 ETC 167.23 CLP-132.77

PLANETOCENTRIC CONIC

C3 15.457 VHL 3.932 DLA 38.48 RAL 20.83 RAD 6567.6 VEL 11.698 PTH 2.06 VHP 3.558 DPA -8.33 RAP 4.83 ECC 1.2544
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.77 21 53 50 4068.95 -28.09 177.61 248.66 62.54 23 1 39 3469.0 -31.53 169.69
 117.23 4 15 14 2884.33 -28.08 87.92 248.66 62.53 5 3 18 2284.3 -31.52 80.01
 62.77 21 53 50 4068.95 -28.09 177.61 248.66 62.54 23 1 39 3469.0 -31.53 169.69
 117.23 4 15 14 2884.33 -28.08 87.92 248.66 62.53 5 3 18 2284.3 -31.52 80.01
 62.77 21 53 50 4068.95 -28.09 177.61 248.66 62.54 23 1 39 3469.0 -31.53 169.69
 117.23 4 15 14 2884.33 -28.08 87.92 248.66 62.53 5 3 18 2284.3 -31.52 80.01

DIFFERENTIAL CORRECTIONS

TDE 2.1438 TRA 1.5563 TC3-2.9768 BAU .6152
 RDE .3437 RRA .1016 RC3 -.0464 FAU .11906
 FDE 5.3712 FRA 5.0325 FC3-6.6684 BSP 15066
 BOE 2.1712 BRA 1.5596 BC3 2.9771 FSP -4041

MID-COURSE EXECUTION ACCURACY

SGT 4861.6 SGR 536.7 SG3 1148.0
 RRT .8427 RRF .8253 RTF .9888
 SGB 4891.1 R23 -.0203 R13 .9887
 SG1 4882.7 SG2 287.7 THA 5.33

ORBIT DETERMINATION ACCURACY

ST 3243.7 SR 504.1 SS 2556.9
 CRT .9873 CRS -.9731 CST -.9973
 LSA 4157.3 MSA 174.1 SSA 10.6
 EL1 3281.7 EL2 79.2 ALF 8.73

LAUNCH DATE DEC 16 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 518.298

RL 147.22 LAL .00 LOL 84.11 VL 27.730 GAL 4.53 AZL 86.29 HCA 232.82 SMA 128.35 ECC .16645 INC 3.7089 V1 30.262
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.449 GAP 4.03 AZP 92.24 TAL 156.22 TAP 29.04 RCA 106.99 APO 149.72 V2 34.784
 RC 110.446 GL 26.68 GP -5.74 ZAL 53.92 ZAP 135.67 ETS 354.95 ZAE 136.14 ETE 185.22 ZAC 96.76 ETC 167.17 CLP-135.97

PLANETOCENTRIC CONIC

C3 15.859 VHL 3.982 DLA 38.14 RAL 22.06 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 3.716 DPA -7.86 RAP 4.58 ECC 1.2610
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.31 22 1 25 4067.12 -27.68 177.21 250.16 62.64 23 9 12 3467.1 -31.11 169.33
 116.69 4 17 32 2897.75 -27.67 88.79 250.15 62.63 5 5 49 2297.7 -31.10 80.91
 63.31 22 1 25 4067.12 -27.68 177.21 250.16 62.64 23 9 12 3467.1 -31.11 169.33
 116.69 4 17 32 2897.75 -27.67 88.79 250.15 62.63 5 5 49 2297.7 -31.10 80.91
 63.31 22 1 25 4067.12 -27.68 177.21 250.16 62.64 23 9 12 3467.1 -31.11 169.33
 116.69 4 17 32 2897.75 -27.67 88.79 250.15 62.63 5 5 49 2297.7 -31.10 80.91

DIFFERENTIAL CORRECTIONS

TDE 2.2269 TRA 1.7093 TC3-3.0430 BAU .6452
 RDE .3336 RRA .0853 RC3 -.0129 FAU .10861
 FDE 4.9066 FRA 4.8105 FC3-5.9291 BSP 15890
 BOE 2.2518 BRA 1.7115 BC3 3.0430 FSP -3738

MID-COURSE EXECUTION ACCURACY

SGT 5090.8 SGR 504.8 SG3 1056.7
 RRT .7979 RRF .7791 RTF .9890
 SGB 5115.8 R23 -.0215 R13 .9890
 SG1 5106.8 SG2 303.3 THA 4.54

ORBIT DETERMINATION ACCURACY

ST 3339.3 SR 482.3 SS 2420.5
 CRT .9822 CRS -.9661 CST -.9973
 LSA 4148.6 MSA 175.2 SSA 11.0
 EL1 3372.7 EL2 89.6 ALF 8.08

LAUNCH DATE DEC 16 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.716 GAL 4.72 AZL 86.33 MCA 235.98 SMA 128.26 ECC .16875 INC 3.6709 V1 30.262
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.441 GAP 4.41 AZP 92.06 TAL 155.56 TAP 31.53 RCA 106.62 APO 149.90 V2 34.786
 RC 112.844 GL 25.96 GP -5.27 ZAL 52.94 ZAP 138.66 ETS 354.85 ZAE 134.43 ETE 184.30 ZAC 96.84 ETC 167.14 CLP-138.93

PLANETOCENTRIC CONIC
 C3 16.327 VHL 4.041 DLA 37.79 RAL 23.34 RAD 6567.7 VEL 11.735 PTH 2.07 VHP 3.885 DPA -7.35 RAP 4.56 ECC 1.2687
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.85 22 9 13 4065.83 -27.24 176.85 251.75 62.73 23 16 59 3465.8 -30.66 169.00
 116.15 4 19 53 2912.30 -27.23 89.73 251.74 62.71 5 8 25 2312.3 -30.65 81.88
 63.85 22 9 13 4065.83 -27.24 176.85 251.75 62.73 23 16 59 3465.8 -30.66 169.00
 116.15 4 19 53 2912.30 -27.23 89.73 251.74 62.71 5 8 25 2312.3 -30.65 81.88
 63.85 22 9 13 4065.83 -27.24 176.85 251.75 62.73 23 16 59 3465.8 -30.66 169.00
 116.15 4 19 53 2912.30 -27.23 89.73 251.74 62.71 5 8 25 2312.3 -30.65 81.88

DIFFERENTIAL CORRECTIONS
 TDE 2.3013 TRA 1.8656 TC3-3.0826 BAU .6729 SGT 5297.1 SGR 482.2 SG3 971.8 ST 3415.0 SR 466.4 SS 2290.8
 RDE .3278 RRA .0014 RC3 .0138 FAU .09885 RRT .7506 RRF .7309 RTF .9891 CRT .9765 CRS -.9583 CST -.9973
 FDE 4.4834 FRA 4.6009 FC3-5.2416 BSP 16651 SGB 5319.1 R23 -.0215 R13 .9890 LSA 4134.8 MSA 176.8 SSA 11.5
 BOE 2.3245 BRA 1.8669 BC3 3.0826 FSP -3456 SG1 5309.5 SG2 317.9 THA 3.92 EL1 3445.3 EL2 99.7 ALF 7.60

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 16 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.701 GAL 4.92 AZL 86.36 MCA 239.14 SMA 128.16 ECC .17126 INC 3.6356 V1 30.262
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.432 GAP 4.79 AZP 91.87 TAL 154.86 TAP 33.99 RCA 106.21 APO 150.10 V2 34.789
 RC 115.239 GL 25.22 GP -4.86 ZAL 51.92 ZAP 141.43 ETS 354.77 ZAE 132.88 ETE 183.55 ZAC 97.14 ETC 167.13 CLP-141.69

PLANETOCENTRIC CONIC
 C3 16.868 VHL 4.107 DLA 37.44 RAL 24.64 RAD 6567.7 VEL 11.758 PTH 2.08 VHP 4.064 DPA -6.81 RAP 4.76 ECC 1.2776
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.40 22 17 13 4065.11 -26.78 176.53 253.43 62.79 23 24 58 3465.1 -30.20 168.71
 115.60 4 22 17 2927.95 -26.77 90.74 253.42 62.78 5 11 5 2327.9 -30.19 82.93
 64.40 22 17 13 4065.11 -26.78 176.53 253.43 62.79 23 24 58 3465.1 -30.20 168.71
 115.60 4 22 17 2927.95 -26.77 90.74 253.42 62.78 5 11 5 2327.9 -30.19 82.93
 64.40 22 17 13 4065.11 -26.78 176.53 253.43 62.79 23 24 58 3465.1 -30.20 168.71
 115.60 4 22 17 2927.95 -26.77 90.74 253.42 62.78 5 11 5 2327.9 -30.19 82.93

DIFFERENTIAL CORRECTIONS
 TDE 2.3719 TRA 2.0293 TC3-3.0889 BAU .6966 SGT 5486.4 SGR 467.6 SG3 894.4 ST 3478.4 SR 455.7 SS 2172.7
 RDE .3259 RRA .0599 RC3 .0355 FAU .08935 RRT .7040 RRF .6844 RTF .9890 CRT .9703 CRS -.9502 CST -.9973
 FDE 4.1089 FRA 4.4130 FC3-4.5859 BSP 17270 SGB 5506.3 R23 -.0203 R13 .9889 LSA 4122.5 MSA 178.8 SSA 11.9
 BOE 2.3942 BRA 2.0301 BC3 3.0891 FSP -3175 SG1 5496.3 SG2 331.5 THA 3.45 EL1 3506.4 EL2 109.4 ALF 7.25

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 16 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.685 GAL 5.15 AZL 86.40 MCA 242.30 SMA 128.05 ECC .17402 INC 3.6026 V1 30.262
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.423 GAP 5.18 AZP 91.68 TAL 154.13 TAP 36.43 RCA 105.77 APO 150.33 V2 34.792
 RC 117.630 GL 24.48 GP -4.50 ZAL 50.87 ZAP 144.00 ETS 354.71 ZAE 131.50 ETE 182.94 ZAC 97.63 ETC 167.15 CLP-144.25

PLANETOCENTRIC CONIC
 C3 17.487 VHL 4.182 DLA 37.09 RAL 25.97 RAD 6567.7 VEL 11.784 PTH 2.08 VHP 4.253 DPA -6.23 RAP 5.16 ECC 1.2878
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.97 22 25 28 4064.83 -26.29 176.22 255.19 62.84 23 33 13 3464.8 -29.71 168.44
 115.03 4 24 40 2944.86 -26.28 91.84 255.19 62.82 5 13 44 2344.9 -29.70 84.06
 64.97 22 25 28 4064.83 -26.29 176.22 255.19 62.84 23 33 13 3464.8 -29.71 168.44
 115.03 4 24 40 2944.86 -26.28 91.84 255.19 62.82 5 13 44 2344.9 -29.70 84.06
 64.97 22 25 28 4064.83 -26.29 176.22 255.19 62.84 23 33 13 3464.8 -29.71 168.44
 115.03 4 24 40 2944.86 -26.28 91.84 255.19 62.82 5 13 44 2344.9 -29.70 84.06

DIFFERENTIAL CORRECTIONS
 TDE 2.4331 TRA 2.1956 TC3-3.0787 BAU .7198 SGT 5653.9 SGR 458.1 SG3 822.9 ST 3521.3 SR 448.6 SS 2057.6
 RDE .3268 RRA .0504 RC3 .0511 FAU .08100 RRT .6599 RRF .6406 RTF .9889 CRT .9637 CRS -.9418 CST -.9973
 FDE 3.7637 FRA 4.2328 FC3-4.0099 BSP 17901 SGB 5672.4 R23 -.0190 R13 .9888 LSA 4099.0 MSA 181.2 SSA 12.2
 BOE 2.4549 BRA 2.1962 BC3 3.0792 FSP -2933 SG1 5662.0 SG2 343.7 THA 3.07 EL1 3547.8 EL2 118.9 ALF 7.01

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 16 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.669 GAL 5.39 AZL 86.43 MCA 245.46 SMA 127.94 ECC .17702 INC 3.5714 V1 30.262
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.414 GAP 5.57 AZP 91.48 TAL 153.36 TAP 38.83 RCA 105.29 APO 150.58 V2 34.796
 RC 120.015 GL 23.72 GP -4.18 ZAL 49.79 ZAP 146.41 ETS 354.65 ZAE 130.25 ETE 182.44 ZAC 98.30 ETC 167.19 CLP-146.64

PLANETOCENTRIC CONIC
 C3 18.189 VHL 4.265 DLA 36.73 RAL 27.33 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.450 DPA -5.62 RAP 5.73 ECC 1.2993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.55 22 33 56 4065.01 -25.77 175.94 257.03 62.87 23 41 41 3465.0 -29.19 168.20
 114.45 4 27 1 2963.02 -25.76 93.01 257.03 62.85 5 16 24 2363.0 -29.18 85.27
 65.55 22 33 56 4065.01 -25.77 175.94 257.03 62.87 23 41 41 3465.0 -29.19 168.20
 114.45 4 27 1 2963.02 -25.76 93.01 257.03 62.85 5 16 24 2363.0 -29.18 85.27
 65.55 22 33 56 4065.01 -25.77 175.94 257.03 62.87 23 41 41 3465.0 -29.19 168.20
 114.45 4 27 1 2963.02 -25.76 93.01 257.03 62.85 5 16 24 2363.0 -29.18 85.27

DIFFERENTIAL CORRECTIONS
 TDE 2.4887 TRA 2.3687 TC3-3.0464 BAU .7410 SGT 5804.9 SGR 452.9 SG3 757.5 ST 3550.1 SR 444.5 SS 1949.6
 RDE .3305 RRA .0428 RC3 .0624 FAU .07328 RRT .6204 RRF .6020 RTF .9886 CRT .9568 CRS -.9332 CST -.9973
 FDE 3.4526 FRA 4.0679 FC3-3.4878 BSP 18476 SGB 5822.5 R23 -.0174 R13 .9886 LSA 4070.4 MSA 184.1 SSA 12.5
 BOE 2.5106 BRA 2.3690 BC3 3.0470 FSP -2710 SG1 5811.7 SG2 354.8 THA 2.78 EL1 3575.6 EL2 128.3 ALF 6.84

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 16 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 548.419

RL 147.22 LAL .00 LOL 84.11 VL 27.652 GAL 5.64 AZL 86.46 HCA 248.63 SMA 127.82 ECC .18028 INC 3.5418 V1 30.262
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.406 GAP 5.97 AZP 91.29 TAL 152.58 TAP 41.20 RCA 104.77 APO 150.86 V2 34.800
 RC 122.394 GL 22.96 GP -3.90 ZAL 48.69 ZAP 148.66 ETS 354.60 ZAE 129.14 ETE 182.03 ZAC 99.13 ETC 167.23 CLP-148.88

PLANETOCENTRIC CONIC

C3 18.984 VHL 4.357 DLA 36.37 RAL 28.71 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 4.657 DPA -4.98 RAP 6.45 ECC 1.3124
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.16 22 42 39 4065.49 -25.23 175.67 258.95 62.89 23 50 25 3465.5 -28.65 167.97
 113.84 4 29 17 2982.61 -25.21 94.28 258.94 62.87 5 18 59 2382.6 -28.64 86.58
 66.16 22 42 39 4065.49 -25.23 175.67 258.95 62.89 23 50 25 3465.5 -28.65 167.97
 113.84 4 29 17 2982.61 -25.21 94.28 258.94 62.87 5 18 59 2382.6 -28.64 86.58
 66.16 22 42 39 4065.49 -25.23 175.67 258.95 62.89 23 50 25 3465.5 -28.65 167.97
 113.84 4 29 17 2982.61 -25.21 94.28 258.94 62.87 5 18 59 2382.6 -28.64 86.58

DIFFERENTIAL CORRECTIONS

TDE 2.5395 TRA 2.5490 TC3-2.9945 BAU .7602
 RDE .3365 RRA .0371 RC3 .0698 FAU .06619
 FDE 3.1727 FRA 3.9172 FC3-3.0186 BSP 19004
 BOE 2.5617 BRA 2.5493 BC3 2.9953 FSP -2506

MID-COURSE EXECUTION ACCURACY

SGT 5940.5 SGR 450.7 SG3 697.9
 RRT .5868 RRF .5696 RTF .9883
 SGB 5957.6 R23 -.0155 R13 .9883
 SG1 5946.4 SG2 364.6 THA 2.56

ORBIT DETERMINATION ACCURACY

ST 3566.2 SR 442.9 SS 1848.2
 CRT .9499 CRS -.9247 CST -.9973
 LSA 4036.6 MSA 187.3 SSA 12.7
 EL1 3590.9 EL2 137.5 ALF 6.74

LAUNCH DATE DEC 16 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 554.364

RL 147.22 LAL .00 LOL 84.11 VL 27.634 GAL 5.92 AZL 86.49 HCA 251.79 SMA 127.70 ECC .18381 INC 3.5133 V1 30.262
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.397 GAP 6.38 AZP 91.10 TAL 151.77 TAP 43.56 RCA 104.22 APO 151.17 V2 34.805
 RC 124.766 GL 22.20 GP -3.65 ZAL 47.57 ZAP 150.77 ETS 354.54 ZAE 128.13 ETE 181.69 ZAC 100.10 ETC 167.27 CLP-150.98

PLANETOCENTRIC CONIC

C3 19.881 VHL 4.459 DLA 35.99 RAL 30.10 RAD 6567.8 VEL 11.885 PTH 2.11 VHP 4.874 DPA -4.32 RAP 7.32 ECC 1.3272
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.79 22 51 37 4066.25 -24.65 175.40 260.94 62.90 23 59 23 3466.3 -28.07 167.75
 113.21 4 31 24 3003.70 -24.64 95.64 260.93 62.89 5 21 28 2403.7 -28.06 87.99
 66.79 22 51 37 4066.25 -24.65 175.40 260.94 62.90 23 59 23 3466.3 -28.07 167.75
 113.21 4 31 24 3003.70 -24.64 95.64 260.93 62.89 5 21 28 2403.7 -28.06 87.99
 66.79 22 51 37 4066.25 -24.65 175.40 260.94 62.90 23 59 23 3466.3 -28.07 167.75
 113.21 4 31 24 3003.70 -24.64 95.64 260.93 62.89 5 21 28 2403.7 -28.06 87.99

DIFFERENTIAL CORRECTIONS

TDE 2.5868 TRA 2.7382 TC3-2.9246 BAU .7776
 RDE .3445 RRA .0332 RC3 .0740 FAU .05973
 FDE 2.9218 FRA 3.7805 FC3-2.6009 BSP 19481
 BOE 2.6097 BRA 2.7384 BC3 2.9256 FSP -2318

MID-COURSE EXECUTION ACCURACY

SGT 6063.4 SGR 450.7 SG3 643.8
 RRT .5594 RRF .5436 RTF .9880
 SGB 6080.1 R23 -.0136 R13 .9880
 SG1 6068.7 SG2 373.2 THA 2.39

ORBIT DETERMINATION ACCURACY

ST 3571.8 SR 443.0 SS 1753.9
 CRT .9430 CRS -.9163 CST -.9973
 LSA 3999.2 MSA 190.9 SSA 12.9
 EL1 3596.2 EL2 146.4 ALF 6.68

LAUNCH DATE DEC 16 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 560.279

RL 147.22 LAL .00 LOL 84.11 VL 27.615 GAL 6.22 AZL 86.51 HCA 254.96 SMA 127.57 ECC .18764 INC 3.4860 V1 30.262
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.389 GAP 6.80 AZP 90.91 TAL 150.93 TAP 45.89 RCA 103.63 APO 151.51 V2 34.811
 RC 127.128 GL 21.42 GP -3.42 ZAL 46.43 ZAP 152.77 ETS 354.47 ZAE 127.23 ETE 181.41 ZAC 101.19 ETC 167.32 CLP-152.97

PLANETOCENTRIC CONIC

C3 20.890 VHL 4.571 DLA 35.61 RAL 31.50 RAD 6567.8 VEL 11.928 PTH 2.12 VHP 5.100 DPA -3.62 RAP 8.30 ECC 1.3438
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.45 23 0 50 4067.23 -24.04 175.14 262.99 62.90 24 8 37 3467.2 -27.47 167.53
 112.55 4 33 21 3026.39 -24.03 97.11 262.98 62.89 5 23 47 2426.4 -27.46 89.50
 67.45 23 0 50 4067.23 -24.04 175.14 262.99 62.90 24 8 37 3467.2 -27.47 167.53
 112.55 4 33 21 3026.39 -24.03 97.11 262.98 62.89 5 23 47 2426.4 -27.46 89.50
 67.45 23 0 50 4067.23 -24.04 175.14 262.99 62.90 24 8 37 3467.2 -27.47 167.53
 112.55 4 33 21 3026.39 -24.03 97.11 262.98 62.89 5 23 47 2426.4 -27.46 89.50

DIFFERENTIAL CORRECTIONS

TDE 2.6336 TRA 2.9404 TC3-2.8323 BAU .7913
 RDE .3544 RRA .0311 RC3 .0758 FAU .05351
 FDE 2.7002 FRA 3.6615 FC3-2.2177 BSP 19842
 BOE 2.6574 BRA 2.9406 BC3 2.8333 FSP -2136

MID-COURSE EXECUTION ACCURACY

SGT 6177.3 SGR 452.2 SG3 595.1
 RRT .5387 RRF .5247 RTF .9876
 SGB 6193.8 R23 -.0111 R13 .9876
 SG1 6182.1 SG2 380.7 THA 2.27

ORBIT DETERMINATION ACCURACY

ST 3571.5 SR 444.5 SS 1668.2
 CRT .9361 CRS -.9081 CST -.9973
 LSA 3962.1 MSA 194.9 SSA 13.1
 EL1 3595.7 EL2 155.3 ALF 6.66

LAUNCH DATE DEC 16 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 566.161

RL 147.22 LAL .00 LOL 84.11 VL 27.596 GAL 6.55 AZL 86.54 HCA 258.12 SMA 127.44 ECC .19178 INC 3.4594 V1 30.262
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.381 GAP 7.22 AZP 90.71 TAL 150.08 TAP 48.20 RCA 103.00 APO 151.88 V2 34.818
 RC 129.481 GL 20.64 GP -3.23 ZAL 45.28 ZAP 154.65 ETS 354.39 ZAE 126.42 ETE 181.18 ZAC 102.40 ETC 167.36 CLP-154.84

PLANETOCENTRIC CONIC

C3 22.026 VHL 4.693 DLA 35.21 RAL 32.90 RAD 6567.9 VEL 11.975 PTH 2.13 VHP 5.337 DPA -2.91 RAP 9.39 ECC 1.3625
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.13 23 10 18 4068.36 -23.40 174.87 265.10 62.90 24 18 7 3468.4 -26.84 167.31
 111.87 4 35 4 3050.77 -23.39 98.69 265.09 62.89 5 25 55 2450.8 -26.83 91.13
 68.13 23 10 18 4068.36 -23.40 174.87 265.10 62.90 24 18 7 3468.4 -26.84 167.31
 111.87 4 35 4 3050.77 -23.39 98.69 265.09 62.89 5 25 55 2450.8 -26.83 91.13
 68.13 23 10 18 4068.36 -23.40 174.87 265.10 62.90 24 18 7 3468.4 -26.84 167.31
 111.87 4 35 4 3050.77 -23.39 98.69 265.09 62.89 5 25 55 2450.8 -26.83 91.13

DIFFERENTIAL CORRECTIONS

TDE 2.6741 TRA 3.1494 TC3-2.7331 BAU .8051
 RDE .3656 RRA .0306 RC3 .0751 FAU .04810
 FDE 2.4957 FRA 3.5488 FC3-1.8904 BSP 20254
 BOE 2.6990 BRA 3.1495 BC3 2.7341 FSP -1981

MID-COURSE EXECUTION ACCURACY

SGT 6275.8 SGR 454.2 SG3 550.2
 RRT .5232 RRF .5107 RTF .9872
 SGB 6292.2 R23 -.0091 R13 .9872
 SG1 6280.3 SG2 386.8 THA 2.18

ORBIT DETERMINATION ACCURACY

ST 3557.7 SR 446.6 SS 1585.3
 CRT .9293 CRS -.9000 CST -.9973
 LSA 3915.4 MSA 199.1 SSA 13.1
 EL1 3581.9 EL2 165.8 ALF 6.67

LAUNCH DATE DEC 16 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 572.008

RL 147.22 LAL .00 LOL 84.11 VL 27.576 GAL 6.89 AZL 86.57 MCA 261.29 SMA 127.31 ECC .19826 INC 3.4334 V1 30.262
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.373 GAP 7.87 AZP 90.52 TAL 149.20 TAP 50.49 RCA 102.32 APO 152.29 V2 34.825
 RC 131.823 GL 19.86 GP -3.05 ZAL 44.13 ZAP 156.44 ETB 354.29 ZAE 125.68 ETE 180.99 ZAC 103.70 ETC 167.39 CLP-156.62

PLANETOCENTRIC CONIC

C3 23.303 VML 4.827 DLA 34.81 RAL 34.30 RAD 6567.8 VEL 12.028 PTH 2.15 VHP 5.506 DPA -2.17 RAP 10.58 ECC 1.3635
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.85 23 20 2 4069.56 -22.73 174.59 267.27 62.89 24 27 52 3469.6 -26.18 167.08
 111.15 4 36 31 3076.95 -22.72 100.36 267.26 62.89 5 27 48 2476.9 -26.16 92.87
 68.85 23 20 2 4069.56 -22.73 174.59 267.27 62.89 24 27 52 3469.6 -26.18 167.08
 111.15 4 36 31 3076.95 -22.72 100.36 267.26 62.89 5 27 48 2476.9 -26.16 92.87
 68.85 23 20 2 4069.56 -22.73 174.59 267.27 62.89 24 27 52 3469.6 -26.18 167.08
 111.15 4 36 31 3076.95 -22.72 100.36 267.26 62.89 5 27 48 2476.9 -26.16 92.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7126 TRA 3.3702 TC3-2.6210 BAU .8160 86T 6364.4 86R 456.6 86S 509.4 ST 3536.6 SR 449.1 SS 1508.4
 RDE .3782 RRA .0317 RC3 .0727 FAU .04310 RRT .5150 RRF .5021 RTF .9868 CRT .9225 CRS -.8922 CST -.9973
 FDE 2.3121 FRA 3.4477 FC3-1.6012 BAP 20625 86B 6360.7 R23 -.0071 R13 .9868 LSA 3885.6 MSA 203.4 SSA 13.1
 BDE 2.7388 BRA 3.3704 BC3 2.6220 FBP -1838 86I 6360.7 862 391.7 THA 2.12 EL1 3560.9 EL2 172.2 ALF 6.70

LAUNCH DATE DEC 16 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 577.816

RL 147.22 LAL .00 LOL 84.11 VL 27.556 GAL 7.26 AZL 86.59 MCA 264.46 SMA 127.17 ECC .20111 INC 3.4078 V1 30.262
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.366 GAP 8.13 AZP 90.33 TAL 146.32 TAP 52.78 RCA 101.60 APO 152.74 V2 34.833
 RC 134.153 GL 19.07 GP -2.89 ZAL 42.97 ZAP 158.14 ETB 354.15 ZAE 125.02 ETE 180.04 ZAC 105.09 ETC 167.42 CLP-158.32

PLANETOCENTRIC CONIC

C3 24.739 VML 4.974 DLA 34.39 RAL 35.70 RAD 6568.0 VEL 12.088 PTH 2.16 VHP 5.846 DPA -1.42 RAP 11.85 ECC 1.4071
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.61 23 30 3 4070.75 -22.03 174.30 269.48 62.89 24 37 54 3470.8 -25.48 166.83
 110.39 4 37 30 3105.06 -22.01 102.20 269.48 62.89 5 29 24 2505.1 -25.47 94.73
 69.61 23 30 3 4070.75 -22.03 174.30 269.48 62.89 24 37 54 3470.8 -25.48 166.83
 110.39 4 37 30 3105.06 -22.01 102.20 269.48 62.89 5 29 24 2505.1 -25.47 94.73
 69.61 23 30 3 4070.75 -22.03 174.30 269.48 62.89 24 37 54 3470.8 -25.48 166.83
 110.39 4 37 30 3105.06 -22.01 102.20 269.48 62.89 5 29 24 2505.1 -25.47 94.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7496 TRA 3.6042 TC3-2.4980 BAU .8265 86T 6443.8 86R 459.1 86S 472.3 ST 3509.4 SR 451.6 SS 1437.0
 RDE .3918 RRA .0345 RC3 .0800 FAU .03649 RRT .5076 RRF .4982 RTF .9864 CRT .9137 CRS -.8845 CST -.9974
 FDE 2.1488 FRA 3.5574 FC3-1.3460 BAP 20955 86B 6460.2 R23 -.0051 R13 .9864 LSA 3813.4 MSA 207.9 SSA 13.1
 BDE 2.7774 BRA 3.6044 BC3 2.4990 FBP -1707 86I 6448.1 862 395.3 THA 2.06 EL1 3533.8 EL2 180.2 ALF 6.74

LAUNCH DATE DEC 16 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 583.581

RL 147.22 LAL .00 LOL 84.11 VL 27.535 GAL 7.66 AZL 86.62 MCA 267.63 SMA 127.03 ECC .20635 INC 3.3825 V1 30.262
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.356 GAP 8.60 AZP 90.14 TAL 147.42 TAP 55.05 RCA 100.82 APO 153.24 V2 34.841
 RC 136.471 GL 18.28 GP -2.74 ZAL 41.80 ZAP 159.77 ETB 355.99 ZAE 124.41 ETE 180.71 ZAC 106.55 ETC 167.43 CLP-159.95

PLANETOCENTRIC CONIC

C3 26.355 VML 5.134 DLA 33.97 RAL 37.08 RAD 6568.1 VEL 12.154 PTH 2.18 VHP 6.119 DPA -.65 RAP 13.20 ECC 1.4337
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.41 23 40 22 4071.81 -21.30 173.98 271.75 62.89 24 48 13 3471.8 -24.75 166.56
 109.59 4 38 24 3135.25 -21.28 104.15 271.74 62.89 5 30 39 2535.3 -24.74 96.73
 70.41 23 40 22 4071.81 -21.30 173.98 271.75 62.89 24 48 13 3471.8 -24.75 166.56
 109.59 4 38 24 3135.25 -21.28 104.15 271.74 62.89 5 30 39 2535.3 -24.74 96.73
 110.00 5 10 2 3038.75 -24.08 98.11 273.23 64.97 6 0 41 2438.8 -27.24 90.58
 110.00 4 11 50 3216.31 -18.55 108.92 270.19 60.76 5 5 27 2616.3 -22.30 101.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7851 TRA 3.8519 TC3-2.3669 BAU .8341 86T 6514.2 86R 461.5 86S 438.4 ST 3476.4 SR 454.0 SS 1370.7
 RDE .4065 RRA .0380 RC3 .0644 FAU .03425 RRT .5062 RRF .4982 RTF .9860 CRT .9090 CRS -.8770 CST -.9974
 FDE 1.9975 FRA 3.2784 FC3-1.1250 BAP 21260 86B 6530.5 R23 -.0033 R13 .9860 LSA 3758.4 MSA 212.4 SSA 13.1
 BDE 2.8146 BRA 3.8521 BC3 2.3674 FBP -1587 86I 6518.4 862 397.7 THA 2.06 EL1 3500.9 EL2 187.9 ALF 6.79

LAUNCH DATE DEC 16 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 589.299

RL 147.22 LAL .00 LOL 84.11 VL 27.514 GAL 8.09 AZL 86.64 MCA 270.80 SMA 126.89 ECC .21203 INC 3.3573 V1 30.262
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.351 GAP 9.10 AZP 89.85 TAL 146.52 TAP 57.32 RCA 99.99 APO 153.80 V2 34.850
 RC 138.775 GL 17.49 GP -2.61 ZAL 40.65 ZAP 161.33 ETB 355.78 ZAE 123.85 ETE 180.61 ZAC 108.08 ETC 167.43 CLP-161.51

PLANETOCENTRIC CONIC

C3 28.176 VML 5.308 DLA 33.53 RAL 38.45 RAD 6568.1 VEL 12.229 PTH 2.20 VHP 6.407 DPA .13 RAP 14.61 ECC 1.4637
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.24 23 50 58 4072.71 -20.53 173.63 274.06 62.89 24 58 51 3472.7 -24.00 166.25
 108.76 4 38 44 3167.58 -20.52 106.25 274.06 62.89 5 31 32 2567.6 -23.98 98.87
 71.24 23 50 58 4072.71 -20.53 173.63 274.06 62.89 24 58 51 3472.7 -24.00 166.25
 108.76 4 38 44 3167.58 -20.52 106.25 274.06 62.89 5 31 32 2567.6 -23.98 98.87
 110.00 5 38 55 2989.49 -23.48 94.95 276.60 66.38 6 26 44 2389.5 -28.43 87.03
 110.00 5 55 54 3288.79 -15.74 113.66 271.28 59.26 4 50 53 2688.8 -19.70 106.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.8252 TRA 4.1180 TC3-2.2235 BAU .8379 86T 6579.8 86R 465.7 86S 407.8 ST 3442.5 SR 456.0 SS 1311.1
 RDE .4222 RRA .0453 RC3 .0593 FAU .03018 RRT .5088 RRF .5023 RTF .9856 CRT .9024 CRS -.8699 CST -.9975
 FDE 1.8858 FRA 3.2072 FC3 -.9275 BAP 21457 86B 6598.1 R23 -.0014 R13 .9856 LSA 3705.5 MSA 216.7 SSA 13.0
 BDE 2.8546 BRA 4.1183 BC3 2.2243 FBP -1470 86I 6584.0 862 398.9 THA 2.06 EL1 3467.1 EL2 195.1 ALF 6.84

LAUNCH DATE DEC 16 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.493 GAL 8.55 AZL 86.67 HCA 273.98 SMA 126.75 ECC .21818 INC 3.3320 V1 30.262
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.344 GAP 9.82 AZP 89.77 TAL 143.61 TAP 59.58 RCA 99.10 APO 154.40 V2 34.860
 RC 141.067 GL 16.70 GP -2.50 ZAL 39.50 ZAP 162.85 ET8 353.52 ZAE 123.34 ETE 180.54 ZAC 109.67 ETC 167.42 CLP-163.01

PLANETOCENTRIC CONIC
 C3 30.231 VHL 5.498 DLA 33.08 RAL 39.81 RAD 6568.2 VEL 12.313 PTH 2.22 VHP 6.711 DPA .92 RAP 16.08 ECC 1.4975
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.13 0 5 51 4073.19 -19.73 173.23 276.42 62.89 1 13 44 3473.2 -23.21 165.90
 107.87 4 36 34 3202.32 -19.72 108.50 276.41 62.88 5 31 56 2602.3 -23.19 101.17
 78.13 0 5 51 4073.19 -19.73 173.23 276.42 62.89 1 13 44 3473.2 -23.21 165.90
 107.87 4 36 34 3202.32 -19.72 108.50 276.41 62.88 5 31 56 2602.3 -23.19 101.17
 110.00 5 37 16 2940.59 -26.24 98.04 279.70 67.26 6 48 37 2360.6 -29.08 85.04
 110.00 3 48 19 3362.82 -13.47 117.25 272.74 58.28 4 42 22 2762.9 -17.57 110.53

DIFFERENTIAL CORRECTIONS
 TDE 2.8374 TRA 4.3968 TC3-2.0801 BAU .8410
 RDE .4384 RRA .0531 RC3 .0537 FAU .02650
 FDE 1.7436 FRA 3.1430 FC3 -.7613 B8P 21718
 BDE 2.8908 BRA 4.3973 BC3 2.0808 F8P -1370

MID-COURSE EXECUTION ACCURACY
 SGT 6633.5 SGR 465.3 SCS 379.4
 RRT .5140 RRF .5083 RTF .9853
 SGB 6649.8 R23 .0002 R13 .9853
 SGI 6637.8 SGT 398.9 THA 2.07

ORBIT DETERMINATION ACCURACY
 ST 3400.3 SR 457.2 SS 1254.0
 CRT .8937 CRS -.8628 CST -.9975
 LSA 3646.2 MSA 220.9 SSA 12.9
 EL1 3425.0 EL2 201.9 ALF 6.89

LAUNCH DATE DEC 16 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.471 GAL 9.04 AZL 86.69 HCA 277.15 SMA 126.61 ECC .22485 INC 3.3065 V1 30.262
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.338 GAP 10.18 AZP 89.59 TAL 144.70 TAP 61.85 RCA 98.14 APO 155.07 V2 34.870
 RC 143.344 GL 15.92 GP -2.39 ZAL 38.36 ZAP 164.29 ET8 353.18 ZAE 122.87 ETE 180.47 ZAC 111.31 ETC 167.38 CLP-164.47

PLANETOCENTRIC CONIC
 C3 32.554 VHL 5.706 DLA 32.63 RAL 41.13 RAD 6568.3 VEL 12.407 PTH 2.24 VHP 7.033 DPA 1.72 RAP 17.61 ECC 1.5358
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.07 0 17 11 4073.14 -18.91 172.78 276.80 62.90 1 25 4 3473.1 -22.39 165.50
 106.93 4 37 50 3239.60 -18.90 110.92 276.80 62.89 5 31 49 2639.6 -22.38 103.63
 73.07 0 17 11 4073.14 -18.91 172.78 276.80 62.90 1 25 4 3473.1 -22.39 165.50
 106.93 4 37 50 3239.60 -18.90 110.92 276.80 62.89 5 31 49 2639.6 -22.38 103.63
 110.00 6 14 53 2940.51 -26.78 91.74 282.70 67.89 7 3 54 2340.5 -29.51 83.63
 110.00 3 39 18 3420.23 -11.40 120.40 274.36 57.55 4 36 18 2820.2 -15.60 113.81

DIFFERENTIAL CORRECTIONS
 TDE 2.8917 TRA 4.6939 TC3-1.9332 BAU .8416
 RDE .4952 RRA .0628 RC3 .0479 FAU .02325
 FDE 1.6335 FRA 3.0669 FC3 -.6182 B8P 21954
 BDE 2.9273 BRA 4.6943 BC3 1.9338 F8P -1277

MID-COURSE EXECUTION ACCURACY
 SGT 6680.0 SGR 466.4 SCS 353.5
 RRT .5218 RRF .5172 RTF .9851
 SGB 6696.3 R23 .0016 R13 .9851
 SGI 6684.5 SGT 397.6 THA 2.09

ORBIT DETERMINATION ACCURACY
 ST 3355.0 SR 457.7 SS 1201.5
 CRT .8890 CRS -.8559 CST -.9976
 LSA 3585.8 MSA 224.9 SSA 12.7
 EL1 3379.6 EL2 208.1 ALF 6.94

LAUNCH DATE DEC 16 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.450 GAL 9.57 AZL 86.72 HCA 280.33 SMA 126.46 ECC .23209 INC 3.2807 V1 30.262
 RP 108.65 LAP -3.23 LOP 4.45 VP 37.332 GAP 10.74 AZP 89.41 TAL 143.79 TAP 64.12 RCA 97.11 APO 155.81 V2 34.880
 RC 143.608 GL 15.14 GP -2.30 ZAL 37.24 ZAP 165.70 ET8 352.76 ZAE 122.43 ETE 180.43 ZAC 112.99 ETC 167.33 CLP-165.88

PLANETOCENTRIC CONIC
 C3 35.188 VHL 5.932 DLA 32.16 RAL 42.43 RAD 6568.4 VEL 12.512 PTH 2.27 VHP 7.374 DPA 2.53 RAP 19.18 ECC 1.5791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.07 0 29 0 4072.14 -18.06 172.24 281.23 62.92 1 36 52 3472.1 -21.54 165.01
 105.93 4 36 23 3279.85 -18.04 113.53 281.22 62.91 5 31 2 2679.9 -21.53 106.29
 74.07 0 29 0 4072.14 -18.06 172.24 281.23 62.92 1 36 52 3472.1 -21.54 165.01
 105.93 4 36 23 3279.85 -18.04 113.53 281.22 62.91 5 31 2 2679.9 -21.53 106.29
 110.00 6 30 51 2925.94 -27.13 90.76 285.67 68.56 7 19 37 2325.9 -29.82 82.61
 110.00 3 33 42 3474.05 -9.42 125.31 278.09 56.99 4 31 36 2874.1 -13.70 116.82

DIFFERENTIAL CORRECTIONS
 TDE 2.9272 TRA 5.0105 TC3-1.7828 BAU .8389
 RDE .4728 RRA .0743 RC3 .0423 FAU .02012
 FDE 1.5343 FRA 3.0383 FC3 -.4950 B8P 22162
 BDE 2.9651 BRA 5.0110 BC3 1.7833 F8P -1192

MID-COURSE EXECUTION ACCURACY
 SGT 6719.3 SGR 467.0 SCS 329.7
 RRT .5319 RRF .5280 RTF .9849
 SGB 6735.5 R23 .0026 R13 .9849
 SGI 6723.9 SGT 395.2 THA 2.12

ORBIT DETERMINATION ACCURACY
 ST 3307.4 SR 457.2 SS 1153.5
 CRT .8823 CRS -.8492 CST -.9977
 LSA 3523.1 MSA 226.4 SSA 12.5
 EL1 3332.0 EL2 215.6 ALF 6.98

LAUNCH DATE DEC 16 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC
 RL 147.22 LAL .00 LOL 84.11 VL 27.428 GAL 10.15 AZL 86.75 HCA 283.51 SMA 126.32 ECC .23998 INC 3.2543 V1 30.262
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.326 GAP 11.35 AZP 89.24 TAL 142.90 TAP 66.41 RCA 96.00 APO 156.63 V2 34.891
 RC 147.857 GL 14.36 GP -2.21 ZAL 36.14 ZAP 167.08 ET8 352.22 ZAE 122.01 ETE 180.40 ZAC 114.71 ETC 167.25 CLP-167.26

PLANETOCENTRIC CONIC
 C3 38.181 VHL 6.179 DLA 31.89 RAL 43.70 RAD 6568.5 VEL 12.631 PTH 2.29 VHP 7.737 DPA 3.34 RAP 20.79 ECC 1.6284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ABC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.15 0 41 18 4070.08 -17.17 171.82 283.67 62.95 1 49 8 3470.1 -20.66 164.42
 104.85 4 34 10 3323.17 -17.16 116.35 283.67 62.94 5 29 33 2723.2 -20.65 109.16
 75.15 0 41 18 4070.08 -17.17 171.82 283.67 62.95 1 49 8 3470.1 -20.66 164.42
 104.85 4 34 10 3323.17 -17.16 116.35 283.67 62.94 5 29 33 2723.2 -20.65 109.16
 110.00 6 45 38 2915.36 -27.39 90.06 288.62 68.70 7 34 13 2315.4 -30.03 81.86
 110.00 3 29 1 3525.89 -7.48 126.07 277.80 56.55 4 27 47 2925.9 -11.83 119.68

DIFFERENTIAL CORRECTIONS
 TDE 2.9682 TRA 5.3529 TC3-1.8274 BAU .8309
 RDE .4906 RRA .0878 RC3 .0371 FAU .01708
 FDE 1.4476 FRA 2.9999 FC3 -.3872 B8P 22249
 BDE 3.0084 BRA 5.3537 BC3 1.8279 F8P -1107

MID-COURSE EXECUTION ACCURACY
 SGT 6756.1 SGR 467.1 SCS 308.1
 RRT .5444 RRF .5412 RTF .9847
 SGB 6772.2 R23 .0039 R13 .9847
 SGI 6760.9 SGT 391.5 THA 2.16

ORBIT DETERMINATION ACCURACY
 ST 3262.0 SR 455.8 SS 1111.3
 CRT .8758 CRS -.8429 CST -.9979
 LSA 3468.4 MSA 231.3 SSA 12.3
 EL1 3286.5 EL2 218.4 ALF 7.01

LAUNCH DATE DEC 17 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 25 1969

HELIOCENTRIC CONIC

DISTANCE 137.036

RL 147.21 LAL .00 LOL 85.12 VL 17.896 GAL 20.31 AZL 86.12 MCA 44.41 SMA 89.50 ECC .69725 INC 3.8801 V1 30.265
 RP 107.48 LAP 2.71 LOP 129.47 VP 31.414 GAP -42.97 AZP 87.23 TAL 170.45 TAP 214.86 RCA 27.10 APO 151.91 V2 35.259
 RC 71.328 GL 4.35 GP .68 ZAL 64.88 ZAP 29.84 ETS 180.78 ZAE 139.81 ETE 189.57 ZAC 74.29 ETC 164.99 CLP 29.83

PLANETOCENTRIC CONIC

C3 224.546 VML 14.985 DLA 11.96 RAL 17.09 RAD 6571.3 VEL 18.597 PTH 3.05 VHP 24.676 DPA -10.55 RAP 341.95 ECC 4.6955
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 19 3131.16 -26.93 105.88 283.44 80.89 6 6 30 2531.2 -27.91 97.35
 90.00 20 17 6 5013.90 23.01 220.52 272.26 73.02 21 40 40 4413.9 20.47 212.77
 100.00 6 41 45 2849.17 -28.63 85.44 283.74 81.01 7 29 14 2249.2 -29.57 76.77
 100.00 21 32 21 4771.12 24.65 202.11 271.70 72.54 22 51 52 4171.1 22.03 194.30
 110.00 8 3 45 2592.55 -33.18 66.78 284.57 81.28 8 46 58 1992.6 -34.03 57.65
 110.00 22 26 50 4600.50 29.04 187.56 270.09 71.11 23 43 30 4000.5 26.18 179.54

DIFFERENTIAL CORRECTIONS

TDE -.7132 TRA-1.8094 TC3 -.1133 BAU .3438
 RDE-1.0621 RRA .4707 RC3 -.0165 FAU .01263
 FDE .3564 FRA .6772 FC3 -.0487 BSP 2232
 BOE 1.2793 BRA 1.8697 BC3 .1145 FSP -61

MID-COURSE EXECUTION ACCURACY

SGT 830.6 SGR 448.5 SG3 28.6
 RRT -.0070 RRF .0037 RTF -.6347
 SGB 944.0 R23 .0026 R13 .6347
 SG1 830.6 SG2 448.5 THA 179.69

ORBIT DETERMINATION ACCURACY

ST 345.7 SR 409.8 SS 336.4
 CRT .6992 CRS .7879 CST .9895
 LSA 591.5 MSA 224.7 SSA 13.8
 EL1 495.7 EL2 204.3 ALF 51.87

LAUNCH DATE DEC 17 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 27 1969

HELIOCENTRIC CONIC

DISTANCE 142.902

RL 147.21 LAL .00 LOL 85.12 VL 18.597 GAL 19.43 AZL 86.18 MCA 47.66 SMA 91.07 ECC .66973 INC 3.8237 V1 30.265
 RP 107.48 LAP 2.83 LOP 132.72 VP 31.819 GAP -40.98 AZP 87.42 TAL 169.65 TAP 217.31 RCA 30.08 APO 152.07 V2 35.259
 RC 69.241 GL 4.69 GP .70 ZAL 63.70 ZAP 28.31 ETS 180.99 ZAE 140.20 ETE 190.12 ZAC 75.94 ETC 165.19 CLP 28.30

PLANETOCENTRIC CONIC

C3 204.446 VML 14.298 DLA 12.74 RAL 18.09 RAD 6571.1 VEL 18.049 PTH 3.01 VHP 23.708 DPA -9.89 RAP 343.56 ECC 4.3647
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 43 3143.45 -26.79 106.75 283.71 80.47 6 4 6 2543.4 -27.83 98.24
 90.00 20 27 38 4973.75 22.19 217.86 272.08 71.94 21 50 32 4373.8 19.51 210.21
 100.00 6 39 38 2859.90 -28.51 86.22 284.04 80.61 7 27 18 2259.9 -29.51 77.56
 100.00 21 42 24 4732.53 23.84 199.53 271.48 71.41 23 1 17 4132.5 21.08 191.82
 110.00 8 2 42 2599.99 -33.11 67.35 284.90 80.95 8 46 2 2000.0 -34.00 58.23
 110.00 22 35 50 4565.21 28.23 185.12 269.77 69.88 23 51 55 3965.2 25.23 177.24

DIFFERENTIAL CORRECTIONS

TDE -.7142 TRA-1.8177 TC3 -.1203 BAU .3325
 RDE-1.0255 RRA .4480 RC3 -.0184 FAU .01278
 FDE .3705 FRA .7019 FC3 -.0541 BSP 2354
 BOE 1.2497 BRA 1.8721 BC3 .1217 FSP -67

MID-COURSE EXECUTION ACCURACY

SGT 870.5 SGR 453.3 SG3 31.1
 RRT -.0044 RRF .0014 RTF -.6539
 SGB 981.5 R23 .0026 R13 .6539
 SG1 870.5 SG2 453.3 THA 179.82

ORBIT DETERMINATION ACCURACY

ST 363.6 SR 414.6 SS 352.1
 CRT .6982 CRS .7889 CST .9892
 LSA 612.0 MSA 230.9 SSA 14.0
 EL1 509.1 EL2 212.0 ALF 50.34

LAUNCH DATE DEC 17 1968

FLIGHT TIME 74.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC

DISTANCE 148.866

RL 147.21 LAL .00 LOL 85.12 VL 19.253 GAL 18.59 AZL 86.23 MCA 50.91 SMA 92.65 ECC .64271 INC 3.7729 V1 30.265
 RP 107.48 LAP 2.93 LOP 135.97 VP 32.206 GAP -39.09 AZP 87.62 TAL 168.86 TAP 219.76 RCA 33.10 APO 152.20 V2 35.258
 RC 67.184 GL 5.05 GP .73 ZAL 62.58 ZAP 26.80 ETS 181.23 ZAE 140.70 ETE 190.72 ZAC 77.62 ETC 165.38 CLP 26.79

PLANETOCENTRIC CONIC

C3 186.244 VML 13.647 DLA 13.50 RAL 19.03 RAD 6571.0 VEL 17.538 PTH 2.97 VHP 22.775 DPA -9.21 RAP 345.18 ECC 4.0651
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 8 54 3154.93 -26.66 107.57 283.87 80.08 6 1 28 2554.9 -27.76 99.07
 90.00 20 37 59 4933.02 21.30 215.20 271.84 70.89 22 0 12 4333.0 18.50 207.65
 100.00 6 37 18 2869.79 -28.40 86.93 284.21 80.25 7 25 8 2269.8 -29.45 78.29
 100.00 21 52 15 4693.39 22.97 196.95 271.21 70.32 23 10 28 4093.4 20.08 189.35
 110.00 8 1 27 2606.52 -33.03 67.85 285.11 80.67 8 44 53 2006.5 -33.97 58.73
 110.00 22 44 36 4529.42 27.37 182.70 269.39 68.67 24 0 6 3929.4 24.22 174.94

DIFFERENTIAL CORRECTIONS

TDE -.7154 TRA-1.8254 TC3 -.1272 BAU .3207
 RDE -.9889 RRA .4253 RC3 -.0205 FAU .01296
 FDE .3849 FRA .7269 FC3 -.0602 BSP 2484
 BOE 1.2206 BRA 1.8743 BC3 .1288 FSP -73

MID-COURSE EXECUTION ACCURACY

SGT 912.0 SGR 457.4 SG3 33.6
 RRT -.0013 RRF -.0014 RTF -.6725
 SGB 1020.3 R23 .0026 R13 .6725
 SG1 912.0 SG2 457.4 THA 179.95

ORBIT DETERMINATION ACCURACY

ST 382.4 SR 418.8 SS 368.2
 CRT .6974 CRS .7900 CST .9889
 LSA 633.2 MSA 236.7 SSA 14.2
 EL1 522.9 EL2 219.5 ALF 48.72

LAUNCH DATE DEC 17 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 154.920

RL 147.21 LAL .00 LOL 85.12 VL 19.867 GAL 17.77 AZL 86.27 MCA 54.16 SMA 94.23 ECC .61629 INC 3.7266 V1 30.265
 RP 107.48 LAP 3.02 LOP 139.22 VP 32.575 GAP -37.30 AZP 87.82 TAL 168.08 TAP 222.24 RCA 36.16 APO 152.31 V2 35.257
 RC 65.159 GL 5.42 GP .75 ZAL 61.52 ZAP 25.31 ETS 181.48 ZAE 141.32 ETE 191.35 ZAC 79.32 ETC 165.55 CLP 25.30

PLANETOCENTRIC CONIC

C3 169.742 VML 13.029 DLA 14.24 RAL 19.92 RAD 6570.8 VEL 17.061 PTH 2.93 VHP 21.875 DPA -8.52 RAP 346.81 ECC 3.7935
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 50 3165.64 -26.53 108.32 283.90 79.72 5 58 35 2565.6 -27.68 99.85
 90.00 20 48 8 4891.65 20.36 212.54 271.55 69.88 22 9 39 4291.6 17.43 205.08
 100.00 6 34 45 2878.85 -28.29 87.59 284.26 79.93 7 22 44 2278.9 -29.39 78.95
 100.00 22 1 53 4653.67 22.03 194.37 270.88 69.27 23 19 27 4053.7 19.02 186.88
 110.00 7 59 59 2612.17 -32.97 68.28 285.20 80.42 8 43 31 2012.2 -33.94 59.17
 110.00 22 53 9 4493.12 26.45 180.28 268.96 67.51 24 8 2 3893.1 23.17 172.65

DIFFERENTIAL CORRECTIONS

TDE -.7154 TRA-1.8308 TC3 -.1336 BAU .3075
 RDE -.9525 RRA .4027 RC3 -.0228 FAU .01316
 FDE .3997 FRA .7522 FC3 -.0671 BSP 2654
 BOE 1.1913 BRA 1.8746 BC3 .1355 FSP -81

MID-COURSE EXECUTION ACCURACY

SGT 954.0 SGR 460.9 SG3 36.5
 RRT -.0017 RRF -.0045 RTF -.6905
 SGB 1059.5 R23 -.0030 R13 -.6905
 SG1 954.0 SG2 460.9 THA .06

ORBIT DETERMINATION ACCURACY

ST 401.5 SR 422.5 SS 384.6
 CRT .6966 CRS .7911 CST .9885
 LSA 654.8 MSA 242.1 SSA 14.4
 EL1 536.9 EL2 226.7 ALF 47.09

LAUNCH DATE DEC 17 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 161.059

RL 147.21 LAL .00 LOL 85.12 VL 20.441 GAL 17.00 AZL 86.32 HCA 57.40 SMA 95.81 ECC .59053 INC 3.6839 V1 30.265
 RP 107.49 LAP 3.10 LOP 142.47 VP 32.925 GAP -35.60 AZP 88.01 TAL 167.33 TAP 224.73 RCA 39.23 APO 152.38 V2 35.254
 RC 63.173 GL 5.79 GP .78 ZAL 60.52 ZAP 23.84 ETS 181.76 ZAE 142.04 ETE 192.03 ZAC 81.03 ETC 165.72 CLP 23.83

PLANETOCENTRIC CONIC

C3 154.767 VHL 12.441 DLA 14.98 RAL 20.75 RAD 6570.7 VEL 16.616 PTH 2.89 VHP 21.006 DPA -7.80 RAP 348.45 ECC 3.5471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 2 31 3175.63 -26.41 109.03 283.82 79.39 5 55 27 2575.6 -27.61 100.57
 90.00 20 58 6 4849.62 19.35 209.87 271.20 68.91 22 18 55 4249.6 16.31 202.51
 100.00 6 31 58 2887.14 -28.19 88.18 284.19 79.63 7 20 6 2287.1 -29.34 79.56
 100.00 22 11 20 4613.34 21.04 191.79 270.49 68.26 23 28 13 4013.3 17.90 184.40
 110.00 7 58 19 2616.96 -32.92 68.64 285.17 80.21 8 41 56 2017.0 -33.92 59.54
 110.00 23 1 28 4456.28 25.47 177.86 268.48 66.39 24 15 44 3856.3 22.05 170.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7155 TRA-1.8351 TC3 -.1397 BAU .2937
 ROE -.9163 RRA .3802 RC3 -.0253 FAU .01340
 FDE .4150 FRA .7779 FC3 -.0750 BSP 2842
 BOE 1.1625 BRA 1.8741 BC3 .1419 FSP -89

SGT 997.4 SGR 463.6 SG3 39.5
 RRT .0051 RRF -.0080 RTF -.7079
 SGB 1099.9 R23 -.0034 R13 -.7079
 SGI 997.4 SG2 463.6 THA .17

ST 421.4 SR 425.5 SS 401.5
 CRT .6960 CRS .7925 CST .9882
 LSA 677.2 MSA 247.1 SSA 14.6
 EL1 551.5 EL2 233.4 ALF 45.40

LAUNCH DATE DEC 17 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 167.276

RL 147.21 LAL .00 LOL 85.12 VL 20.977 GAL 16.25 AZL 86.36 HCA 60.65 SMA 97.37 ECC .56550 INC 3.6443 V1 30.265
 RP 107.50 LAP 3.18 LOP 145.72 VP 33.258 GAP -33.98 AZP 88.21 TAL 166.60 TAP 227.24 RCA 42.31 APO 152.43 V2 35.251
 RC 61.231 GL 6.19 GP .81 ZAL 59.58 ZAP 22.38 ETS 182.06 ZAE 142.89 ETE 192.77 ZAC 82.75 ETC 165.86 CLP 22.37

PLANETOCENTRIC CONIC

C3 141.169 VHL 11.881 DLA 15.70 RAL 21.53 RAD 6570.5 VEL 16.202 PTH 2.84 VHP 20.166 DPA -7.08 RAP 350.10 ECC 3.3233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 56 3184.95 -26.29 109.69 283.62 79.08 5 52 1 2585.0 -27.53 101.24
 90.00 21 7 54 4806.89 18.28 207.19 270.80 67.99 22 28 1 4206.9 15.14 199.92
 100.00 6 28 56 2894.70 -28.10 88.72 284.00 79.36 7 17 11 2294.7 -29.28 80.12
 100.00 22 20 35 4572.37 19.98 189.20 270.06 67.30 23 36 47 3972.4 16.74 181.92
 110.00 7 56 26 2620.93 -32.87 68.94 285.01 80.04 8 40 7 2020.9 -33.89 59.85
 110.00 23 9 34 4418.91 24.42 175.46 267.95 65.31 24 23 13 3818.9 20.89 168.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7183 TRA-1.8410 TC3 -.1461 BAU .2808
 ROE -.8802 RRA .3579 RC3 -.0280 FAU .01365
 FDE .4312 FRA .8044 FC3 -.0837 BSP 2973
 BOE 1.1361 BRA 1.8755 BC3 .1488 FSP -98

SGT 1044.5 SGR 465.6 SG3 42.8
 RRT .0098 RRF -.0122 RTF -.7242
 SGB 1143.6 R23 -.0033 R13 -.7243
 SGI 1044.5 SG2 465.5 THA .31

ST 443.4 SR 427.9 SS 419.2
 CRT .6966 CRS .7941 CST .9880
 LSA 701.4 MSA 251.5 SSA 14.8
 EL1 567.6 EL2 239.8 ALF 43.53

LAUNCH DATE DEC 17 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 173.567

RL 147.21 LAL .00 LOL 85.12 VL 21.479 GAL 15.53 AZL 86.39 HCA 63.90 SMA 98.91 ECC .54125 INC 3.6070 V1 30.265
 RP 107.51 LAP 3.24 LOP 148.98 VP 33.573 GAP -32.43 AZP 88.41 TAL 165.89 TAP 229.78 RCA 45.38 APO 152.45 V2 35.248
 RC 59.338 GL 6.59 GP .84 ZAL 58.69 ZAP 20.94 ETS 182.40 ZAE 143.86 ETE 193.57 ZAC 84.49 ETC 166.00 CLP 20.92

PLANETOCENTRIC CONIC

C3 128.812 VHL 11.350 DLA 16.42 RAL 22.26 RAD 6570.4 VEL 15.816 PTH 2.80 VHP 19.355 DPA -6.33 RAP 351.75 ECC 3.1199
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 4 3193.67 -26.18 110.30 283.30 78.79 5 48 18 2593.7 -27.46 101.87
 90.00 21 17 32 4763.43 17.15 204.50 270.34 67.12 22 36 56 4163.4 13.91 197.33
 100.00 6 25 39 2901.57 -28.01 89.22 283.70 79.11 7 14 0 2301.6 -29.23 80.62
 100.00 22 29 39 4530.76 18.87 186.62 269.57 66.38 23 45 10 3930.8 15.52 179.43
 110.00 7 54 20 2624.11 -32.83 69.18 284.74 79.90 8 38 4 2024.1 -33.88 60.10
 110.00 23 17 28 4380.99 23.33 173.06 267.37 64.27 24 30 28 3781.0 19.67 165.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7193 TRA-1.8434 TC3 -.1515 BAU .2663
 ROE -.8445 RRA .3359 RC3 -.0308 FAU .01394
 FDE .4479 FRA .8313 FC3 -.0937 BSP 3163
 BOE 1.1094 BRA 1.8738 BC3 .1546 FSP -108

SGT 1091.5 SGR 466.8 SG3 46.4
 RRT .0144 RRF -.0168 RTF -.7401
 SGB 1187.1 R23 -.0037 R13 -.7401
 SGI 1091.5 SG2 466.7 THA .43

ST 465.5 SR 429.6 SS 437.4
 CRT .6971 CRS .7959 CST .9877
 LSA 726.0 MSA 255.4 SSA 14.9
 EL1 583.9 EL2 245.6 ALF 41.72

LAUNCH DATE DEC 17 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 179.924

RL 147.21 LAL .00 LOL 85.12 VL 21.949 GAL 14.83 AZL 86.43 HCA 67.14 SMA 100.44 ECC .51780 INC 3.5719 V1 30.265
 RP 107.52 LAP 3.29 LOP 152.23 VP 33.871 GAP -30.95 AZP 88.61 TAL 165.20 TAP 232.35 RCA 48.43 APO 152.45 V2 35.243
 RC 57.501 GL 7.00 GP .87 ZAL 57.87 ZAP 19.51 ETS 182.78 ZAE 144.96 ETE 194.45 ZAC 86.24 ETC 166.12 CLP 19.49

PLANETOCENTRIC CONIC

C3 117.579 VHL 10.843 DLA 17.12 RAL 22.93 RAD 6570.2 VEL 15.457 PTH 2.76 VHP 18.570 DPA -5.58 RAP 353.41 ECC 2.9351
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 55 3201.86 -26.07 110.87 282.86 78.53 5 44 16 2601.9 -27.39 102.45
 90.00 21 27 2 4719.24 15.96 201.80 269.84 66.30 22 45 41 4119.2 12.62 194.71
 100.00 6 22 5 2907.84 -27.93 89.66 283.28 78.89 7 10 33 2307.8 -29.18 81.08
 100.00 22 38 33 4488.49 17.70 184.03 269.03 65.51 23 53 21 3888.5 14.24 176.94
 110.00 7 51 59 2626.56 -32.80 69.36 284.34 79.80 8 35 46 2026.6 -33.86 60.29
 110.00 23 25 8 4342.53 22.17 170.68 266.75 63.29 24 37 31 3742.5 18.40 163.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7207 TRA-1.8445 TC3 -.1563 BAU .2514
 ROE -.8092 RRA .3143 RC3 -.0338 FAU .01427
 FDE .4655 FRA .8589 FC3 -.1051 BSP 3363
 BOE 1.0836 BRA 1.8711 BC3 .1600 FSP -119

SGT 1140.2 SGR 467.3 SG3 50.2
 RRT .0196 RRF -.0220 RTF -.7554
 SGB 1232.2 R23 -.0041 R13 -.7554
 SGI 1140.2 SG2 467.2 THA .55

ST 488.6 SR 430.7 SS 456.2
 CRT .6980 CRS .7979 CST .9875
 LSA 751.8 MSA 258.7 SSA 15.1
 EL1 601.2 EL2 250.7 ALF 39.87

LAUNCH DATE DEC 17 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 22.389 GAL 14.16 AZL 86.46 MCA 70.39 SMA 101.95 ECC .49518 INC 3.5383 V1 30.265
 RP 107.54 LAP 3.33 LOP 155.48 VP 34.152 GAP -29.53 AZP 88.81 TAL 164.55 TAP 234.94 RCA 51.46 APO 152.43 V2 35.238
 RC 55.726 GL 7.43 GP .91 ZAL 57.11 ZAP 18.09 ETS 183.21 ZAE 146.19 ETE 195.42 ZAC 88.00 ETC 166.22 CLP 18.07

PLANETOCENTRIC CONIC

C3 107.364 VHL 10.362 DLA 17.81 RAL 23.54 RAD 6570.1 VEL 15.123 PTH 2.72 VHP 17.811 DPA -4.81 RAP 355.07 ECC 2.7669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 26 3209.59 -25.96 111.42 282.31 78.27 5 39 55 2609.6 -27.32 103.01
 90.00 21 36 24 4674.29 14.71 199.09 269.29 65.53 22 54 18 4074.3 11.29 192.09
 100.00 6 18 14 2913.55 -27.85 90.07 282.75 78.69 7 6 48 2313.6 -29.13 81.50
 100.00 22 47 17 4445.56 16.47 181.43 268.45 64.69 24 1 23 3845.6 12.92 174.43
 110.00 7 49 24 2628.33 -32.78 69.50 283.84 79.72 8 33 12 2028.3 -33.85 60.43
 110.00 23 32 37 4303.55 20.96 168.30 266.09 62.35 24 44 20 3703.5 17.09 161.31

DIFFERENTIAL CORRECTIONS

TDE -.7224 TRA-1.8442 TC3 -.1604 BAU .2363 SGT 1190.5 SGR 467.0 SG3 54.4 ST 512.8 SR 431.2 SS 475.8
 RDE -.7743 RRA .2930 RC3 -.0369 FAU .01464 RRT .0256 RRF -.0278 RTF -.7699 CRT .6995 CRS .8003 CST .9873
 FDE .4840 FRA .8873 FC3 -.1181 BSP 3567 SGB 1278.8 R23 -.0046 R13 -.7699 LSA 778.9 MSA 261.4 SSA 15.2
 BOE 1.0590 BRA 1.8674 BC3 .1646 FSP -131 SG1 1190.6 SG2 466.8 THA .68 EL1 619.5 EL2 255.1 ALF 38.01

LAUNCH DATE DEC 17 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 22.800 GAL 13.52 AZL 86.49 MCA 73.63 SMA 103.42 ECC .47342 INC 3.5061 V1 30.265
 RP 107.56 LAP 3.36 LOP 158.72 VP 34.417 GAP -28.17 AZP 89.01 TAL 163.93 TAP 237.56 RCA 54.46 APO 152.38 V2 35.232
 RC 54.021 GL 7.87 GP .95 ZAL 56.41 ZAP 16.68 ETS 183.71 ZAE 147.56 ETE 196.50 ZAC 89.76 ETC 166.31 CLP 16.65

PLANETOCENTRIC CONIC

C3 98.075 VHL 9.903 DLA 18.49 RAL 24.09 RAD 6569.9 VEL 14.813 PTH 2.68 VHP 17.077 DPA -4.03 RAP 356.73 ECC 2.6141
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 37 3216.98 -25.86 111.93 281.65 78.04 5 35 14 2617.0 -27.25 103.54
 90.00 21 45 39 4628.58 13.41 196.37 268.70 64.82 23 2 47 4028.6 9.90 189.44
 100.00 6 14 5 2918.80 -27.78 90.45 282.10 78.50 7 2 44 2318.8 -29.09 81.88
 100.00 22 55 52 4401.99 15.18 178.84 267.82 63.94 24 9 14 3802.0 11.55 171.92
 110.00 7 46 33 2629.48 -32.77 69.58 283.22 79.67 8 30 23 2029.5 -33.84 60.51
 110.00 23 39 53 4264.07 19.69 165.94 265.38 61.48 24 50 57 3664.1 15.73 159.06

DIFFERENTIAL CORRECTIONS

TDE -.7272 TRA-1.8451 TC3 -.1647 BAU .2222 SGT 1245.1 SGR 466.0 SG3 59.0 ST 539.5 SR 431.0 SS 496.6
 RDE -.7399 RRA .2721 RC3 -.0402 FAU .01504 RRT .0332 RRF -.0347 RTF -.7834 CRT .7023 CRS .8030 CST .9873
 FDE .5041 FRA .9170 FC3 -.1327 BSP 3713 SGB 1329.4 R23 -.0045 R13 -.7834 LSA 808.7 MSA 263.3 SSA 15.4
 BOE 1.0374 BRA 1.8651 BC3 .1695 FSP -143 SG1 1245.2 SG2 465.7 THA .83 EL1 640.3 EL2 258.5 ALF 36.06

LAUNCH DATE DEC 17 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 23.184 GAL 12.90 AZL 86.53 MCA 76.87 SMA 104.87 ECC .45253 INC 3.4750 V1 30.265
 RP 107.58 LAP 3.38 LOP 161.97 VP 34.666 GAP -26.87 AZP 89.21 TAL 163.34 TAP 240.21 RCA 57.41 APO 152.32 V2 35.226
 RC 52.393 GL 8.32 GP 1.00 ZAL 55.78 ZAP 15.28 ETS 184.29 ZAE 149.08 ETE 197.71 ZAC 91.53 ETC 166.38 CLP 15.24

PLANETOCENTRIC CONIC

C3 89.625 VHL 9.467 DLA 19.16 RAL 24.59 RAD 6569.8 VEL 14.525 PTH 2.64 VHP 16.367 DPA -3.24 RAP 358.39 ECC 2.4750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 27 3224.11 -25.76 112.43 280.89 77.81 5 30 11 2624.1 -27.18 104.05
 90.00 21 54 47 4582.10 12.04 193.64 268.06 64.18 23 11 9 3982.1 8.47 186.78
 100.00 6 9 37 2923.66 -27.72 90.79 281.35 78.33 6 58 21 2323.7 -29.04 82.24
 100.00 23 4 18 4357.77 13.84 176.24 267.15 63.24 24 16 56 3757.8 10.14 169.40
 110.00 7 43 28 2630.07 -32.76 69.63 282.49 79.64 8 27 18 2030.1 -33.84 60.56
 110.00 23 46 57 4224.13 18.37 163.59 264.64 60.66 24 57 21 3624.1 14.33 156.81

DIFFERENTIAL CORRECTIONS

TDE -.7301 TRA-1.8419 TC3 -.1669 BAU .2067 SGT 1299.2 SGR 464.2 SG3 64.1 ST 566.3 SR 430.1 SS 518.1
 RDE -.7061 RRA .2516 RC3 -.0436 FAU .01549 RRT .0409 RRF -.0423 RTF -.7965 CRT .7051 CRS .8059 CST .9872
 FDE .5251 FRA .9473 FC3 -.1496 BSP 3918 SGB 1379.6 R23 -.0049 R13 -.7965 LSA 839.0 MSA 264.5 SSA 15.5
 BOE 1.0157 BRA 1.8591 BC3 .1725 FSP -157 SG1 1299.3 SG2 463.7 THA .96 EL1 661.4 EL2 261.1 ALF 34.22

LAUNCH DATE DEC 17 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 23.543 GAL 12.31 AZL 86.56 MCA 80.11 SMA 106.27 ECC .43250 INC 3.4446 V1 30.265
 RP 107.60 LAP 3.39 LOP 165.22 VP 34.900 GAP -25.62 AZP 89.41 TAL 162.78 TAP 242.89 RCA 60.31 APO 152.24 V2 35.219
 RC 50.852 GL 8.78 GP 1.05 ZAL 55.20 ZAP 13.88 ETS 184.98 ZAE 150.74 ETE 199.09 ZAC 93.29 ETC 165.43 CLP 13.84

PLANETOCENTRIC CONIC

C3 81.940 VHL 9.052 DLA 19.82 RAL 25.03 RAD 6569.6 VEL 14.258 PTH 2.60 VHP 15.680 DPA -2.45 RAP .05 ECC 2.3485
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 55 3231.10 -25.65 112.92 280.01 77.58 5 24 46 2631.1 -27.11 104.55
 90.00 22 3 50 4534.85 10.63 190.89 267.39 63.60 23 19 25 3934.9 7.00 184.09
 100.00 6 4 50 2928.23 -27.65 91.12 280.49 78.17 6 53 38 2328.2 -29.00 82.57
 100.00 23 12 36 4312.95 12.45 173.63 266.44 62.60 24 24 29 3713.0 8.68 166.87
 110.00 7 40 6 2630.16 -32.76 69.64 281.65 79.64 8 23 57 2030.2 -33.84 60.57
 110.00 23 53 49 4183.78 17.01 161.25 263.85 59.89 25 3 33 3583.8 12.88 154.58

DIFFERENTIAL CORRECTIONS

TDE -.7332 TRA-1.8369 TC3 -.1678 BAU .1909 SGT 1354.6 SGR 461.6 SG3 69.5 ST 594.1 SR 428.5 SS 540.6
 RDE -.6730 RRA .2317 RC3 -.0472 FAU .01600 RRT .0495 RRF -.0507 RTF -.8089 CRT .7085 CRS .8092 CST .9871
 FDE .5476 FRA .9788 FC3 -.1691 BSP 4135 SGB 1431.1 R23 -.0054 R13 -.8090 LSA 870.8 MSA 265.0 SSA 15.6
 BOE .9952 BRA 1.8515 BC3 .1743 FSP -173 SG1 1354.9 SG2 460.9 THA 1.09 EL1 683.7 EL2 262.8 ALF 32.43

LAUNCH DATE DEC 17 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 23.879 GAL 11.73 AZL 86.59 HCA 83.35 SMA 107.65 ECC .41334 INC 3.4149 VI 30.265
 RP 107.62 LAP 3.39 LOP 168.47 VP 35.120 GAP -24.41 AZP 89.60 TAL 162.26 TAP 245.61 RCA 63.15 APO 152.14 V2 35.211
 RC 49.405 GL 9.26 GP 1.10 ZAL 54.69 ZAP 12.48 ETS 185.83 ZAE 152.54 ETE 200.68 ZAC 95.06 ETC 166.46 CLP 12.43

PLANETOCENTRIC CONIC

C3 74.952 VHL 8.657 DLA 20.47 RAL 25.41 RAD 6569.5 VEL 14.011 PTH 2.56 VHP 15.015 DPA -1.64 RAP 1.70 ECC 2.2335
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 59 3238.06 -25.55 113.40 279.04 77.36 5 18 57 2638.1 -27.04 105.05
 90.00 22 12 49 4486.86 9.16 188.12 266.67 63.09 23 27 36 3886.9 5.48 181.38
 100.00 5 59 43 2932.60 -27.59 91.43 279.54 78.02 6 48 35 2332.6 -28.96 82.89
 100.00 23 20 46 4267.55 11.01 171.03 265.69 62.03 24 31 54 3667.6 7.19 164.33
 110.00 7 36 29 2629.84 -32.76 69.61 280.72 79.65 8 20 19 2029.8 -33.84 60.54
 110.00 0 4 25 4143.08 15.61 158.93 263.04 59.20 1 13 28 3543.1 11.41 152.35

DIFFERENTIAL CORRECTIONS

TDE -.7370 TRA-1.8303 TC3 -.1673 BAU .1752
 RDE -.6406 RRA .2123 RC3 -.0508 FAU .01656
 FDE .5718 FRA 1.0117 FC3 -.1913 BSP 4347
 BDE .9765 BRA 1.8426 BC3 .1748 FSP -190

MID-COURSE EXECUTION ACCURACY

SGT 1411.9 SGR 458.2 SG3 75.5
 RRT .0593 RRF -.0603 RTF -.8207
 SGB 1484.4 R23 -.0059 R13 -.8208
 SG1 1412.2 SG2 457.3 THA 1.23

ORBIT DETERMINATION ACCURACY

ST 623.2 SR 426.3 SS 564.4
 CRT .7126 CRS .8128 CST .9871
 LSA 904.7 MSA 264.7 SSA 15.7
 EL1 707.7 EL2 263.4 ALF 30.69

LAUNCH DATE DEC 17 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 24.193 GAL 11.19 AZL 86.61 HCA 86.59 SMA 108.98 ECC .39504 INC 3.3856 VI 30.265
 RP 107.65 LAP 3.38 LOP 171.71 VP 35.325 GAP -23.26 AZP 89.80 TAL 161.78 TAP 248.37 RCA 65.93 APO 152.03 V2 35.202
 RC 48.064 GL 9.74 GP 1.16 ZAL 54.23 ZAP 11.09 ETS 186.90 ZAE 154.48 ETE 202.54 ZAC 96.82 ETC 166.48 CLP 11.03

PLANETOCENTRIC CONIC

C3 68.597 VHL 8.282 DLA 21.11 RAL 25.74 RAD 6569.3 VEL 13.782 PTH 2.52 VHP 14.372 DPA -.83 RAP 3.34 ECC 2.1289
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 38 3245.14 -25.44 113.89 277.97 77.14 5 12 43 2645.1 -26.96 105.55
 90.00 22 21 44 4438.12 7.65 185.34 265.92 62.65 23 35 42 3838.1 3.92 178.64
 100.00 5 54 14 2936.87 -27.53 91.73 278.49 77.87 6 43 11 2336.9 -28.93 83.20
 100.00 23 28 49 4221.62 9.54 168.42 264.91 61.54 24 39 11 3621.6 5.66 161.77
 110.00 7 32 35 2629.17 -32.77 69.56 279.69 79.68 8 16 24 2029.2 -33.85 60.49
 110.00 0 10 53 4102.08 14.16 156.63 262.19 58.56 1 19 15 3502.1 9.90 150.13

DIFFERENTIAL CORRECTIONS

TDE -.7410 TRA-1.8217 TC3 -.1647 BAU .1591
 RDE -.6090 RRA .1934 RC3 -.0544 FAU .01719
 FDE .5977 FRA 1.0459 FC3 -.2170 BSP 4574
 BDE .9591 BRA 1.8319 BC3 .1735 FSP -209

MID-COURSE EXECUTION ACCURACY

SGT 1470.4 SGR 454.1 SG3 82.0
 RRT .0702 RRF -.0710 RTF -.8320
 SGB 1538.9 R23 -.0065 R13 -.8320
 SG1 1470.7 SG2 452.8 THA 1.37

ORBIT DETERMINATION ACCURACY

ST 653.5 SR 423.5 SS 589.3
 CRT .7174 CRS .8168 CST .9872
 LSA 940.2 MSA 263.6 SSA 15.8
 EL1 732.9 EL2 263.0 ALF 29.02

LAUNCH DATE DEC 17 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 24.485 GAL 10.66 AZL 86.64 HCA 89.83 SMA 110.27 ECC .37761 INC 3.3565 VI 30.265
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.518 GAP -22.15 AZP 89.99 TAL 161.33 TAP 251.16 RCA 68.63 APO 151.91 V2 35.194
 RC 46.839 GL 10.24 GP 1.23 ZAL 53.84 ZAP 9.70 ETS 188.27 ZAE 156.55 ETE 204.76 ZAC 98.57 ETC 166.47 CLP 9.62

PLANETOCENTRIC CONIC

C3 62.822 VHL 7.926 DLA 21.74 RAL 26.00 RAD 6569.2 VEL 13.571 PTH 2.48 VHP 13.750 DPA -.02 RAP 4.98 ECC 2.0339
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 51 3252.46 -25.33 114.40 276.81 76.91 5 6 4 2652.5 -26.89 106.07
 90.00 22 30 37 4388.65 6.09 182.54 265.14 62.29 23 43 46 3788.7 2.33 175.88
 100.00 5 48 24 2941.14 -27.47 92.03 277.35 77.72 6 37 25 2341.1 -28.89 83.52
 100.00 23 36 45 4175.20 8.02 165.81 264.10 61.11 24 46 21 3575.2 4.10 159.21
 110.00 7 28 25 2628.23 -32.78 69.49 278.57 79.72 8 12 14 2028.2 -33.85 60.42
 110.00 0 17 10 4060.88 12.69 154.35 261.31 57.99 1 24 50 3460.9 8.37 147.92

DIFFERENTIAL CORRECTIONS

TDE -.7458 TRA-1.8115 TC3 -.1604 BAU .1432
 RDE -.5783 RRA .1750 RC3 -.0580 FAU .01789
 FDE .6259 FRA 1.0819 FC3 -.2465 BSP 4792
 BDE .9437 BRA 1.8200 BC3 .1705 FSP -230

MID-COURSE EXECUTION ACCURACY

SGT 1530.6 SGR 449.2 SG3 89.2
 RRT .0825 RRF -.0831 RTF -.8425
 SGB 1595.1 R23 -.0071 R13 -.8426
 SG1 1531.1 SG2 447.5 THA 1.52

ORBIT DETERMINATION ACCURACY

ST 685.3 SR 420.0 SS 615.8
 CRT .7230 CRS .8212 CST .9873
 LSA 978.0 MSA 261.8 SSA 15.9
 EL1 760.0 EL2 261.6 ALF 27.42

LAUNCH DATE DEC 17 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 24.758 GAL 10.15 AZL 86.67 HCA 93.06 SMA 111.52 ECC .36101 INC 3.3274 VI 30.265
 RP 107.71 LAP 3.32 LOP 178.19 VP 35.697 GAP -21.08 AZP 90.18 TAL 160.93 TAP 253.99 RCA 71.26 APO 151.78 V2 35.184
 RC 45.742 GL 10.74 GP 1.30 ZAL 53.51 ZAP 8.31 ETS 190.13 ZAE 158.74 ETE 207.47 ZAC 100.31 ETC 166.45 CLP 8.20

PLANETOCENTRIC CONIC

C3 57.574 VHL 7.588 DLA 22.35 RAL 26.21 RAD 6569.0 VEL 13.377 PTH 2.44 VHP 13.149 DPA .80 RAP 6.61 ECC 1.9475
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 37 3260.18 -25.21 114.93 275.56 76.66 4 58 57 2660.2 -26.80 106.62
 90.00 22 39 30 4338.48 4.49 179.72 264.33 62.01 23 51 48 3738.5 .72 173.08
 100.00 5 42 12 2945.52 -27.41 92.34 276.12 77.57 6 31 18 2345.5 -28.84 83.83
 100.00 23 44 36 4128.37 6.47 163.19 263.25 60.75 24 53 24 3528.4 2.52 156.63
 110.00 7 23 59 2627.08 -32.80 69.40 277.37 79.77 8 7 46 2027.1 -33.86 60.33
 110.00 0 23 14 4019.58 11.19 152.10 260.40 57.49 1 30 13 3419.6 6.82 145.73

DIFFERENTIAL CORRECTIONS

TDE -.7509 TRA-1.7994 TC3 -.1535 BAU .1273
 RDE -.5485 RRA .1572 RC3 -.0615 FAU .01866
 FDE .6565 FRA 1.1198 FC3 -.2806 BSP 5023
 BDE .9298 BRA 1.8062 BC3 .1653 FSP -253

MID-COURSE EXECUTION ACCURACY

SGT 1591.9 SGR 443.5 SG3 97.1
 RRT .0963 RRF -.0967 RTF -.8525
 SGB 1652.5 R23 -.0079 R13 -.8526
 SG1 1592.5 SG2 441.3 THA 1.66

ORBIT DETERMINATION ACCURACY

ST 718.2 SR 415.9 SS 643.8
 CRT .7293 CRS .8260 CST .9874
 LSA 1017.7 MSA 259.2 SSA 16.0
 EL1 788.4 EL2 259.2 ALF 25.90

LAUNCH DATE DEC 17 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 25.013 GAL 9.67 AZL 86.70 MCA 96.30 SMA 112.72 ECC .34525 INC 3.2982 V1 30.265
 RP 107.74 LAP 3.28 LOP 181.43 VP 35.864 GAP -20.04 AZP 90.36 TAL 160.56 TAP 256.86 RCA 73.80 APO 151.63 V2 35.174
 RC 44.782 GL 11.26 GP 1.39 ZAL 53.25 ZAP 6.92 ETS 192.76 ZAE 161.02 ETE 210.85 ZAC 102.04 ETC 166.40 CLP 6.78

PLANETOCENTRIC CONIC

C3 52.807 VHL 7.267 DLA 22.96 RAL 26.35 RAD 6568.9 VEL 13.197 PTH 2.41 VHP 12.567 DPA 1.63 RAP 8.22 ECC 1.8691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 54 3268.45 -25.08 115.50 274.23 76.41 4 51 22 2668.5 -26.71 107.21
 90.00 22 48 23 4287.60 2.86 176.87 263.50 61.82 23 59 50 3687.6 -93 170.24
 100.00 5 35 38 2950.11 -27.34 92.67 274.81 77.41 6 24 48 2350.1 -28.80 84.17
 100.00 23 52 20 4081.18 4.89 160.58 262.38 60.47 25 0 21 3481.2 .92 154.04
 110.00 7 19 18 2625.79 -32.81 69.31 276.09 79.83 8 3 3 2025.8 -33.87 60.23
 110.00 0 29 5 3978.26 9.67 149.86 259.46 57.05 1 35 24 3378.3 5.26 143.54

DIFFERENTIAL CORRECTIONS

TDE -.7565 TRA-1.7853 TC3 -.1440 BAU .1115 SGT 1654.3 SGR 437.2 SG3 105.8 ST 752.4 SR 411.3 SS 673.4
 RDE -.5197 RRA .1400 RC3 -.0648 FAU .01952 RRT .1118 RRF -.1121 RTF -.8619 CRT .7365 CRS .8312 CST .9877
 FDE .6897 FRA 1.1599 FC3 -.3200 BSP 5251 SGB 1711.0 R23 -.0086 R13 -.8620 LSA 1059.8 MSA 255.9 SSA 16.1
 BOE .9178 BRA 1.7908 BC3 .1579 FSP -279 SGI 1655.0 SG2 434.2 TMA 1.82 EL1 818.5 EL2 255.8 ALF 24.47

LAUNCH DATE DEC 17 1968

FLIGHT TIME 104.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 25.251 GAL 9.20 AZL 86.73 MCA 99.53 SMA 113.87 ECC .33030 INC 3.2686 V1 30.265
 RP 107.77 LAP 3.22 LOP 184.67 VP 36.020 GAP -19.05 AZP 90.54 TAL 160.24 TAP 259.77 RCA 76.26 APO 151.48 V2 35.164
 RC 43.971 GL 11.78 GP 1.48 ZAL 53.04 ZAP 5.54 ETS 196.78 ZAE 163.36 ETE 215.22 ZAC 103.75 ETC 166.32 CLP 5.34

PLANETOCENTRIC CONIC

C3 48.479 VHL 6.963 DLA 23.55 RAL 26.44 RAD 6568.8 VEL 13.032 PTH 2.38 VHP 12.004 DPA 2.45 RAP 9.81 ECC 1.7978
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 48 40 3277.43 -24.94 116.12 272.82 76.13 4 43 18 2677.4 -26.60 107.85
 90.00 22 57 18 4236.04 1.20 173.99 262.64 61.71 24 7 54 3636.0 -2.59 167.36
 100.00 5 28 41 2954.98 -27.27 93.01 273.44 77.25 6 17 56 2355.0 -28.75 84.52
 100.00 0 3 55 4033.73 3.30 157.96 261.48 60.27 1 11 8 3433.7 -.69 151.44
 110.00 7 14 21 2624.41 -32.83 69.20 274.74 79.89 7 58 5 2024.4 -33.87 60.12
 110.00 0 34 44 3937.07 8.13 147.66 258.50 56.68 1 40 21 3337.1 3.69 141.38

DIFFERENTIAL CORRECTIONS

TDE -.7626 TRA-1.7694 TC3 -.1312 BAU .0957 SGT 1717.5 SGR 430.1 SG3 115.3 ST 788.0 SR 406.1 SS 704.9
 RDE -.4919 RRA .1233 RC3 -.0678 FAU .02048 RRT .1293 RRF -.1295 RTF -.8708 CRT .7444 CRS .8369 CST .9879
 FDE .7260 FRA 1.2023 FC3 -.3657 BSP 5483 SGB 1770.6 R23 -.0096 R13 -.8709 LSA 1104.1 MSA 251.8 SSA 16.1
 BOE .9075 BRA 1.7737 BC3 .1477 FSP -307 SGI 1718.5 SG2 426.3 TMA 1.98 EL1 850.1 EL2 251.4 ALF 23.13

LAUNCH DATE DEC 17 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 25.472 GAL 8.76 AZL 86.76 MCA 102.76 SMA 114.98 ECC .31615 INC 3.2385 V1 30.265
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.165 GAP -18.09 AZP 90.72 TAL 159.97 TAP 262.72 RCA 78.63 APO 151.33 V2 35.153
 RC 43.319 GL 12.30 GP 1.58 ZAL 52.89 ZAP 4.20 ETS 203.55 ZAE 165.69 ETE 221.03 ZAC 105.43 ETC 166.23 CLP 3.89

PLANETOCENTRIC CONIC

C3 44.950 VHL 6.675 DLA 24.12 RAL 26.47 RAD 6568.7 VEL 12.881 PTH 2.35 VHP 11.460 DPA 3.28 RAP 11.39 ECC 1.7332
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 39 55 3287.30 -24.77 116.80 271.35 75.83 4 34 42 2687.3 -26.48 108.54
 90.00 23 6 18 4183.80 -.48 171.08 261.77 61.69 24 16 1 3583.8 -4.27 164.44
 100.00 5 21 22 2960.23 -27.19 93.38 271.99 77.07 6 10 42 2360.2 -28.70 84.90
 100.00 0 11 28 3986.09 1.68 155.34 260.56 60.15 1 17 54 3386.1 -2.30 148.82
 110.00 7 9 10 2622.97 -32.85 69.09 273.32 79.95 7 52 52 2023.0 -33.88 60.01
 110.00 0 40 10 3896.12 6.60 145.48 257.51 56.38 1 45 6 3296.1 2.13 139.24

DIFFERENTIAL CORRECTIONS

TDE -.7695 TRA-1.7517 TC3 -.1158 BAU .0807 SGT 1781.8 SGR 422.5 SG3 125.8 ST 825.0 SR 400.5 SS 738.6
 RDE -.4653 RRA .1071 RC3 -.0704 FAU .02153 RRT .1493 RRF -.1492 RTF -.8791 CRT .7532 CRS .8430 CST .9883
 FDE .7659 FRA 1.2477 FC3 -.4184 BSP 5708 SGB 1831.2 R23 -.0105 R13 -.8793 LSA 1151.2 MSA 247.0 SSA 16.2
 BOE .8992 BRA 1.7550 BC3 .1355 FSP -338 SGI 1783.0 SG2 417.5 TMA 2.14 EL1 883.5 EL2 246.0 ALF 21.87

LAUNCH DATE DEC 17 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 25.677 GAL 8.34 AZL 86.79 MCA 105.98 SMA 116.04 ECC .30278 INC 3.2076 V1 30.265
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.299 GAP -17.17 AZP 90.88 TAL 159.73 TAP 265.71 RCA 80.90 APO 151.17 V2 35.141
 RC 42.834 GL 12.83 GP 1.70 ZAL 52.81 ZAP 2.95 ETS 216.62 ZAE 167.92 ETE 229.04 ZAC 107.09 ETC 166.10 CLP 2.41

PLANETOCENTRIC CONIC

C3 40.987 VHL 6.402 DLA 24.68 RAL 26.44 RAD 6568.6 VEL 12.742 PTH 2.32 VHP 10.934 DPA 4.11 RAP 12.94 ECC 1.6745
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 30 36 3298.22 -24.59 117.54 269.81 75.50 4 25 35 2698.2 -26.34 109.31
 90.00 23 15 24 4130.85 -2.19 168.12 260.87 61.76 24 24 14 3530.9 -5.95 161.46
 100.00 5 13 40 2965.92 -27.10 93.78 270.49 76.87 6 3 6 2365.9 -28.64 85.31
 100.00 0 18 57 3938.38 .07 152.73 259.62 60.11 1 24 35 3338.4 -3.91 146.20
 110.00 7 3 45 2621.51 -32.86 68.98 271.85 80.01 7 47 27 2021.5 -33.89 59.90
 110.00 0 45 21 3855.56 5.06 143.35 256.51 56.15 1 49 36 3255.6 .58 137.13

DIFFERENTIAL CORRECTIONS

TDE -.7765 TRA-1.7324 TC3 -.0961 BAU .0660 SGT 1846.4 SGR 414.3 SG3 137.5 ST 863.1 SR 394.5 SS 774.3
 RDE -.4398 RRA .0915 RC3 -.0725 FAU .02272 RRT .1716 RRF -.1715 RTF -.8870 CRT .7627 CRS .8496 CST .9886
 FDE .8095 FRA 1.2962 FC3 -.4798 BSP 5942 SGB 1892.3 R23 -.0117 R13 -.8871 LSA 1200.7 MSA 241.6 SSA 16.2
 BOE .8924 BRA 1.7348 BC3 .1204 FSP -373 SGI 1847.9 SG2 407.8 TMA 2.32 EL1 918.2 EL2 239.9 ALF 20.70

LAUNCH DATE DEC 17 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 266.279

RL 147.21 LAL .00 LOL 85.12 VL 25.869 GAL 7.93 AZL 86.82 MCA 109.21 SMA 117.04 ECC .29017 INC 3.1757 V1 30.265
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.423 GAP -16.28 AZP 91.05 TAL 159.54 TAP 268.75 RCA 83.08 APO 151.01 V2 35.129
 RC 42.524 GL 13.36 GP 1.83 ZAL 52.77 ZAP 2.04 ETS 244.97 ZAE 169.90 ETE 240.34 ZAC 108.72 ETC 165.95 CLP .92

PLANETOCENTRIC CONIC

C3 37.756 VHL 6.145 DLA 25.21 RAL 26.36 RAD 6568.5 VEL 12.614 PTH 2.29 VHP 10.426 DPA 4.94 RAP 14.47 ECC 1.6214
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 20 42 3310.41 -24.38 118.37 268.20 75.13 4 15 53 2710.4 -26.19 110.17
 90.00 23 24 39 4077.18 -3.92 165.12 259.96 61.93 24 32 36 3477.2 -7.64 158.42
 100.00 5 5 38 2972.09 -27.00 94.21 268.94 76.67 5 55 10 2372.1 -28.57 85.76
 100.00 0 26 19 3890.73 -1.55 150.11 258.65 60.14 1 31 10 3290.7 -5.51 143.57
 110.00 6 58 10 2620.01 -32.88 68.87 270.33 80.08 7 41 50 2020.0 -33.90 59.78
 110.00 0 50 17 3815.57 3.54 141.25 255.48 55.98 1 53 52 3215.6 -.95 135.04

DIFFERENTIAL CORRECTIONS

TDE -.7844 TRA-1.7116 TC3 -.0734 BAU .0526
 RDE -.4155 RRA .0762 RC3 -.0740 FAU .02403
 FDE .8576 FRA 1.3485 FC3 -.5509 BSP 6170
 BDE .8877 BRA 1.7133 BC3 .1042 FSP -411

MID-COURSE EXECUTION ACCURACY

SGT 1911.8 SGR 405.7 SG3 150.4
 RRT .1973 RRF -.1970 RTF -.8942
 SGB 1954.4 R23 -.0129 R13 -.8944
 SG1 1913.6 SG2 397.4 THA 2.51

ORBIT DETERMINATION ACCURACY

ST 902.8 SR 388.2 SS 812.6
 CRT .7731 CRS .8566 CST .9891
 LSA 1253.1 MSA 235.6 SSA 16.3
 EL1 954.8 EL2 232.8 ALF 19.60

LAUNCH DATE DEC 17 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 273.050

RL 147.21 LAL .00 LOL 85.12 VL 26.046 GAL 7.55 AZL 86.86 MCA 112.43 SMA 118.00 ECC .27829 INC 3.1425 V1 30.265
 RP 107.91 LAP 2.80 LOP 197.59 VP 36.538 GAP -15.41 AZP 91.20 TAL 159.39 TAP 271.82 RCA 85.17 APO 150.84 V2 35.117
 RC 42.392 GL 13.88 GP 1.97 ZAL 52.80 ZAP 2.06 ETS 288.87 ZAE 171.38 ETE 256.10 ZAC 110.31 ETC 165.77 CLP -.61

PLANETOCENTRIC CONIC

C3 34.827 VHL 5.901 DLA 25.73 RAL 26.23 RAD 6568.4 VEL 12.498 PTH 2.26 VHP 9.936 DPA 5.77 RAP 15.96 ECC 1.5732
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 10 10 3324.07 -24.14 119.30 266.55 74.73 4 5 35 2724.1 -26.00 111.13
 90.00 23 34 6 4022.72 -5.65 162.06 259.05 62.21 24 41 9 3422.7 -9.33 155.31
 100.00 4 57 17 2978.75 -26.90 94.68 267.34 76.44 5 46 56 2378.8 -28.50 86.24
 100.00 0 33 36 3843.27 -3.16 147.50 257.67 60.26 1 37 39 3243.3 -7.09 140.93
 110.00 6 52 26 2618.46 -32.90 68.75 268.77 80.15 7 36 5 2018.5 -33.91 59.66
 110.00 0 54 56 3776.33 2.05 139.20 254.43 55.87 1 57 53 3176.3 -2.45 132.99

DIFFERENTIAL CORRECTIONS

TDE -.7913 TRA-1.6881 TC3 -.0441 BAU .0403
 RDE -.3926 RRA .0615 RC3 -.0745 FAU .02549
 FDE .9104 FRA 1.4050 FC3 -.6337 BSP 6405
 BDE .8833 BRA 1.6892 BC3 .0866 FSP -455

MID-COURSE EXECUTION ACCURACY

SGT 1975.5 SGR 396.7 SG3 164.7
 RRT .2257 RRF -.2259 RTF -.9015
 SGB 2015.0 R23 -.0148 R13 -.9017
 SG1 1977.6 SG2 386.1 THA 2.70

ORBIT DETERMINATION ACCURACY

ST 942.4 SR 381.7 SS 853.3
 CRT .7840 CRS .8640 CST .9895
 LSA 1307.4 MSA 229.2 SSA 16.2
 EL1 991.5 EL2 225.2 ALF 18.61

LAUNCH DATE DEC 17 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 279.821

RL 147.21 LAL .00 LOL 85.12 VL 26.211 GAL 7.18 AZL 86.89 MCA 115.65 SMA 118.91 ECC .26712 INC 3.1078 V1 30.265
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.644 GAP -14.58 AZP 91.35 TAL 159.28 TAP 274.93 RCA 87.15 APO 150.68 V2 35.105
 RC 42.442 GL 14.39 GP 2.14 ZAL 52.87 ZAP 3.04 ETS 317.20 ZAE 172.08 ETE 276.04 ZAC 111.87 ETC 165.55 CLP -2.17

PLANETOCENTRIC CONIC

C3 32.173 VHL 5.672 DLA 26.21 RAL 26.04 RAD 6568.3 VEL 12.391 PTH 2.24 VHP 9.462 DPA 6.60 RAP 17.42 ECC 1.5295
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 58 3339.46 -23.86 120.34 264.85 74.28 3 54 38 2739.5 -25.79 112.20
 90.00 23 43 49 3967.36 -7.40 158.93 258.12 62.59 24 49 57 3367.4 -11.02 152.12
 100.00 4 48 40 2985.85 -26.78 95.18 265.70 76.20 5 38 25 2385.9 -28.42 86.76
 100.00 0 40 45 3796.20 -4.74 144.91 256.67 60.45 1 44 2 3196.2 -8.64 138.29
 110.00 6 46 37 2616.77 -32.92 68.62 267.18 80.22 7 30 14 2016.8 -33.92 59.53
 110.00 0 59 17 3738.04 .58 137.20 253.36 55.82 2 1 35 3138.0 -3.91 130.99

DIFFERENTIAL CORRECTIONS

TDE -.7988 TRA-1.6635 TC3 -.0116 BAU .0322
 RDE -.3709 RRA .0470 RC3 -.0739 FAU .02713
 FDE .9689 FRA 1.4662 FC3 -.7301 BSP 6628
 BDE .8807 BRA 1.6642 BC3 .0748 FSP -502

MID-COURSE EXECUTION ACCURACY

SGT 2039.5 SGR 387.6 SG3 180.6
 RRT .2584 RRF -.2590 RTF -.9080
 SGB 2076.0 R23 -.0168 R13 -.9082
 SG1 2042.0 SG2 373.9 THA 2.91

ORBIT DETERMINATION ACCURACY

ST 983.2 SR 375.0 SS 896.9
 CRT .7957 CRS .8719 CST .9900
 LSA 1364.6 MSA 222.3 SSA 16.2
 EL1 1029.7 EL2 216.9 ALF 17.69

LAUNCH DATE DEC 17 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 286.589

RL 147.21 LAL .00 LOL 85.12 VL 26.364 GAL 6.83 AZL 86.93 MCA 118.87 SMA 119.78 ECC .25665 INC 3.0712 V1 30.265
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.741 GAP -13.78 AZP 91.48 TAL 159.22 TAP 278.09 RCA 89.04 APO 150.52 V2 35.092
 RC 42.671 GL 14.90 GP 2.33 ZAL 52.99 ZAP 4.42 ETS 330.19 ZAE 171.82 ETE 296.64 ZAC 113.37 ETC 165.30 CLP -3.76

PLANETOCENTRIC CONIC

C3 29.770 VHL 5.456 DLA 26.67 RAL 25.81 RAD 6568.2 VEL 12.294 PTH 2.21 VHP 9.005 DPA 7.44 RAP 18.83 ECC 1.4899
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 47 2 3356.89 -23.53 121.52 263.10 73.78 3 42 59 2756.9 -25.53 113.42
 90.00 23 53 55 3910.92 -9.16 155.71 257.20 63.09 24 59 6 3310.9 -12.69 148.82
 100.00 4 39 50 2993.29 -26.66 95.70 264.04 75.96 5 29 43 2393.3 -28.33 87.29
 100.00 0 47 45 3749.76 -6.29 142.34 255.66 60.72 1 50 15 3149.8 -10.15 135.67
 110.00 6 40 46 2614.86 -32.94 68.48 265.56 80.30 7 24 21 2014.9 -33.93 59.38
 110.00 1 3 18 3700.95 -.84 135.26 252.28 55.83 2 4 59 3100.9 -5.31 129.04

DIFFERENTIAL CORRECTIONS

TDE -.8062 TRA-1.6373 TC3 .0251 BAU .0303
 RDE -.3507 RRA .0329 RC3 -.0720 FAU .02896
 FDE 1.0334 FRA 1.5332 FC3 -.8420 BSP 6842
 BDE .8792 BRA 1.6377 BC3 .0762 FSP -556

MID-COURSE EXECUTION ACCURACY

SGT 2102.3 SGR 378.5 SG3 198.3
 RRT .2957 RRF -.2969 RTF -.9140
 SGB 2136.1 R23 -.0192 R13 -.9143
 SG1 2105.4 SG2 361.0 THA 3.14

ORBIT DETERMINATION ACCURACY

ST 1024.7 SR 368.4 SS 943.5
 CRT .8081 CRS .8803 CST .9905
 LSA 1424.6 MSA 215.0 SSA 16.1
 EL1 1068.8 EL2 208.1 ALF 16.86

597A

LAUNCH DATE DEC 17 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 293.352

RL 147.21 LAL .00 LOL 85.12 VL 26.505 GAL 6.50 AZL 86.97 MCA 122.09 SMA 120.59 ECC .24684 INC 3.0323 V1 30.265
 RP 108.03 LAP 2.57 LOP 207.25 VP 36.831 GAP -13.00 AZP 91.61 TAL 159.19 TAP 281.28 RCA 90.82 APO 150.36 V2 35.080
 RC 43.078 GL 15.38 GP 2.54 ZAL 53.16 ZAP 5.97 ETS 336.82 ZAE 170.74 ETE 313.75 ZAC 114.81 ETC 165.02 CLP -5.40

PLANETOCENTRIC CONIC

C3 27.594 VHL 5.253 CLA 27.10 RAL 25.54 RAD 6568.1 VEL 12.205 PTH 2.19 VHP 8.564 DPA 8.27 RAP 20.19 ECC 1.4541
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 16 3376.81 -23.15 122.85 261.31 73.22 3 30 33 2776.8 -25.23 114.80
 90.00 0 8 27 3853.07 -10.92 152.38 256.28 63.71 1 12 40 3253.1 -14.37 145.40
 100.00 4 30 53 3000.86 -26.54 96.22 262.35 75.71 5 20 54 2400.9 -28.24 87.84
 100.00 0 54 31 3704.26 -7.80 139.80 254.63 61.05 1 56 15 3104.3 -11.60 133.08
 110.00 6 34 58 2612.56 -32.97 68.31 263.92 80.40 7 18 31 2012.6 -33.94 59.20
 110.00 1 6 55 3665.32 -2.20 133.40 251.18 55.88 2 8 0 3065.3 -6.66 127.16

DIFFERENTIAL CORRECTIONS

TOE -.8131 TRA-1.6098 TC3 .0672 BAU .0354
 RDE -.3319 RRA .0188 RC3 -.0684 FAU .03101
 FDE 1.1047 FRA 1.6064 FC3 -.9728 BSP 7061
 BOE .8782 BRA 1.6099 BC3 .0959 FSP -616

MID-COURSE EXECUTION ACCURACY

SGT 2163.7 SGR 369.8 SG3 218.1
 RRT .3381 RRF -.3401 RTF -.9197
 SGB 2195.1 R23 -.0222 R13 -.9200
 SG1 2167.4 SG2 347.4 THA 3.39

ORBIT DETERMINATION ACCURACY

ST 1066.2 SR 362.1 SS 993.1
 CRT .8211 CRS .8890 CST .9910
 LSA 1486.9 MSA 207.5 SSA 16.1
 EL1 1108.3 EL2 198.8 ALF 16.11

LAUNCH DATE DEC 17 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 300.107

RL 147.21 LAL .00 LOL 85.12 VL 26.636 GAL 6.19 AZL 87.01 MCA 125.30 SMA 121.36 ECC .23767 INC 2.9906 V1 30.265
 RP 108.07 LAP 2.44 LOP 210.46 VP 36.912 GAP -12.25 AZP 91.73 TAL 159.20 TAP 284.50 RCA 92.51 APO 150.20 V2 35.067
 RC 43.658 GL 15.84 GP 2.79 ZAL 53.36 ZAP 7.62 ETS 340.64 ZAE 169.19 ETE 326.31 ZAC 116.19 ETC 164.69 CLP -7.09

PLANETOCENTRIC CONIC

C3 25.623 VHL 5.062 CLA 27.48 RAL 25.23 RAD 6568.0 VEL 12.124 PTH 2.17 VHP 8.139 DPA 9.12 RAP 21.50 ECC 1.4217
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 20 28 3399.93 -22.68 124.39 259.49 72.58 3 17 8 2799.9 -24.85 116.39
 90.00 0 19 47 3793.20 -12.70 148.88 255.38 64.48 1 23 0 3193.2 -16.03 141.79
 100.00 4 21 59 3008.23 -26.41 96.74 260.66 75.46 5 12 7 2408.2 -28.15 88.36
 100.00 1 0 57 3660.13 -9.25 137.32 253.58 61.45 2 1 57 3060.1 -12.99 130.53
 110.00 6 29 20 2609.67 -33.00 68.09 262.27 80.53 7 12 50 2009.7 -33.95 58.98
 110.00 1 10 5 3631.46 -3.49 131.63 250.06 55.97 2 10 37 3031.5 -7.93 125.36

DIFFERENTIAL CORRECTIONS

TOE -.8194 TRA-1.5806 TC3 .1142 BAU .0446
 RDE -.3146 RRA .0048 RC3 -.0627 FAU .03330
 FDE 1.1836 FRA 1.6871 FC3-1.1250 BSP 7263
 BOE .8777 BRA 1.5806 BC3 .1303 FSP -682

MID-COURSE EXECUTION ACCURACY

SGT 2222.7 SGR 361.8 SG3 240.1
 RRT .3862 RRF -.3894 RTF -.9251
 SGB 2252.0 R23 -.0259 R13 -.9254
 SG1 2227.2 SG2 333.1 THA 3.68

ORBIT DETERMINATION ACCURACY

ST 1107.4 SR 356.1 SS 1046.1
 CRT .8347 CRS .8982 CST .9915
 LSA 1551.6 MSA 199.7 SSA 15.9
 EL1 1147.7 EL2 189.2 ALF 15.46

LAUNCH DATE DEC 17 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 306.852

RL 147.21 LAL .00 LOL 85.12 VL 26.757 GAL 5.90 AZL 87.05 MCA 128.51 SMA 122.08 ECC .22913 INC 2.9455 V1 30.265
 RP 108.11 LAP 2.30 LOP 213.67 VP 36.987 GAP -11.53 AZP 91.84 TAL 159.25 TAP 287.76 RCA 94.10 APO 150.05 V2 35.053
 RC 44.405 GL 16.27 GP 3.08 ZAL 53.60 ZAP 9.36 ETS 343.03 ZAE 167.44 ETE 335.35 ZAC 117.50 ETC 164.32 CLP -8.84

PLANETOCENTRIC CONIC

C3 23.839 VHL 4.882 CLA 27.82 RAL 24.89 RAD 6568.0 VEL 12.051 PTH 2.15 VHP 7.730 DPA 9.97 RAP 22.74 ECC 1.3923
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 15 3427.65 -22.11 126.21 257.62 71.84 3 2 23 2827.6 -24.38 118.28
 90.00 0 32 17 3729.98 -14.52 145.14 254.50 65.42 1 34 27 3130.0 -17.72 137.92
 100.00 4 13 18 3014.85 -26.30 97.19 258.98 75.25 5 3 33 2414.9 -28.07 88.84
 100.00 1 6 55 3618.01 -10.61 134.94 252.51 61.89 2 7 13 3018.0 -14.29 128.08
 110.00 6 23 59 2605.89 -33.04 67.80 260.63 80.69 7 7 25 2005.9 -33.97 58.68
 110.00 1 12 44 3599.74 -4.70 129.97 248.93 56.10 2 12 44 2999.7 -9.12 123.67

DIFFERENTIAL CORRECTIONS

TOE -.8221 TRA-1.5475 TC3 .1705 BAU .0570
 RDE -.2989 RRA -.0093 RC3 -.0545 FAU .03594
 FDE 1.2694 FRA 1.7747 FC3-1.3053 BSP 7520
 BOE .8748 BRA 1.5475 BC3 .1790 FSP -760

MID-COURSE EXECUTION ACCURACY

SGT 2274.8 SGR 355.0 SG3 264.7
 RRT .4393 RRF -.4446 RTF -.9303
 SGB 2302.3 R23 -.0309 R13 -.9307
 SG1 2280.2 SG2 318.1 THA 4.00

ORBIT DETERMINATION ACCURACY

ST 1144.7 SR 350.8 SS 1101.3
 CRT .8484 CRS .9076 CST .9920
 LSA 1615.3 MSA 192.1 SSA 15.7
 EL1 1183.7 EL2 179.6 ALF 14.93

LAUNCH DATE DEC 17 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 313.586

RL 147.21 LAL .00 LOL 85.12 VL 26.868 GAL 5.62 AZL 87.10 MCA 131.72 SMA 122.75 ECC .22119 INC 2.8961 V1 30.265
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.055 GAP -10.83 AZP 91.93 TAL 159.33 TAP 291.05 RCA 95.60 APO 149.90 V2 35.040
 RC 45.309 GL 16.65 GP 3.42 ZAL 53.87 ZAP 11.18 ETS 344.57 ZAE 165.66 ETE 342.05 ZAC 118.72 ETC 163.90 CLP -10.65

PLANETOCENTRIC CONIC

C3 22.223 VHL 4.714 CLA 28.11 RAL 24.53 RAD 6567.9 VEL 11.983 PTH 2.14 VHP 7.336 DPA 10.83 RAP 23.90 ECC 1.3657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 47 26 3464.02 -21.31 128.59 255.68 70.90 2 45 10 2864.0 -23.75 120.75
 90.00 0 47 14 3659.41 -16.48 140.88 253.69 66.64 1 48 13 3059.4 -19.50 133.50
 100.00 4 5 11 3019.91 -26.21 97.54 257.31 75.08 4 55 31 2419.9 -28.00 89.20
 100.00 1 12 10 3578.76 -11.86 132.69 251.42 62.36 2 11 48 2978.8 -15.47 125.76
 110.00 6 19 4 2600.87 -33.10 67.42 258.99 80.91 7 2 25 2000.9 -34.00 58.29
 110.00 1 14 46 3570.57 -5.80 128.44 247.78 56.25 2 14 17 2970.6 -10.20 122.10

DIFFERENTIAL CORRECTIONS

TOE -.8263 TRA-1.5161 TC3 .2256 BAU .0683
 RDE -.2850 RRA -.0238 RC3 -.0435 FAU .03882
 FDE 1.3656 FRA 1.8740 FC3-1.5121 BSP 7696
 BOE .8741 BRA 1.5163 BC3 .2298 FSP -844

MID-COURSE EXECUTION ACCURACY

SGT 2327.7 SGR 350.4 SG3 292.4
 RRT .5001 RRF -.5071 RTF -.9348
 SGB 2353.9 R23 -.0365 R13 -.9352
 SG1 2334.4 SG2 302.6 THA 4.38

ORBIT DETERMINATION ACCURACY

ST 1183.8 SR 346.6 SS 1161.3
 CRT .8630 CRS .9175 CST .9925
 LSA 1684.0 MSA 184.1 SSA 15.5
 EL1 1221.8 EL2 169.6 ALF 14.47

LAUNCH DATE DEC 17 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 320.307

RL 147.21 LAL .00 LOL 85.12 VL 26.970 GAL 5.36 AZL 87.16 MCA 134.93 SMA 123.38 ECC .21382 INC 2.8417 V1 30.265
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.117 GAP -10.15 AZP 92.01 TAL 159.45 TAP 294.37 RCA 97.00 APO 149.76 V2 35.027
 RC 46.364 GL 16.99 GP 3.82 ZAL 54.15 ZAP 13.10 ETS 345.57 ZAE 163.96 ETE 347.28 ZAC 119.84 ETC 163.43 CLP -12.54

PLANETOCENTRIC CONIC

C3 20.759 VHL 4.556 CLA 28.34 RAL 24.15 RAD 6567.8 VEL 11.922 PTH 2.12 VHP 6.958 DPA 11.72 RAP 24.97 ECC 1.3416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.89 1 6 38 3575.14 -19.43 135.98 253.31 68.96 2 6 13 2975.1 -22.12 128.34
 91.11 1 25 3 3515.44 -19.42 131.61 253.30 68.95 2 23 38 2915.4 -22.11 123.97
 100.00 3 58 1 3022.20 -26.17 97.70 255.68 75.01 4 48 23 2422.2 -27.97 89.37
 100.00 1 16 21 3543.61 -12.96 130.66 250.29 62.83 2 15 24 2943.6 -16.50 123.66
 110.00 6 14 46 2504.14 -33.17 66.90 257.38 81.21 6 58 0 1994.1 -34.03 57.77
 110.00 1 16 5 3544.44 -6.79 127.06 246.62 56.42 2 15 9 2944.4 -11.16 120.69

DIFFERENTIAL CORRECTIONS

TDE -.8284 TRA-1.4834 TC3 .2852 BAU .0795
 RDE -.2731 RRA -.0391 RC3 -.0289 FAU .04205
 FDE 1.4715 FRA 1.9850 FC3-1.7538 BSP 7857
 BDE .8723 BRA 1.4839 BC3 .2866 FSP -939

MID-COURSE EXECUTION ACCURACY

SGT 2375.9 SGR 348.9 SG3 323.5
 RRT .5663 RRF -.5756 RTF -.9390
 SGB 2401.4 R23 -.0437 R13 -.9395
 SG1 2384.2 SG2 286.6 THA 4.82

ORBIT DETERMINATION ACCURACY

ST 1220.5 SR 343.8 SS 1224.7
 CRT .8779 CRS .9276 CST .9930
 LSA 1754.0 MSA 176.2 SSA 15.2
 EL1 1257.9 EL2 159.7 ALF 14.13

LAUNCH DATE DEC 17 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 327.013

RL 147.21 LAL .00 LOL 85.12 VL 27.064 GAL 5.12 AZL 87.22 MCA 138.13 SMA 123.96 ECC .20699 INC 2.7808 V1 30.265
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.173 GAP -9.49 AZP 92.07 TAL 159.59 TAP 297.71 RCA 98.30 APO 149.62 V2 35.013
 RC 47.558 GL 17.26 GP 4.29 ZAL 54.45 ZAP 15.12 ETS 346.17 ZAE 162.41 ETE 351.60 ZAC 120.85 ETC 162.91 CLP -14.51

PLANETOCENTRIC CONIC

C3 19.430 VHL 4.408 CLA 28.49 RAL 23.78 RAD 6567.8 VEL 11.866 PTH 2.11 VHP 6.594 DPA 12.64 RAP 25.93 ECC 1.3198
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.70 0 46 47 3618.83 -19.92 139.38 251.91 69.20 1 47 5 3018.8 -22.58 131.70
 93.30 1 41 54 3440.24 -19.91 126.30 251.90 69.18 2 39 14 2840.2 -22.56 118.62
 100.00 3 52 22 3020.07 -26.21 97.56 254.11 75.08 4 42 42 2420.1 -28.00 89.21
 100.00 1 19 0 3514.23 -13.87 128.95 249.12 63.25 2 17 34 2914.2 -17.35 121.89
 110.00 6 11 18 2585.14 -33.26 66.22 255.78 81.61 6 54 23 1985.1 -34.06 57.07
 110.00 1 16 33 3521.93 -7.63 125.86 245.45 56.58 2 15 15 2921.9 -11.98 119.46

DIFFERENTIAL CORRECTIONS

TDE -.8273 TRA-1.4486 TC3 .3489 BAU .0907
 RDE -.2632 RRA -.0555 RC3 -.0097 FAU .04571
 FDE 1.5871 FRA 2.1086 FC3-2.0366 BSP 8016
 BDE .8682 BRA 1.4497 BC3 .3490 FSP -1046

MID-COURSE EXECUTION ACCURACY

SGT 2416.8 SGR 352.0 SG3 358.4
 RRT .6361 RRF -.6482 RTF -.9429
 SGB 2442.3 R23 -.0530 R13 -.9435
 SG1 2427.3 SG2 270.4 THA 5.36

ORBIT DETERMINATION ACCURACY

ST 1252.8 SR 343.1 SS 1291.0
 CRT .8929 CRS .9377 CST .9935
 LSA 1823.6 MSA 168.4 SSA 14.9
 EL1 1290.3 EL2 150.0 ALF 13.93

LAUNCH DATE DEC 17 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 333.703

RL 147.21 LAL .00 LOL 85.12 VL 27.150 GAL 4.89 AZL 87.29 MCA 141.33 SMA 124.51 ECC .20070 INC 2.7119 V1 30.265
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.223 GAP -8.85 AZP 92.12 TAL 159.75 TAP 301.08 RCA 99.52 APO 149.49 V2 35.000
 RC 48.883 GL 17.45 GP 4.86 ZAL 54.76 ZAP 17.26 ETS 346.47 ZAE 161.04 ETE 355.39 ZAC 121.72 ETC 162.31 CLP -16.58

PLANETOCENTRIC CONIC

C3 18.222 VHL 4.269 CLA 28.56 RAL 23.41 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 6.246 DPA 13.61 RAP 26.77 ECC 1.2999
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.08 0 40 12 3620.29 -20.33 139.65 250.54 69.50 1 40 33 3020.3 -22.94 131.93
 93.92 1 45 34 3408.59 -20.32 124.15 250.54 69.48 2 42 22 2808.6 -22.93 116.43
 100.00 3 48 56 3011.46 -26.36 96.96 252.62 75.36 4 39 7 2411.5 -28.11 88.60
 100.00 1 19 31 3492.65 -14.52 127.69 247.90 63.58 2 17 44 2892.6 -17.96 120.58
 110.00 6 8 56 2573.16 -33.37 65.30 254.23 82.14 6 51 50 1973.2 -34.10 56.14
 110.00 1 16 0 3503.71 -8.31 124.89 244.27 56.72 2 14 24 2903.7 -12.64 118.46

DIFFERENTIAL CORRECTIONS

TDE -.8209 TRA-1.4104 TC3 .4195 BAU .1023
 RDE -.2557 RRA -.0733 RC3 .0153 FAU .04990
 FDE 1.7111 FRA 2.2460 FC3-2.3706 BSP 8199
 BDE .8598 BRA 1.4123 BC3 .4197 FSP -1170

MID-COURSE EXECUTION ACCURACY

SGT 2447.0 SGR 361.2 SG3 397.4
 RRT .7061 RRF -.7217 RTF -.9466
 SGB 2473.5 R23 -.0650 R13 -.9474
 SG1 2460.4 SG2 254.4 THA 6.01

ORBIT DETERMINATION ACCURACY

ST 1277.6 SR 344.8 SS 1358.8
 CRT .9076 CRS .9478 CST .9939
 LSA 1889.8 MSA 160.8 SSA 14.4
 EL1 1315.8 EL2 140.5 ALF 13.93

LAUNCH DATE DEC 17 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 340.375

RL 147.21 LAL .00 LOL 85.12 VL 27.229 GAL 4.68 AZL 87.37 MCA 144.53 SMA 125.01 ECC .19491 INC 2.6326 V1 30.265
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.268 GAP -8.24 AZP 92.14 TAL 159.93 TAP 304.46 RCA 100.64 APO 149.37 V2 34.987
 RC 50.327 GL 17.53 GP 5.54 ZAL 55.05 ZAP 19.53 ETS 346.52 ZAE 159.88 ETE 358.94 ZAC 122.44 ETC 161.64 CLP -18.76

PLANETOCENTRIC CONIC

C3 17.122 VHL 4.138 CLA 28.53 RAL 23.08 RAD 6567.7 VEL 11.769 PTH 2.08 VHP 5.914 DPA 14.64 RAP 27.46 ECC 1.2818
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.33 0 40 55 3599.17 -20.65 138.23 249.21 69.86 1 40 54 2999.2 -23.21 130.47
 93.67 1 42 10 3400.77 -20.64 123.70 249.20 69.85 2 38 50 2800.8 -23.20 115.95
 100.00 3 48 26 2994.20 -26.65 95.76 251.22 75.93 4 38 21 2394.2 -28.32 87.36
 100.00 1 17 19 3480.98 -14.88 127.00 246.61 63.77 2 15 20 2881.0 -18.28 119.86
 110.00 6 7 59 2557.36 -33.51 64.09 252.71 82.84 6 50 37 1957.4 -34.14 54.90
 110.00 1 14 16 3490.59 -8.80 124.19 243.08 56.84 2 12 26 2890.6 -13.11 117.74

DIFFERENTIAL CORRECTIONS

TDE -.8134 TRA-1.3741 TC3 .4844 BAU .1114
 RDE -.2510 RRA -.0936 RC3 .0471 FAU .05446
 FDE 1.8476 FRA 2.4044 FC3-2.7537 BSP 8286
 BDE .8512 BRA 1.3773 BC3 .4867 FSP -1303

MID-COURSE EXECUTION ACCURACY

SGT 2473.8 SGR 379.6 SG3 441.4
 RRT .7738 RRF -.7927 RTF -.9497
 SGB 2502.7 R23 -.0803 R13 -.9507
 SG1 2491.3 SG2 238.8 THA 6.84

ORBIT DETERMINATION ACCURACY

ST 1300.3 SR 350.4 SS 1431.0
 CRT .9224 CRS .9576 CST .9944
 LSA 1959.0 MSA 153.1 SSA 14.0
 EL1 1340.3 EL2 131.3 ALF 14.10

LAUNCH DATE DEC 17 1968

FLIGHT TIME 134.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 347.030

RL 147.21 LAL .00 LOL 85.12 VL 27.301 GAL 4.49 AZL 87.46 HCA 147.73 SMA 125.47 ECC .18961 INC 2.5400 V1 30.265
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.308 GAP -7.64 AZP 92.15 TAL 160.12 TAP 307.85 RCA 101.68 APO 149.26 V2 34.974
 RC 51.881 GL 17.49 GP 6.38 ZAL 55.33 ZAP 21.96 ETS 346.32 ZAE 158.93 ETE 2.48 ZAC 122.97 ETC 160.88 CLP -21.06

PLANETOCENTRIC CONIC

C3 16.116 VHL 4.014 CLA 28.38 RAL 22.79 RAD 6567.6 VEL 11.726 PTH 2.07 VHP 5.598 DPA 15.76 RAP 27.97 ECC 1.2652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.08 0 54 19 3538.12 -20.87 133.84 247.93 70.32 1 53 18 2938.1 -23.36 126.05
 91.92 1 26 26 3434.05 -20.85 126.22 247.92 70.31 2 23 40 2834.1 -23.35 118.43
 100.00 3 51 31 2966.42 -27.09 93.82 249.93 76.86 4 40 57 2366.4 -28.63 85.35
 100.00 1 11 56 3480.98 -14.88 127.00 245.26 63.77 2 9 57 2881.0 -18.28 119.86
 110.00 6 8 48 2536.66 -33.68 62.50 251.23 83.77 6 51 5 1936.7 -34.17 53.29
 110.00 1 11 8 3483.51 -9.07 123.81 241.88 56.90 2 9 11 2883.5 -13.36 117.35

DIFFERENTIAL CORRECTIONS

TDE -.8002 TRA-1.3357 TC3 .5496 BAU .1199
 RDE -.2497 RRA -.1174 RC3 .0882 FAU .05960
 FDE 1.9914 FRA 2.5830 FC3-3.2015 BSP .8356
 BDE .8382 BRA 1.3408 BC3 .5566 FSP -1455

MID-COURSE EXECUTION ACCURACY

SGT 2488.7 SGR 410.2 SG3 490.6
 RRT .8334 RRF -.8556 RTF -.9524
 SGB 2522.3 R23 -.1000 R13 -.9537
 SG1 2512.3 SG2 224.5 THA 7.88

ORBIT DETERMINATION ACCURACY

ST 1314.2 SR 360.9 SS 1503.6
 CRT .9364 CRS .9669 CST .9948
 LSA 2024.1 MSA 145.5 SSA 13.4
 EL1 1357.3 EL2 122.6 ALF 14.54

LAUNCH DATE DEC 17 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 353.665

RL 147.21 LAL .00 LOL 85.12 VL 27.366 GAL 4.31 AZL 87.57 HCA 150.92 SMA 125.90 ECC .18476 INC 2.4294 V1 30.265
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.344 GAP -7.06 AZP 92.12 TAL 160.32 TAP 311.24 RCA 102.64 APO 149.16 V2 34.961
 RC 53.536 GL 17.27 GP 7.43 ZAL 55.58 ZAP 24.57 ETS 345.89 ZAE 158.19 ETE 6.26 ZAC 123.28 ETC 160.00 CLP -23.49

PLANETOCENTRIC CONIC

C3 15.189 VHL 3.897 CLA 28.06 RAL 22.57 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 5.299 DPA 17.02 RAP 28.27 ECC 1.2500
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 4 3363.71 -23.40 121.97 247.55 73.58 2 39 8 2763.7 -25.43 113.89
 90.00 0 35 56 3581.69 -18.51 136.08 245.74 68.18 1 35 38 2981.7 -21.31 128.52
 100.00 3 58 34 2926.88 -27.67 91.02 248.74 78.22 4 47 21 2326.9 -29.02 82.48
 100.00 1 3 7 3493.75 -14.49 127.75 243.86 63.57 2 1 21 2893.8 -17.92 120.64
 110.00 6 11 51 2509.71 -33.86 60.41 249.80 84.99 6 53 41 1909.7 -34.18 51.18
 110.00 1 6 19 3483.69 -9.06 123.82 240.69 56.90 2 4 23 2883.7 -13.36 117.36

DIFFERENTIAL CORRECTIONS

TDE -.7788 TRA-1.2937 TC3 .6179 BAU .1288
 RDE -.2521 RRA -.1459 RC3 .1423 FAU .06541
 FDE 2.1375 FRA 2.7833 FC3-3.7282 BSP .8446
 BDE .8185 BRA 1.3019 BC3 .6340 FSP -1628

MID-COURSE EXECUTION ACCURACY

SGT 2487.5 SGR 456.8 SG3 545.2
 RRT .8813 RRF -.9067 RTF -.9550
 SGB 2529.1 R23 -.1245 R13 -.9568
 SG1 2520.1 SG2 213.1 THA 9.26

ORBIT DETERMINATION ACCURACY

ST 1314.9 SR 377.7 SS 1573.9
 CRT .9493 CRS .9752 CST .9952
 LSA 2080.7 MSA 137.9 SSA 12.8
 EL1 1363.3 EL2 114.5 ALF 15.36

LAUNCH DATE DEC 17 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 360.280

RL 147.21 LAL .00 LOL 85.12 VL 27.426 GAL 4.14 AZL 87.71 HCA 154.11 SMA 126.29 ECC .18036 INC 2.2944 V1 30.265
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.375 GAP -6.50 AZP 92.06 TAL 160.53 TAP 314.64 RCA 103.51 APO 149.06 V2 34.948
 RC 55.282 GL 16.82 GP 8.76 ZAL 55.78 ZAP 27.41 ETS 345.21 ZAE 157.62 ETE 10.54 ZAC 123.31 ETC 158.99 CLP -26.08

PLANETOCENTRIC CONIC

C3 14.329 VHL 3.785 CLA 27.53 RAL 22.45 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 5.018 DPA 18.48 RAP 28.30 ECC 1.2358
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 7 41 3268.68 -25.08 115.52 246.87 76.40 3 2 9 2668.7 -26.70 107.23
 90.00 0 10 24 3650.75 -16.71 140.35 243.89 66.80 1 11 14 3050.8 -19.71 132.95
 100.00 4 9 55 2874.62 -28.34 87.28 247.63 80.08 4 57 50 2274.6 -29.42 78.64
 100.00 0 50 50 3520.05 -13.69 129.29 242.43 63.16 1 49 30 2920.0 -17.18 122.24
 110.00 6 17 42 2474.72 -34.03 57.69 248.41 86.59 6 58 57 1874.7 -34.13 48.45
 110.00 0 59 32 3492.72 -8.73 124.31 239.51 56.82 1 57 45 2892.7 -13.03 117.86

DIFFERENTIAL CORRECTIONS

TDE -.7500 TRA-1.2501 TC3 .6814 BAU .1368
 RDE -.2592 RRA -.1815 RC3 .2140 FAU .07184
 FDE 2.2804 FRA 3.0102 FC3-4.3403 BSP .8498
 BDE .7936 BRA 1.2632 BC3 .7142 FSP -1820

MID-COURSE EXECUTION ACCURACY

SGT 2471.4 SGR 525.6 SG3 605.5
 RRT .9163 RRF -.9445 RTF -.9571
 SGB 2526.7 R23 -.1531 R13 -.9597
 SG1 2518.2 SG2 206.6 THA 11.10

ORBIT DETERMINATION ACCURACY

ST 1303.4 SR 403.3 SS 1639.5
 CRT .9608 CRS .9824 CST .9955
 LSA 2129.0 MSA 129.9 SSA 12.1
 EL1 1360.1 EL2 107.1 ALF 16.66

LAUNCH DATE DEC 17 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 366.875

RL 147.21 LAL .00 LOL 85.12 VL 27.479 GAL 3.99 AZL 87.88 HCA 157.30 SMA 126.64 ECC .17637 INC 2.1245 V1 30.265
 RP 108.47 LAP .82 LOP 242.44 VP 37.403 GAP -5.95 AZP 91.96 TAL 160.74 TAP 318.04 RCA 104.30 APO 148.97 V2 34.936
 RC 57.109 GL 16.04 GP 10.48 ZAL 55.91 ZAP 30.52 ETS 344.22 ZAE 157.15 ETE 15.66 ZAC 123.00 ETC 157.80 CLP -28.83

PLANETOCENTRIC CONIC

C3 13.522 VHL 3.677 CLA 26.70 RAL 22.48 RAD 6567.5 VEL 11.615 PTH 2.04 VHP 4.759 DPA 20.23 RAP 28.00 ECC 1.2225
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 32 59 3172.55 -26.45 108.81 246.10 79.49 3 25 52 2572.5 -27.63 100.34
 90.00 23 41 25 3721.42 -14.77 144.62 242.18 65.56 24 43 26 3121.4 -17.94 137.39
 100.00 4 26 0 2808.19 -29.03 82.46 246.56 82.53 5 12 49 2208.2 -29.76 73.73
 100.00 0 35 0 3561.02 -12.42 131.67 241.01 62.59 1 34 21 2961.0 -15.99 124.70
 110.00 6 27 9 2429.10 -34.16 54.14 247.03 88.69 7 7 39 1829.1 -33.97 44.90
 110.00 0 50 21 3512.86 -7.97 125.38 238.36 56.65 1 48 53 2912.9 -12.31 118.96

DIFFERENTIAL CORRECTIONS

TDE -.7062 TRA-1.1991 TC3 .7547 BAU .1477
 RDE -.2713 RRA -.2271 RC3 .3137 FAU .07927
 FDE 2.3959 FRA 3.2550 FC3-5.0755 BSP .8651
 BDE .7565 BRA 1.2204 BC3 .8172 FSP -2050

MID-COURSE EXECUTION ACCURACY

SGT 2427.4 SGR 623.6 SG3 669.8
 RRT .9392 RRF -.9698 RTF -.9593
 SGB 2506.3 R23 -.1810 R13 -.9631
 SG1 2497.6 SG2 208.1 THA 13.66

ORBIT DETERMINATION ACCURACY

ST 1266.8 SR 439.2 SS 1687.8
 CRT .9704 CRS .9881 CST .9958
 LSA 2152.1 MSA 121.6 SSA 11.3
 EL1 1337.0 EL2 100.6 ALF 18.70

LAUNCH DATE DEC 17 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 373.447

RL 147.21 LAL .00 LOL 85.12 VL 27.527 GAL 3.86 AZL 88.10 MCA 160.49 SMA 126.96 ECC .17277 INC 1.9024 V1 30.265
 RP 108.51 LAP .64 LOP 245.62 VP 37.427 GAP -5.42 AZP 91.79 TAL 160.94 TAP 321.43 RCA 105.02 APO 148.89 V2 34.923
 RC 59.010 GL 14.79 GP 12.79 ZAL 55.95 ZAP 33.99 ETS 342.87 ZAE 156.62 ETE 22.08 ZAC 122.23 ETC 156.37 CLP -31.77

PLANETOCENTRIC CONIC

C3 12.751 VML 3.571 OLA 25.44 RAL 22.73 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 4.525 DPA 22.45 RAP 27.25 ECC 1.2099
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 1 51 3065.79 -27.54 101.19 245.28 83.16 3 52 57 2465.8 -28.21 92.59
 90.00 23 14 30 3802.82 -12.42 149.45 240.60 64.35 24 17 53 3202.8 -15.77 142.38
 100.00 4 47 42 2724.53 -29.61 76.31 245.51 85.71 5 33 7 2124.5 -29.89 67.52
 100.00 0 15 16 3619.32 -10.57 135.01 239.64 61.87 1 15 35 3019.3 -14.25 128.15
 110.00 6 41 22 2368.90 -34.16 49.44 245.64 91.47 7 20 51 1768.9 -33.57 40.24
 110.00 0 38 5 3547.72 -6.66 127.23 237.29 56.39 1 37 13 2947.7 -11.04 120.87

DIFFERENTIAL CORRECTIONS

TDE -.6394 TRA-1.1340 TC3 .8567 BAU .1657
 RDE -.2876 RRA -.2868 RC3 .4597 FAU .08817
 FDE 2.4448 FRA 3.5007 FC3-5.9860 BSP 9081
 BDE .7011 BRA 1.1697 BC3 .9722 FSP -2345

MID-COURSE EXECUTION ACCURACY

SGT 2342.4 SGR 761.8 SG3 734.9
 RRT .9533 RRF -.9851 RTF -.9623
 SGB 2463.1 R23 -.1972 R13 -.9682
 SG1 2453.3 SG2 219.8 TMA 17.37

ORBIT DETERMINATION ACCURACY

ST 1190.9 SR 486.2 SS 1699.2
 CRT .9775 CRS .9923 CST .9960
 LSA 2128.2 MSA 112.8 SSA 10.4
 EL1 1282.8 EL2 95.2 ALF 21.88

LAUNCH DATE DEC 17 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 380.006

RL 147.21 LAL .00 LOL 85.12 VL 27.570 GAL 3.74 AZL 88.40 MCA 163.67 SMA 127.25 ECC .16957 INC 1.5978 V1 30.265
 RP 108.55 LAP .45 LOP 248.80 VP 37.447 GAP -4.91 AZP 91.53 TAL 161.13 TAP 324.80 RCA 105.67 APO 148.83 V2 34.911
 RC 60.978 GL 12.79 GP 15.98 ZAL 55.85 ZAP 37.95 ETS 341.02 ZAE 155.68 ETE 30.23 ZAC 120.83 ETC 154.63 CLP -34.89

PLANETOCENTRIC CONIC

C3 12.010 VML 3.466 OLA 23.50 RAL 23.31 RAD 6567.5 VEL 11.550 PTH 2.02 VHP 4.329 DPA 25.39 RAP 25.90 ECC 1.1977
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 57 2939.70 -28.23 92.04 244.39 87.70 4 25 56 2359.7 -28.25 83.37
 90.00 22 44 6 3903.46 -9.38 155.29 239.24 63.16 23 49 10 3303.5 -12.91 148.38
 100.00 5 16 50 2617.61 -29.89 68.38 244.43 89.87 6 0 28 2017.6 -29.59 59.59
 100.00 23 46 54 3700.78 -7.92 139.61 238.45 61.08 24 48 34 3100.8 -11.71 132.88
 110.00 7 2 20 2287.58 -33.83 43.11 244.22 95.20 7 40 27 1687.6 -32.74 34.04
 110.00 0 21 50 3603.57 -4.55 130.17 236.39 56.08 1 21 53 3003.6 -8.97 123.88

DIFFERENTIAL CORRECTIONS

TDE -.6395 TRA-1.1463 TC3 .6802 BAU .1469
 RDE -.3285 RRA -.3920 RC3 .6120 FAU .08931
 FDE 2.5857 FRA 3.9452 FC3-6.4380 BSP 7556
 BDE .7189 BRA 1.2115 BC3 .9150 FSP -2297

MID-COURSE EXECUTION ACCURACY

SGT 2368.6 SGR 987.1 SG3 814.1
 RRT .9558 RRF -.9936 RTF -.9554
 SGB 2566.0 R23 -.2328 R13 -.9662
 SG1 2551.9 SG2 269.5 TMA 21.98

ORBIT DETERMINATION ACCURACY

ST 1225.6 SR 583.1 SS 1787.8
 CRT .9875 CRS .9959 CST .9976
 LSA 2242.7 MSA 93.6 SSA 11.5
 EL1 1354.7 EL2 83.2 ALF 25.27

LAUNCH DATE DEC 17 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 386.534

RL 147.21 LAL .00 LOL 85.12 VL 27.608 GAL 3.63 AZL 88.85 MCA 166.85 SMA 127.51 ECC .16672 INC 1.1498 V1 30.265
 RP 108.58 LAP .26 LOP 251.98 VP 37.465 GAP -4.41 AZP 91.12 TAL 161.30 TAP 328.15 RCA 106.25 APO 148.76 V2 34.900
 RC 63.000 GL 9.48 GP 20.61 ZAL 55.62 ZAP 42.65 ETS 338.53 ZAE 153.66 ETE 40.48 ZAC 118.47 ETC 152.46 CLP -38.20

PLANETOCENTRIC CONIC

C3 11.284 VML 3.359 OLA 20.34 RAL 24.41 RAD 6567.4 VEL 11.518 PTH 2.01 VHP 4.191 DPA 29.55 RAP 23.59 ECC 1.1857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 26 2778.88 -28.11 80.28 243.37 93.58 5 8 45 2178.9 -27.32 71.71
 90.00 22 7 23 4038.24 -5.16 162.94 238.25 62.12 23 14 41 3438.2 -8.85 156.20
 100.00 5 57 0 2473.93 -29.44 57.73 243.25 95.46 6 38 14 1873.9 -28.37 49.09
 100.00 23 15 30 3818.42 -3.99 146.14 237.61 60.35 24 19 9 3218.4 -7.91 139.54
 110.00 7 33 29 2172.08 -32.77 34.27 242.71 100.33 8 9 41 1572.1 -31.00 25.49
 110.00 23 55 31 3693.03 -1.14 134.85 235.83 55.83 24 57 4 3093.0 -5.61 128.62

DIFFERENTIAL CORRECTIONS

TDE -.5382 TRA-1.0725 TC3 .7631 BAU .1801
 RDE -.3555 RRA -.5264 RC3 .9185 FAU .09682
 FDE 2.3820 FRA 4.1918 FC3-7.4279 BSP 8224
 BDE .6450 BRA 1.1947 BC3 1.1941 FSP -2566

MID-COURSE EXECUTION ACCURACY

SGT 2216.4 SGR 1290.4 SG3 862.1
 RRT .9584 RRF -.9976 RTF -.9571
 SGB 2564.7 R23 -.2119 R13 -.9748
 SG1 2544.5 SG2 320.7 TMA 29.68

ORBIT DETERMINATION ACCURACY

ST 1088.9 SR 671.1 SS 1689.0
 CRT .9921 CRS .9975 CST .9983
 LSA 2117.3 MSA 75.3 SSA 11.6
 EL1 1277.1 EL2 71.8 ALF 31.56

LAUNCH DATE DEC 17 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 393.041

RL 147.21 LAL .00 LOL 85.12 VL 27.642 GAL 3.54 AZL 89.57 MCA 170.03 SMA 127.74 ECC .16421 INC .4257 V1 30.265
 RP 108.62 LAP .07 LOP 255.16 VP 37.479 GAP -3.92 AZP 90.42 TAL 161.45 TAP 331.48 RCA 106.76 APO 148.71 V2 34.889
 RC 65.076 GL 3.61 GP 27.72 ZAL 55.35 ZAP 48.59 ETS 335.14 ZAE 149.21 ETE 52.35 ZAC 114.53 ETC 149.73 CLP -41.65

PLANETOCENTRIC CONIC

C3 10.639 VML 3.262 OLA 14.79 RAL 26.46 RAD 6567.4 VEL 11.490 PTH 2.00 VHP 4.170 DPA 35.82 RAP 19.60 ECC 1.1751
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 58 2552.89 -26.08 64.08 242.40 101.44 6 9 31 1952.9 -24.24 55.90
 90.00 21 19 10 4240.08 1.33 174.22 238.28 61.71 22 29 50 3640.1 -2.46 167.59
 100.00 6 56 18 2264.83 -27.13 42.64 242.15 103.06 7 34 2 1664.8 -25.06 34.45
 100.00 22 32 32 4003.36 2.27 156.29 237.76 60.19 23 39 16 3403.4 -1.72 149.77
 110.00 8 22 21 1995.55 -29.86 21.34 241.30 107.46 8 55 37 1395.5 -27.19 13.18
 110.00 23 22 58 3845.41 4.68 142.81 236.26 56.10 24 27 3 3245.4 .19 136.60

DIFFERENTIAL CORRECTIONS

TDE -.4385 TRA-1.0190 TC3 .7505 BAU .2228
 RDE -.3735 RRA -.7544 RC3 1.3752 FAU .09794
 FDE 1.9193 FRA 4.3686 FC3-7.9697 BSP 8770
 BDE .5760 BRA 1.2679 BC3 1.5667 FSP -2641

MID-COURSE EXECUTION ACCURACY

SGT 2064.1 SGR 1764.6 SG3 870.0
 RRT .9560 RRF -.9992 RTF -.9544
 SGB 2715.6 R23 -.1746 R13 -.9839
 SG1 2686.3 SG2 397.8 TMA 40.33

ORBIT DETERMINATION ACCURACY

ST 949.8 SR 774.7 SS 1488.3
 CRT .9977 CRS .9985 CST .9997
 LSA 1927.5 MSA 42.2 SSA 16.9
 EL1 1225.0 EL2 40.6 ALF 39.19

LAUNCH DATE DEC 17 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.672 GAL 3.46 AZL 90.97 MCA 173.20 SMA 127.94 ECC .16203 INC .9637 V1 30.265
 RP 108.65 LAP -.11 LOP 258.33 VP 37.491 GAP -3.45 AZP 89.04 TAL 161.58 TAP 334.78 RCA 107.21 APO 148.67 V2 34.878
 RC 67.198 GL -8.26 GP 39.46 ZAL 55.91 ZAP 56.88 ETS 330.63 ZAE 139.74 ETE 64.07 ZAC 107.73 ETC 146.44 CLP -44.95

PLANETOCENTRIC CONIC

C3 10.530 VHL 3.245 DLA 3.60 RAL 30.46 RAD 6567.4 VEL 11.486 PTH 2.00 VHP 4.470 DPA 45.97 RAP 11.78 ECC 1.1733
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 13 16 2184.21 -18.82 39.57 242.99 111.56 7 49 40 1584.2 -15.73 32.26
 90.00 20 4 50 4604.59 12.71 194.96 241.91 64.48 21 21 34 4004.6 9.17 188.06
 100.00 8 36 17 1916.41 -19.67 19.50 242.62 112.97 9 8 14 1316.4 -16.39 12.25
 100.00 21 24 29 4347.63 13.53 175.64 241.50 63.09 22 36 57 3747.6 9.81 168.83
 110.00 9 48 24 1690.71 -21.93 1.25 241.50 116.90 10 16 34 1090.7 -18.14 354.16
 110.00 22 28 52 4146.08 15.71 159.10 240.25 59.24 23 37 58 3546.1 11.52 152.51

DIFFERENTIAL CORRECTIONS

TDE -.3272 TRA -.9818 TC3 .6532 BAU .2944
 RDE -.3120 RRA-1.1755 RC3 1.9864 FAU .08521
 FDE 1.0103 FRA 4.1709 FC3-7.0059 BSP 9965
 BOE .4522 BRA 1.5316 BC3 2.0910 FSP -2339

MID-COURSE EXECUTION ACCURACY

SGT 1879.0 SGR 2508.1 SG3 764.6
 RRT .9500 RRF -.9998 RTF -.9488
 SGB 3133.9 R23 -.1159 R13 -.9931
 SG1 3097.7 SG2 474.9 TMA 53.57

ORBIT DETERMINATION ACCURACY

ST 778.2 SR 833.3 SS 1099.2
 CRT .9931 CRS .9990 CST .9870
 LSA 1580.3 MSA 102.8 SSA 5.1
 EL1 1138.2 EL2 66.7 ALF 46.97

LAUNCH DATE DEC 17 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.698 GAL 3.40 AZL 94.77 MCA 176.36 SMA 128.11 ECC .16017 INC 4.7675 V1 30.265
 RP 108.68 LAP -.30 LOP 261.50 VP 37.501 GAP -2.99 AZP 85.24 TAL 161.66 TAP 338.03 RCA 107.59 APO 148.63 V2 34.867
 RC 69.360 GL -35.28 GP 59.94 ZAL 63.26 ZAP 69.61 ETS 324.84 ZAE 120.62 ETE 72.08 ZAC 95.78 ETC 142.90 CLP -45.93

PLANETOCENTRIC CONIC

C3 15.839 VHL 3.960 DLA -22.00 RAL 39.36 RAD 6567.6 VEL 11.714 PTH 2.06 VHP 6.127 DPA 62.38 RAP 350.13 ECC 1.2607
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 11 29 14 1394.17 5.16 353.98 258.27 117.88 11 52 28 794.2 8.85 347.25
 90.00 16 59 50 5570.13 28.26 260.00 264.61 91.81 18 32 40 4970.1 28.22 251.33
 100.00 12 34 56 1182.08 3.73 337.61 257.48 119.68 12 54 38 582.1 7.66 331.02
 100.00 18 36 49 5257.45 29.89 237.02 264.64 89.96 20 4 26 4657.4 29.57 228.23
 110.00 13 10 41 1070.04 .33 326.99 255.36 124.18 13 28 31 470.0 4.82 320.78
 110.00 20 17 33 4942.26 33.90 212.89 264.44 85.28 21 39 56 4342.3 32.87 203.80

DIFFERENTIAL CORRECTIONS

TDE -.2583 TRA-1.0555 TC3 .3375 BAU .3806
 RDE .0904 RRA-2.0942 RC3 1.7657 FAU .04482
 FDE -.1261 FRA 2.9597 FC3-2.4500 BSP 12245
 BOE .2737 BRA 2.3452 BC3 1.7976 FSP -1341

MID-COURSE EXECUTION ACCURACY

SGT 1701.8 SGR 3544.8 SG3 431.6
 RRT .9379 RRF -1.0000 RTF -.9396
 SGB 3932.2 R23 -.0586 R13 -.9983
 SG1 3895.3 SG2 537.2 TMA 65.26

ORBIT DETERMINATION ACCURACY

ST 616.5 SR 985.1 SS 736.8
 CRT .7106 CRS 1.0000 CST .7118
 LSA 1314.8 MSA 405.6 SSA .5
 EL1 1094.5 EL2 390.4 ALF 62.18

LAUNCH DATE DEC 17 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.720 GAL 3.39 AZL 137.07 MCA 179.33 SMA 128.27 ECC .15886 INC47.0628 V1 30.265
 RP 108.72 LAP -.49 LOP 264.67 VP 37.508 GAP -2.59 AZP 42.93 TAL 161.52 TAP 340.85 RCA 107.89 APO 148.64 V2 34.858
 RC 71.560 GL -60.31 GP 68.91 ZAL 85.60 ZAP 86.54 ETS 189.29 ZAE 74.41 ETE 303.92 ZAC 80.42 ETC 15.03 CLP 80.34

PLANETOCENTRIC CONIC

C3 544.043 VHL 23.325 DLA -51.55 RAL 37.38 RAD 6572.4 VEL 25.794 PTH 3.36 VHP 30.959 DPA 64.93 RAP 226.18 ECC 9.9536
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.94 9 48 37 2298.98 1.61 63.24 306.09 141.53 10 26 56 1699.0 7.86 58.64
 135.06 18 24 40 749.89 1.62 300.36 306.11 141.53 18 37 10 149.9 7.87 295.77
 44.94 9 48 37 2298.98 1.61 63.24 306.09 141.53 10 26 56 1699.0 7.86 58.64
 135.06 18 24 40 749.89 1.62 300.36 306.11 141.53 18 37 10 149.9 7.87 295.77
 44.94 9 48 37 2298.98 1.61 63.24 306.09 141.53 10 26 56 1699.0 7.86 58.64
 135.06 18 24 40 749.89 1.62 300.36 306.11 141.53 18 37 10 149.9 7.87 295.77

DIFFERENTIAL CORRECTIONS

TDE 4.1442 TRA-3.7114 TC3 -.1472 BAU 2.2993
 RDE -2.8194 RRA 9.4586 RC3 .2798 FAU-.04111
 FDE -.8568 FRA 2.1065 FC3 .0654 BSP 1488
 BOE 5.0124 BRA10.1607 BC3 .3161 FSP -14

MID-COURSE EXECUTION ACCURACY

SGT 1912.4 SGR 4017.9 SG3 78.7
 RRT -.9213 RRF .9981 RTF -.9435
 SGB 4449.8 R23 -.0079 R13 1.0000
 SG1 4397.6 SG2 679.4 TMA 114.29

ORBIT DETERMINATION ACCURACY

ST 1109.2 SR 1318.2 SS 873.7
 CRT -.8200 CRS -.9892 CST .8949
 LSA 1862.0 MSA 513.9 SSA .3
 EL1 1646.0 EL2 508.4 ALF 129.03

LAUNCH DATE DEC 17 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.739 GAL 3.29 AZL 76.05 MCA 182.80 SMA 128.40 ECC .15716 INC13.9523 V1 30.265
 RP 108.74 LAP -.67 LOP 267.84 VP 37.513 GAP -2.07 AZP 103.94 TAL 161.86 TAP 344.65 RCA 108.22 APO 148.57 V2 34.848
 RC 73.792 GL 60.30 GP -70.02 ZAL 76.91 ZAP 78.08 ETS 43.79 ZAE 107.26 ETE 295.59 ZAC 116.25 ETC 221.98 CLP -52.82

PLANETOCENTRIC CONIC

C3 59.109 VHL 7.688 DLA 60.67 RAL 339.33 RAD 6569.1 VEL 13.434 PTH 2.46 VHP 7.346 DPA -52.16 RAP 68.45 ECC 1.9728
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.81 17 24 26 4643.49 -23.11 228.55 235.46 32.18 18 41 50 4043.5 -29.81 224.07
 146.19 3 5 42 2968.04 -23.10 90.81 235.45 32.18 3 55 10 2368.0 -29.80 86.33
 33.81 17 24 26 4643.49 -23.11 228.55 235.46 32.18 18 41 50 4043.5 -29.81 224.07
 146.19 3 5 42 2968.04 -23.10 90.81 235.45 32.18 3 55 10 2368.0 -29.80 86.33
 33.81 17 24 26 4643.49 -23.11 228.55 235.46 32.18 18 41 50 4043.5 -29.81 224.07
 146.19 3 5 42 2968.04 -23.10 90.81 235.45 32.18 3 55 10 2368.0 -29.80 86.33

DIFFERENTIAL CORRECTIONS

TDE-2.4191 TRA -.4042 TC3 .0343 BAU .2152
 RDE 5.3238 RRA -.0452 RC3 -.2701 FAU .01725
 FDE 4.8674 FRA .0990 FC3 -.2526 BSP 12699
 BOE 5.8477 BRA .4067 BC3 .2723 FSP -943

MID-COURSE EXECUTION ACCURACY

SGT 1905.5 SGR 3989.8 SG3 315.5
 RRT -.9381 RRF .9983 RTF -.9562
 SGB 4421.5 R23 -.0060 R13 .9999
 SG1 4380.5 SG2 601.0 TMA 114.63

ORBIT DETERMINATION ACCURACY

ST 1812.3 SR 3967.6 SS 2302.3
 CRT -.9943 CRS -.9998 CST .9960
 LSA 4929.1 MSA 176.5 SSA 1.0
 EL1 4358.3 EL2 176.5 ALF 114.47

LAUNCH DATE DEC 17 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 425.313

RL 147.21 LAL .00 LOL 85.12 VL 27.754 GAL 3.27 AZL 81.69 MCA 185.94 SMA 128.50 ECC .15614 INC 8.3049 V1 30.265
 RP 108.77 LAP -.86 LOP 271.01 VP 37.516 GAP -1.64 AZP 98.26 TAL 161.83 TAP 347.77 RCA 108.44 APO 148.57 V2 34.839
 RC 76.053 GL 50.23 GP -49.24 ZAL 70.57 ZAP 73.37 ETS 23.85 ZAE 128.78 ETE 282.77 ZAC 121.20 ETC 198.80 CLP -64.00

PLANETOCENTRIC CONIC

C3 27.122 VHL 5.208 DLA 54.94 RAL 355.58 RAD 6568.1 VEL 12.186 PTH 2.19 VHP 4.295 DPA -36.75 RAP 47.90 ECC 1.4464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.73 18 47 35 4412.31 -31.78 213.03 239.82 42.51 20 1 7 3812.3 -37.50 206.64
 139.27 3 52 10 2808.99 -31.77 84.18 239.80 42.50 4 38 59 2209.0 -37.49 77.79
 40.73 18 47 35 4412.31 -31.78 213.03 239.82 42.51 20 1 7 3812.3 -37.50 206.64
 139.27 3 52 10 2808.99 -31.77 84.18 239.80 42.50 4 38 59 2209.0 -37.49 77.79
 40.73 18 47 35 4412.31 -31.78 213.03 239.82 42.51 20 1 7 3812.3 -37.50 206.64
 139.27 3 52 10 2808.99 -31.77 84.18 239.80 42.50 4 38 59 2209.0 -37.49 77.79

DIFFERENTIAL CORRECTIONS

TDE -.5452 TRA -.4343 TC3 .0098 BAU .3087
 RDE 2.9768 RRA .5237 RC3 -.8513 FAU .07602
 FDE 7.9349 FRA 1.5813 FC3-2.4265 BSP 11210
 BOE 3.0263 BRA .6804 BC3 .8514 FSP -2556

MID-COURSE EXECUTION ACCURACY

SGT 1025.6 SGR 3538.1 SG3 827.7
 RRT -.7738 RRF .9993 RTF -.7920
 SGB 3683.7 R23 -.0108 R13 .9997
 SG1 3628.9 SG2 633.5 THA 103.05

ORBIT DETERMINATION ACCURACY

ST 649.6 SR 3288.9 SS 3257.3
 CRT -.9545 CRS -.9999 CST .9580
 LSA 4670.5 MSA 190.4 SSA 2.0
 EL1 3347.1 EL2 190.3 ALF 100.71

LAUNCH DATE DEC 17 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 431.685

RL 147.21 LAL .00 LOL 85.12 VL 27.767 GAL 3.26 AZL 83.43 MCA 189.10 SMA 128.59 ECC .15536 INC 6.5682 V1 30.265
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.518 GAP -1.22 AZP 96.49 TAL 161.78 TAP 350.88 RCA 108.61 APO 148.57 V2 34.831
 RC 78.340 GL 44.51 GP -37.42 ZAL 67.54 ZAP 74.38 ETS 15.06 ZAE 141.15 ETE 277.13 ZAC 121.21 ETC 188.54 CLP -70.18

PLANETOCENTRIC CONIC

C3 20.463 VHL 4.524 DLA 50.73 RAL 2.12 RAD 6567.8 VEL 11.910 PTH 2.12 VHP 3.504 DPA -27.29 RAP 39.12 ECC 1.3368
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.97 19 29 18 4308.72 -33.02 203.23 240.04 49.01 20 41 6 3708.7 -38.03 195.98
 134.03 4 2 38 2775.00 -33.01 81.93 240.03 49.00 4 48 53 2175.0 -38.02 74.68
 45.97 19 29 18 4308.72 -33.02 203.23 240.04 49.01 20 41 6 3708.7 -38.03 195.98
 134.03 4 2 38 2775.00 -33.01 81.93 240.03 49.00 4 48 53 2175.0 -38.02 74.68
 45.97 19 29 18 4308.72 -33.02 203.23 240.04 49.01 20 41 6 3708.7 -38.03 195.98
 134.03 4 2 38 2775.00 -33.01 81.93 240.03 49.00 4 48 53 2175.0 -38.02 74.68

DIFFERENTIAL CORRECTIONS

TDE -.0835 TRA -.3364 TC3 -.1393 BAU .2796
 RDE 2.0068 RRA .5742 RC3-1.0126 FAU .12112
 FDE 9.3926 FRA 2.9577 FC3-5.1243 BSP 9398
 BOE 2.0086 BRA .6655 BC3 1.0221 FSP -3854

MID-COURSE EXECUTION ACCURACY

SGT 693.0 SGR 2936.1 SG3 1215.9
 RRT -.4555 RRF .9992 RTF -.4776
 SGB 3016.7 R23 .0019 R13 .9995
 SG1 2953.7 SG2 613.3 THA 96.41

ORBIT DETERMINATION ACCURACY

ST 228.0 SR 2565.3 SS 3641.6
 CRT -.5783 CRS -.9999 CST .5892
 LSA 4456.3 MSA 186.8 SSA 2.6
 EL1 2568.7 EL2 185.8 ALF 92.96

LAUNCH DATE DEC 17 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 438.042

RL 147.21 LAL .00 LOL 85.12 VL 27.777 GAL 3.26 AZL 84.28 MCA 192.27 SMA 128.66 ECC .15481 INC 5.7220 V1 30.265
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.518 GAP -.81 AZP 95.59 TAL 161.68 TAP 353.95 RCA 108.74 APO 148.58 V2 34.824
 RC 80.651 GL 40.99 GP -30.06 ZAL 65.78 ZAP 77.92 ETS 9.43 ZAE 148.81 ETE 269.73 ZAC 119.36 ETC 182.31 CLP -76.01

PLANETOCENTRIC CONIC

C3 17.769 VHL 4.215 DLA 47.99 RAL 5.55 RAD 6567.7 VEL 11.796 PTH 2.09 VHP 3.165 DPA -21.66 RAP 33.39 ECC 1.2924
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.49 19 54 33 4247.66 -32.92 197.01 239.89 52.87 21 5 21 3647.7 -37.49 189.39
 130.51 4 4 45 2769.46 -32.90 81.27 239.88 52.86 4 50 54 2169.5 -37.48 73.65
 49.49 19 54 33 4247.66 -32.92 197.01 239.89 52.87 21 5 21 3647.7 -37.49 189.39
 130.51 4 4 45 2769.46 -32.90 81.27 239.88 52.86 4 50 54 2169.5 -37.48 73.65
 49.49 19 54 33 4247.66 -32.92 197.01 239.89 52.87 21 5 21 3647.7 -37.49 189.39
 130.51 4 4 45 2769.46 -32.90 81.27 239.88 52.86 4 50 54 2169.5 -37.48 73.65

DIFFERENTIAL CORRECTIONS

TDE .2158 TRA -.2171 TC3 -.3566 BAU .2507
 RDE 1.5194 RRA .5481 RC3 -.9930 FAU .14964
 FDE 10.0789 FRA 4.0306 FC3-7.2905 BSP 7767
 BOE 1.5347 BRA .5895 BC3 1.0551 FSP -4666

MID-COURSE EXECUTION ACCURACY

SGT 609.0 SGR 2491.0 SG3 1477.6
 RRT .2417 RRF .9988 RTF .2167
 SGB 2564.4 R23 .0403 R13 .9983
 SG1 2495.6 SG2 589.9 THA 86.42

ORBIT DETERMINATION ACCURACY

ST 321.9 SR 2092.2 SS 3805.6
 CRT .8342 CRS -.9999 CST -.8247
 LSA 4350.9 MSA 183.4 SSA 3.2
 EL1 2109.5 EL2 176.1 ALF 82.63

LAUNCH DATE DEC 17 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 444.378

RL 147.21 LAL .00 LOL 85.12 VL 27.784 GAL 3.28 AZL 84.78 MCA 195.44 SMA 128.71 ECC .15449 INC 5.2194 V1 30.265
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.517 GAP -.40 AZP 95.03 TAL 161.55 TAP 356.99 RCA 108.82 APO 148.59 V2 34.816
 RC 82.981 GL 38.60 GP -25.07 ZAL 64.57 ZAP 82.60 ETS 5.54 ZAE 153.53 ETE 259.66 ZAC 116.85 ETC 178.20 CLP -81.82

PLANETOCENTRIC CONIC

C3 16.358 VHL 4.045 DLA 46.10 RAL 7.74 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 2.987 DPA -18.15 RAP 28.86 ECC 1.2692
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.97 20 12 5 4206.57 -32.55 192.76 239.87 55.34 21 22 12 3606.6 -36.83 184.95
 128.03 4 4 44 2772.41 -32.53 81.24 239.86 55.33 4 50 57 2172.4 -36.82 73.43
 51.97 20 12 5 4206.57 -32.55 192.76 239.87 55.34 21 22 12 3606.6 -36.83 184.95
 128.03 4 4 44 2772.41 -32.53 81.24 239.86 55.33 4 50 57 2172.4 -36.82 73.43
 51.97 20 12 5 4206.57 -32.55 192.76 239.87 55.34 21 22 12 3606.6 -36.83 184.95
 128.03 4 4 44 2772.41 -32.53 81.24 239.86 55.33 4 50 57 2172.4 -36.82 73.43

DIFFERENTIAL CORRECTIONS

TDE .4691 TRA -.0839 TC3 -.6115 BAU .2430
 RDE 1.2210 RRA .5002 RC3 -.9275 FAU .16937
 FDE 10.3212 FRA 4.7845 FC3-8.9639 BSP 6773
 BOE 1.3080 BRA .5072 BC3 1.1110 FSP -5264

MID-COURSE EXECUTION ACCURACY

SGT 846.0 SGR 2144.6 SG3 1643.7
 RRT .7416 RRF .9981 RTF .7226
 SGB 2305.4 R23 .1017 R13 .9933
 SG1 2240.5 SG2 543.2 THA 72.64

ORBIT DETERMINATION ACCURACY

ST 666.7 SR 1756.8 SS 3849.3
 CRT .9682 CRS -.9997 CST -.9624
 LSA 4279.6 MSA 180.3 SSA 3.9
 EL1 1872.5 EL2 156.4 ALF 69.68

LAUNCH DATE DEC 17 1968

FLIGHT TIME 166.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.789 GAL 3.31 AZL 85.12 MCA 198.60 SMA 128.74 ECC .15439 INC 4.8846 V1 30.265
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.514 GAP -.00 AZP 94.63 TAL 161.38 TAP 359.98 RCA 108.86 APO 148.62 V2 34.810
 RC 85.328 GL 36.84 GP -21.42 ZAL 63.63 ZAP 87.79 ETS 2.71 ZAE 156.00 ETE 247.40 ZAC 114.10 ETC 175.32 CLP -87.63

PLANETOCENTRIC CONIC

C3 15.521 VHL 3.940 CLA 44.72 RAL 9.37 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 2.892 DPA -15.89 RAP 24.94 ECC 1.2554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.81 20 25 27 4176.83 -32.14 189.67 240.01 57.04 21 35 4 3576.8 -36.22 181.77
 126.19 4 4 20 2778.31 -32.13 81.46 240.00 57.03 4 50 38 2178.3 -36.21 73.56
 53.81 20 25 27 4176.83 -32.14 189.67 240.01 57.04 21 35 4 3576.8 -36.22 181.77
 126.19 4 4 20 2778.31 -32.13 81.46 240.00 57.03 4 50 38 2178.3 -36.21 73.56
 53.81 20 25 27 4176.83 -32.14 189.67 240.01 57.04 21 35 4 3576.8 -36.22 181.77
 126.19 4 4 20 2778.31 -32.13 81.46 240.00 57.03 4 50 38 2178.3 -36.21 73.56

DIFFERENTIAL CORRECTIONS

TOE .7003 TRA .0582 TC3 -.8876 BAU .2560
 ROE 1.0114 RRA .4447 RC3 -.8568 FAU .18490
 FOE10.2271 FRA 5.2439 FC-10.3135 BSP 6467
 BOE 1.2301 BRA .4485 BC3 1.2336 FSP -5794

MID-COURSE EXECUTION ACCURACY

SGT 1241.1 SGR 1856.8 SG3 1733.3
 RRT .9019 RRF .9969 RTF .8879
 SGB 2233.4 R23 .1575 R13 .9847
 SG1 2186.5 SG2 455.3 THA 57.32

ORBIT DETERMINATION ACCURACY

ST 1019.3 SR 1496.1 SS 3802.5
 CRT .9890 CRS -.9996 CST -.9842
 LSA 4207.8 MSA 176.4 SSA 4.6
 EL1 1806.0 EL2 125.1 ALF 55.84

LAUNCH DATE DEC 17 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.791 GAL 3.35 AZL 85.36 MCA 201.76 SMA 128.76 ECC .15451 INC 4.6442 V1 30.265
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.511 GAP .39 AZP 94.31 TAL 161.15 TAP 2.92 RCA 108.86 APO 148.65 V2 34.804
 RC 87.691 GL 35.45 GP -18.60 ZAL 62.81 ZAP 93.18 ETS .59 ZAE 156.60 ETE 234.55 ZAC 111.35 ETC 173.22 CLP -93.35

PLANETOCENTRIC CONIC

C3 14.999 VHL 3.873 CLA 43.67 RAL 10.71 RAD 6567.6 VEL 11.678 PTH 2.05 VHP 2.848 DPA -14.35 RAP 21.44 ECC 1.2469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.25 20 36 24 4154.36 -31.74 187.34 240.33 58.27 21 45 39 3554.4 -35.68 179.38
 124.75 4 4 5 2785.42 -31.73 81.81 240.32 58.26 4 50 30 2185.4 -35.67 73.85
 55.25 20 36 24 4154.36 -31.74 187.34 240.33 58.27 21 45 39 3554.4 -35.68 179.38
 124.75 4 4 5 2785.42 -31.73 81.81 240.32 58.26 4 50 30 2185.4 -35.67 73.85
 55.25 20 36 24 4154.36 -31.74 187.34 240.33 58.27 21 45 39 3554.4 -35.68 179.38
 124.75 4 4 5 2785.42 -31.73 81.81 240.32 58.26 4 50 30 2185.4 -35.67 73.85

DIFFERENTIAL CORRECTIONS

TOE .9183 TRA .2060 TC3 -1.1861 BAU .2807
 ROE .8677 RRA .4038 RC3 -.7436 FAU .18764
 FOE10.0749 FRA 5.6633 FC-10.8304 BSP 6485
 BOE 1.2634 BRA .4533 BC3 1.3999 FSP -5852

MID-COURSE EXECUTION ACCURACY

SGT 1693.2 SGR 1631.5 SG3 1784.7
 RRT .9488 RRF .9950 RTF .9388
 SGB 2351.3 R23 .1816 R13 .9784
 SG1 2321.1 SG2 376.0 THA 43.88

ORBIT DETERMINATION ACCURACY

ST 1364.7 SR 1307.5 SS 3766.6
 CRT .9952 CRS -.9993 CST -.9907
 LSA 4210.5 MSA 176.8 SSA 5.3
 EL1 1887.7 EL2 92.6 ALF 43.77

LAUNCH DATE DEC 17 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.791 GAL 3.40 AZL 85.54 MCA 204.93 SMA 128.76 ECC .15484 INC 4.4624 V1 30.265
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.506 GAP .78 AZP 94.05 TAL 160.89 TAP 5.81 RCA 108.82 APO 148.70 V2 34.799
 RC 90.065 GL 34.30 GP -16.32 ZAL 62.05 ZAP 98.58 ETS 358.97 ZAE 155.77 ETE 222.83 ZAC 108.70 ETC 171.64 CLP -98.94

PLANETOCENTRIC CONIC

C3 14.674 VHL 3.831 CLA 42.83 RAL 11.90 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 2.843 DPA -13.27 RAP 18.29 ECC 1.2415
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.42 20 45 53 4136.84 -31.37 185.51 240.80 59.20 21 54 50 3536.8 -35.19 177.51
 123.58 4 4 8 2793.15 -31.35 82.23 240.79 59.18 4 50 41 2193.2 -35.18 74.24
 56.42 20 45 53 4136.84 -31.37 185.51 240.80 59.20 21 54 50 3536.8 -35.19 177.51
 123.58 4 4 8 2793.15 -31.35 82.23 240.79 59.18 4 50 41 2193.2 -35.18 74.24
 56.42 20 45 53 4136.84 -31.37 185.51 240.80 59.20 21 54 50 3536.8 -35.19 177.51
 123.58 4 4 8 2793.15 -31.35 82.23 240.79 59.18 4 50 41 2193.2 -35.18 74.24

DIFFERENTIAL CORRECTIONS

TOE 1.1203 TRA .3568 TC3 -1.4808 BAU .3169
 ROE .7507 RRA .3586 RC3 -.6449 FAU .18874
 FOE 9.6945 FRA 5.8545 FC-11.1348 BSP 7120
 BOE 1.3486 BRA .5059 BC3 1.6151 FSP -5910

MID-COURSE EXECUTION ACCURACY

SGT 2150.4 SGR 1428.2 SG3 1782.4
 RRT .9684 RRF .9920 RTF .9617
 SGB 2581.5 R23 .1695 R13 .9774
 SG1 2564.1 SG2 298.8 THA 33.26

ORBIT DETERMINATION ACCURACY

ST 1690.1 SR 1144.2 SS 3669.3
 CRT .9980 CRS -.9988 CST -.9937
 LSA 4195.0 MSA 175.7 SSA 6.0
 EL1 2040.1 EL2 60.5 ALF 34.08

LAUNCH DATE DEC 17 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.790 GAL 3.47 AZL 85.68 MCA 208.09 SMA 128.75 ECC .15537 INC 4.3194 V1 30.265
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.501 GAP 1.16 AZP 93.81 TAL 160.57 TAP 8.66 RCA 108.74 APO 148.75 V2 34.795
 RC 92.449 GL 33.29 GP -14.43 ZAL 61.30 ZAP 103.87 ETS 357.72 ZAE 153.97 ETE 213.25 ZAC 106.26 ETC 170.45 CLP -104.33

PLANETOCENTRIC CONIC

C3 14.486 VHL 3.806 CLA 42.13 RAL 13.03 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 2.869 DPA -12.47 RAP 15.48 ECC 1.2384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.40 20 54 26 4122.96 -31.00 184.03 241.41 59.91 22 3 9 3523.0 -34.74 176.02
 122.60 4 4 35 2801.31 -30.99 82.70 241.40 59.90 4 51 16 2201.3 -34.73 74.70
 57.40 20 54 26 4122.96 -31.00 184.03 241.41 59.91 22 3 9 3523.0 -34.74 176.02
 122.60 4 4 35 2801.31 -30.99 82.70 241.40 59.90 4 51 16 2201.3 -34.73 74.70
 57.40 20 54 26 4122.96 -31.00 184.03 241.41 59.91 22 3 9 3523.0 -34.74 176.02
 122.60 4 4 35 2801.31 -30.99 82.70 241.40 59.90 4 51 16 2201.3 -34.73 74.70

DIFFERENTIAL CORRECTIONS

TOE 1.3057 TRA .5077 TC3 -1.7682 BAU .3585
 ROE .6566 RRA .3161 RC3 -.5485 FAU .18596
 FOE 9.1947 FRA 5.9156 FC-11.1134 BSP 8080
 BOE 1.4615 BRA .5980 BC3 1.8513 FSP -5855

MID-COURSE EXECUTION ACCURACY

SGT 2595.5 SGR 1250.2 SG3 1743.8
 RRT .9757 RRF .9875 RTF .9729
 SGB 2880.9 R23 .1347 R13 .9793
 SG1 2870.2 SG2 247.9 THA 25.37

ORBIT DETERMINATION ACCURACY

ST 1990.1 SR 1007.0 SS 3545.4
 CRT .9993 CRS -.9980 CST -.9951
 LSA 4185.0 MSA 175.1 SSA 6.6
 EL1 2230.1 EL2 33.4 ALF 26.83

LAUNCH DATE DEC 17 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 475.756

RL 147.21 LAL .00 LOL 85.12 VL 27.786 GAL 3.54 AZL 85.80 MCA 211.25 SMA 128.72 ECC .15611 INC 4.2032 V1 30.265
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.495 GAP 1.54 AZP 93.59 TAL 160.21 TAP 11.47 RCA 108.63 APO 148.82 V2 34.791
 RC 94.840 GL 32.38 GP -12.83 ZAL 60.55 ZAP 108.95 ETS 356.75 ZAE 151.65 ETE 205.84 ZAC 104.07 ETC 169.54 CLP-109.45

PLANETOCENTRIC CONIC

C3 14.403 VML 3.795 DLA 41.53 RAL 14.14 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 2.920 OPA -11.83 RAP 13.02 ECC 1.2370
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.25 21 2 28 4111.75 -30.65 182.82 242.16 60.47 22 10 59 3511.7 -34.32 174.81
 121.75 4 5 22 2809.98 -30.64 83.22 242.16 60.46 4 52 12 2210.0 -34.31 75.21
 58.25 21 2 28 4111.75 -30.65 182.82 242.16 60.47 22 10 59 3511.7 -34.32 174.81
 121.75 4 5 22 2809.98 -30.64 83.22 242.16 60.46 4 52 12 2210.0 -34.31 75.21
 58.25 21 2 28 4111.75 -30.65 182.82 242.16 60.47 22 10 59 3511.7 -34.32 174.81
 121.75 4 5 22 2809.98 -30.64 83.22 242.16 60.46 4 52 12 2210.0 -34.31 75.21

DIFFERENTIAL CORRECTIONS

TOE 1.4757 TRA .6592 TC3-2.0352 BAU .4015
 ROE .5808 RRA .2772 RC3 -.4540 FAU .17930
 FDE 8.6314 FRA 5.8878 FC-10.7770 BSP 9164
 BOE 1.5859 BRA .7151 BC3 2.0852 FSP -5674

MID-COURSE EXECUTION ACCURACY

SGT 3019.5 SGR 1095.5 SG3 1679.2
 RRT .9762 RRF .9808 RTF .9791
 SGB 3212.1 R23 .0914 R13 .9816
 SG1 3204.3 SG2 224.0 THA 19.60

ORBIT DETERMINATION ACCURACY

ST 2263.8 SR 892.8 SS 3408.9
 CRT .9999 CRS -.9970 CST -.9960
 LSA 4184.7 MSA 174.7 SSA 7.3
 EL1 2433.5 EL2 12.3 ALF 21.52

LAUNCH DATE DEC 17 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 481.971

RL 147.21 LAL .00 LOL 85.12 VL 27.781 GAL 3.64 AZL 85.89 MCA 214.41 SMA 128.69 ECC .15703 INC 4.1064 V1 30.265
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.488 GAP 1.92 AZP 93.39 TAL 159.81 TAP 14.22 RCA 108.48 APO 148.89 V2 34.788
 RC 97.236 GL 31.54 GP -11.46 ZAL 59.78 ZAP 113.77 ETS 356.01 ZAE 149.09 ETE 200.25 ZAC 102.19 ETC 168.85 CLP-114.29

PLANETOCENTRIC CONIC

C3 14.406 VML 3.796 DLA 41.01 RAL 15.24 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 2.994 OPA -11.28 RAP 10.92 ECC 1.2371
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.00 21 10 10 4102.70 -30.30 181.81 243.04 60.92 22 18 32 3502.7 -33.92 173.80
 121.00 4 6 30 2819.10 -30.28 83.78 243.04 60.91 4 53 29 2219.1 -33.90 75.77
 59.00 21 10 10 4102.70 -30.30 181.81 243.04 60.92 22 18 32 3502.7 -33.92 173.80
 121.00 4 6 30 2819.10 -30.28 83.78 243.04 60.91 4 53 29 2219.1 -33.90 75.77
 59.00 21 10 10 4102.70 -30.30 181.81 243.04 60.92 22 18 32 3502.7 -33.92 173.80
 121.00 4 6 30 2819.10 -30.28 83.78 243.04 60.91 4 53 29 2219.1 -33.90 75.77

DIFFERENTIAL CORRECTIONS

TOE 1.6283 TRA .8084 TC3-2.2801 BAU .4448
 ROE .5188 RRA .2411 RC3 -.3679 FAU .17085
 FDE 8.0195 FRA 5.7744 FC-10.2674 BSP 10321
 BOE 1.7089 BRA .8436 BC3 2.3096 FSP -5447

MID-COURSE EXECUTION ACCURACY

SGT 3413.6 SGR 961.1 SG3 1594.9
 RRT .9717 RRF .9710 RTF .9828
 SGB 3546.3 R23 .0512 R13 .9838
 SG1 3539.5 SG2 219.0 THA 15.36

ORBIT DETERMINATION ACCURACY

ST 2505.9 SR 796.4 SS 3257.8
 CRT .9999 CRS -.9954 CST -.9965
 LSA 4182.9 MSA 174.2 SSA 7.9
 EL1 2629.4 EL2 12.1 ALF 17.63

LAUNCH DATE DEC 17 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 488.164

RL 147.21 LAL .00 LOL 85.12 VL 27.774 GAL 3.74 AZL 85.98 MCA 217.58 SMA 128.64 ECC .15816 INC 4.0240 V1 30.265
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.481 GAP 2.29 AZP 93.19 TAL 159.36 TAP 16.94 RCA 108.29 APO 148.98 V2 34.786
 RC 99.636 GL 30.73 GP -10.28 ZAL 58.97 ZAP 118.31 ETS 355.44 ZAE 146.50 ETE 196.03 ZAC 100.63 ETC 168.34 CLP-118.81

PLANETOCENTRIC CONIC

C3 14.483 VML 3.806 DLA 40.54 RAL 16.37 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.087 OPA -10.77 RAP 9.17 ECC 1.2383
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.69 21 17 43 4095.36 -29.94 180.95 244.05 61.29 22 25 58 3495.4 -33.52 172.95
 120.31 4 7 57 2828.79 -29.93 84.38 244.04 61.27 4 55 5 2228.8 -33.51 76.38
 59.69 21 17 43 4095.36 -29.94 180.95 244.05 61.29 22 25 58 3495.4 -33.52 172.95
 120.31 4 7 57 2828.79 -29.93 84.38 244.04 61.27 4 55 5 2228.8 -33.51 76.38
 59.69 21 17 43 4095.36 -29.94 180.95 244.05 61.29 22 25 58 3495.4 -33.52 172.95
 120.31 4 7 57 2828.79 -29.93 84.38 244.04 61.27 4 55 5 2228.8 -33.51 76.38

DIFFERENTIAL CORRECTIONS

TOE 1.7652 TRA .9563 TC3-2.4961 BAU .4865
 ROE .4689 RRA .2085 RC3 -.2893 FAU .16079
 FDE 7.4017 FRA 5.6126 FC3-9.6115 BSP 11455
 BOE 1.8264 BRA .8436 BC3 2.5128 FSP -5168

MID-COURSE EXECUTION ACCURACY

SGT 3776.4 SGR 847.0 SG3 1499.8
 RRT .9619 RRF .9569 RTF .9851
 SGB 3870.2 R23 .0216 R13 .9855
 SG1 3863.6 SG2 226.2 THA 12.22

ORBIT DETERMINATION ACCURACY

ST 2718.3 SR 716.8 SS 3102.9
 CRT .9992 CRS -.9931 CST -.9968
 LSA 4183.4 MSA 173.8 SSA 8.5
 EL1 2811.1 EL2 26.9 ALF 14.76

LAUNCH DATE DEC 17 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 494.337

RL 147.21 LAL .00 LOL 85.12 VL 27.766 GAL 3.86 AZL 86.05 MCA 220.74 SMA 128.58 ECC .15948 INC 3.9527 V1 30.265
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.473 GAP 2.66 AZP 93.00 TAL 158.87 TAP 19.61 RCA 108.07 APO 149.09 V2 34.784
 RC 102.038 GL 29.95 GP -9.27 ZAL 58.13 ZAP 122.54 ETS 355.01 ZAE 144.00 ETE 192.82 ZAC 99.39 ETC 167.96 CLP-123.03

PLANETOCENTRIC CONIC

C3 14.627 VML 3.825 DLA 40.10 RAL 17.53 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 3.197 OPA -10.29 RAP 7.78 ECC 1.2407
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.33 21 25 13 4089.44 -29.58 180.22 245.18 61.58 22 33 23 3489.4 -33.12 172.23
 119.67 4 9 40 2839.12 -29.56 85.03 245.17 61.57 4 56 59 2239.1 -33.11 77.05
 60.33 21 25 13 4089.44 -29.58 180.22 245.18 61.58 22 33 23 3489.4 -33.12 172.23
 119.67 4 9 40 2839.12 -29.56 85.03 245.17 61.57 4 56 59 2239.1 -33.11 77.05
 60.33 21 25 13 4089.44 -29.58 180.22 245.18 61.58 22 33 23 3489.4 -33.12 172.23
 119.67 4 9 40 2839.12 -29.56 85.03 245.17 61.57 4 56 59 2239.1 -33.11 77.05

DIFFERENTIAL CORRECTIONS

TOE 1.8872 TRA 1.1032 TC3-2.6815 BAU .5261
 ROE .4293 RRA .1794 RC3 -.2194 FAU .14985
 FDE 6.7976 FRA 5.4205 FC3-8.8689 BSP 12542
 BOE 1.9354 BRA 1.1177 BC3 2.6905 FSP -4862

MID-COURSE EXECUTION ACCURACY

SGT 4107.2 SGR 751.8 SG3 1399.7
 RRT .9462 RRF .9375 RTF .9866
 SGB 4175.5 R23 .0025 R13 .9867
 SG1 4168.6 SG2 239.7 THA 9.86

ORBIT DETERMINATION ACCURACY

ST 2901.3 SR 651.7 SS 2947.5
 CRT .9979 CRS -.9901 CST -.9970
 LSA 4183.3 MSA 173.6 SSA 9.0
 EL1 2973.3 EL2 40.9 ALF 12.64

LAUNCH DATE DEC 17 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC
 RL 147.21 LAL .00 LOL 85.12 VL 27.756 GAL 4.00 AZL 86.11 MCA 223.90 SMA 128.51 ECC .16100 INC 3.8899 V1 30.265
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.465 GAP 3.03 AZP 92.81 TAL 158.33 TAP 22.23 RCA 107.82 APO 149.21 V2 34.783
 RC 104.441 GL 29.19 GP -8.38 ZAL 57.26 ZAP 126.48 ETS 354.68 ZAE 141.64 ETE 190.35 ZAC 98.46 ETC 167.69 CLP-126.94

PLANETOCENTRIC CONIC
 C3 14.836 VHL 3.852 CLA 39.69 RAL 18.72 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 3.321 DPA -9.79 RAP 6.72 ECC 1.2442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.94 21 32 47 4084.70 -29.20 179.58 246.42 61.82 22 40 51 3484.7 -32.71 171.62
 119.06 4 11 38 2850.18 -29.19 85.73 246.41 61.81 4 59 8 2250.2 -32.70 77.77
 60.94 21 32 47 4084.70 -29.20 179.58 246.42 61.82 22 40 51 3484.7 -32.71 171.62
 119.06 4 11 38 2850.18 -29.19 85.73 246.41 61.81 4 59 8 2250.2 -32.70 77.77
 60.94 21 32 47 4084.70 -29.20 179.58 246.42 61.82 22 40 51 3484.7 -32.71 171.62
 119.06 4 11 38 2850.18 -29.19 85.73 246.41 61.81 4 59 8 2250.2 -32.70 77.77

MID-COURSE EXECUTION ACCURACY
 SGT 4409.7 SGR 674.9 SG3 1300.2
 RRT .9237 RRF .9120 RTF .9875
 SGB 4461.1 R23 -.0085 R13 .9875
 SG1 4453.7 SG2 256.0 TMA 8.07

ORBIT DETERMINATION ACCURACY
 ST 3060.3 SR 599.9 SS 2799.4
 CRT .9958 CRS -.9861 CST -.9971
 LSA 4187.1 MSA 173.8 SSA 9.6
 EL1 3118.0 EL2 53.7 ALF 11.05

DIFFERENTIAL CORRECTIONS
 TOE 1.9980 TRA 1.2522 TC3-2.8300 BAU .5622
 RDE .3988 RRA .1542 RC3 -.1573 FAU .13812
 FDE 6.2325 FRA 5.2235 FC3-8.0599 BSP 13511
 BOE 2.0374 BRA 1.2616 BC3 2.8344 FSP -4521

LAUNCH DATE DEC 17 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC
 RL 147.21 LAL .00 LOL 85.12 VL 27.745 GAL 4.15 AZL 86.17 MCA 227.06 SMA 128.44 ECC .16272 INC 3.8340 V1 30.265
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.457 GAP 3.41 AZP 92.61 TAL 157.76 TAP 24.82 RCA 107.54 APO 149.34 V2 34.783
 RC 106.844 GL 28.43 GP -7.61 ZAL 56.34 ZAP 130.13 ETS 354.44 ZAE 139.46 ETE 188.43 ZAC 97.84 ETC 167.50 CLP-130.56

PLANETOCENTRIC CONIC
 C3 15.108 VHL 3.887 CLA 39.30 RAL 19.95 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 3.459 DPA -9.28 RAP 5.97 ECC 1.2486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.53 21 40 25 4080.98 -28.80 179.03 247.76 62.02 22 48 26 3481.0 -32.30 171.09
 118.47 4 13 48 2862.02 -28.79 86.49 247.76 62.01 5 1 30 2262.0 -32.29 78.55
 61.53 21 40 25 4080.98 -28.80 179.03 247.76 62.02 22 48 26 3481.0 -32.30 171.09
 118.47 4 13 48 2862.02 -28.79 86.49 247.76 62.01 5 1 30 2262.0 -32.29 78.55
 61.53 21 40 25 4080.98 -28.80 179.03 247.76 62.02 22 48 26 3481.0 -32.30 171.09
 118.47 4 13 48 2862.02 -28.79 86.49 247.76 62.01 5 1 30 2262.0 -32.29 78.55

MID-COURSE EXECUTION ACCURACY
 SGT 4680.3 SGR 612.9 SG3 1201.9
 RRT .8941 RRF .8797 RTF .9882
 SGB 4720.2 R23 -.0154 R13 .9881
 SG1 4712.4 SG2 272.6 TMA 6.70

ORBIT DETERMINATION ACCURACY
 ST 3190.4 SR 558.3 SS 2651.0
 CRT .9929 CRS -.9812 CST -.9972
 LSA 4181.8 MSA 174.0 SSA 10.1
 EL1 3238.2 EL2 65.6 ALF 9.86

DIFFERENTIAL CORRECTIONS
 TOE 2.0947 TRA 1.3992 TC3-2.9520 BAU .5966
 RDE .3753 RRA .1316 RC3 -.1056 FAU .12707
 FDE 5.6939 FRA 5.0086 FC3-7.2814 BSP 14452
 BOE 2.1281 BRA 1.4054 BC3 2.9539 FSP -4208

LAUNCH DATE DEC 17 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC
 RL 147.21 LAL .00 LOL 85.12 VL 27.733 GAL 4.31 AZL 86.22 MCA 230.22 SMA 128.35 ECC .16465 INC 3.7836 V1 30.265
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.449 GAP 3.78 AZP 92.42 TAL 157.15 TAP 27.37 RCA 107.22 APO 149.49 V2 34.784
 RC 109.246 GL 27.67 GP -6.94 ZAL 55.38 ZAP 133.51 ETS 354.26 ZAE 137.46 ETE 186.92 ZAC 97.50 ETC 167.38 CLP-133.91

PLANETOCENTRIC CONIC
 C3 15.444 VHL 3.930 CLA 38.92 RAL 21.22 RAD 6567.6 VEL 11.697 PTH 2.06 VHP 3.609 DPA -8.75 RAP 5.51 ECC 1.2542
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.10 21 48 14 4078.02 -28.39 178.54 249.21 62.18 22 56 12 3478.0 -31.87 170.62
 117.90 4 16 5 2874.86 -28.38 87.31 249.21 62.16 5 4 0 2274.9 -31.86 79.40
 62.10 21 48 14 4078.02 -28.39 178.54 249.21 62.18 22 56 12 3478.0 -31.87 170.62
 117.90 4 16 5 2874.86 -28.38 87.31 249.21 62.16 5 4 0 2274.9 -31.86 79.40
 62.10 21 48 14 4078.02 -28.39 178.54 249.21 62.18 22 56 12 3478.0 -31.87 170.62
 117.90 4 16 5 2874.86 -28.38 87.31 249.21 62.16 5 4 0 2274.9 -31.86 79.40

MID-COURSE EXECUTION ACCURACY
 SGT 4924.3 SGR 565.0 SG3 1108.4
 RRT .8578 RRF .8412 RTF .9885
 SGB 4956.6 R23 -.0190 R13 .9884
 SG1 4948.2 SG2 289.0 TMA 5.64

ORBIT DETERMINATION ACCURACY
 ST 3297.3 SR 526.0 SS 2508.9
 CRT .9890 CRS -.9754 CST -.9972
 LSA 4172.8 MSA 174.6 SSA 10.6
 EL1 3338.1 EL2 76.8 ALF 8.97

DIFFERENTIAL CORRECTIONS
 TOE 2.1808 TRA 1.5483 TC3-3.0433 BAU .6285
 RDE .3582 RRA .1121 RC3 -.0621 FAU .11635
 FDE 5.1980 FRA 4.7986 FC3-6.5224 BSP 15321
 BOE 2.2100 BRA 1.5524 BC3 3.0440 FSP -3904

LAUNCH DATE DEC 17 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC
 RL 147.21 LAL .00 LOL 85.12 VL 27.719 GAL 4.49 AZL 86.26 MCA 233.38 SMA 128.26 ECC .16678 INC 3.7376 V1 30.265
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.440 GAP 4.15 AZP 92.23 TAL 156.50 TAP 29.88 RCA 106.87 APO 149.65 V2 34.785
 RC 111.645 GL 26.91 GP -6.36 ZAL 54.39 ZAP 136.64 ETS 354.12 ZAE 135.65 ETE 185.71 ZAC 97.42 ETC 167.31 CLP-137.02

PLANETOCENTRIC CONIC
 C3 15.845 VHL 3.981 CLA 38.55 RAL 22.52 RAD 6567.6 VEL 11.714 PTH 2.06 VHP 3.770 DPA -8.20 RAP 5.32 ECC 1.2608
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.67 21 56 11 4075.90 -27.96 178.10 250.76 62.31 23 4 7 3475.9 -31.43 170.22
 117.33 4 18 31 2888.59 -27.95 88.20 250.76 62.29 5 6 39 2288.6 -31.42 80.31
 62.67 21 56 11 4075.90 -27.96 178.10 250.76 62.31 23 4 7 3475.9 -31.43 170.22
 117.33 4 18 31 2888.59 -27.95 88.20 250.76 62.29 5 6 39 2288.6 -31.42 80.31
 62.67 21 56 11 4075.90 -27.96 178.10 250.76 62.31 23 4 7 3475.9 -31.43 170.22
 117.33 4 18 31 2888.59 -27.95 88.20 250.76 62.29 5 6 39 2288.6 -31.42 80.31

MID-COURSE EXECUTION ACCURACY
 SGT 5144.3 SGR 529.2 SG3 1020.9
 RRT .8163 RRF .7981 RTF .9887
 SGB 5171.5 R23 -.0205 R13 .9886
 SG1 5162.5 SG2 304.6 TMA 4.82

ORBIT DETERMINATION ACCURACY
 ST 3383.4 SR 501.5 SS 2374.1
 CRT .9843 CRS -.9686 CST -.9972
 LSA 4159.8 MSA 175.6 SSA 11.1
 EL1 3419.3 EL2 87.5 ALF 8.31

DIFFERENTIAL CORRECTIONS
 TOE 2.2578 TRA 1.7002 TC3-3.1054 BAU .6579
 RDE .3465 RRA .0954 RC3 -.0264 FAU .10619
 FDE 4.7458 FRA 4.5980 FC3-5.8020 BSP 16112
 BOE 2.2842 BRA 1.7029 BC3 3.1055 FSP -3613

LAUNCH DATE DEC 17 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 524.882

RL 147.21 LAL .00 LOL 85.12 VL 27.705 GAL 4.68 AZL 86.30 MCA 236.54 SMA 128.16 ECC .16913 INC 3.6952 VI 30.265
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.431 GAP 4.53 AZP 92.04 TAL 155.81 TAP 32.36 RCA 106.49 APO 149.84 V2 34.787
 RC 114.042 GL 26.14 GP -5.84 ZAL 53.37 ZAP 139.55 ETS 354.02 ZAE 134.02 ETE 184.74 ZAC 97.57 ETC 167.28 CLP-139.90

PLANETOCENTRIC CONIC

C3 16.316 VHL 4.039 DLA 38.18 RAL 23.85 RAD 6567.7 VEL 11.735 PTH 2.07 VMP 3.941 DPA -7.62 RAP 5.36 ECC 1.2685
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.25 22 4 19 4074.42 -27.50 177.71 252.40 62.41 23 12 14 3474.4 -30.96 169.86
 116.75 4 21 1 2903.38 -27.49 89.15 252.40 62.40 5 9 25 2303.4 -30.95 81.30
 63.25 22 4 19 4074.42 -27.50 177.71 252.40 62.41 23 12 14 3474.4 -30.96 169.86
 116.75 4 21 1 2903.38 -27.49 89.15 252.40 62.40 5 9 25 2303.4 -30.95 81.30
 63.25 22 4 19 4074.42 -27.50 177.71 252.40 62.41 23 12 14 3474.4 -30.96 169.86
 116.75 4 21 1 2903.38 -27.49 89.15 252.40 62.40 5 9 25 2303.4 -30.95 81.30

DIFFERENTIAL CORRECTIONS

TDE 2.3269 TRA 1.8561 TC3-3.1391 BAU .6847
 RDE .3394 RRA .0812 RC3 .0024 FAU .09662
 FDE 4.3356 FRA 4.4082 FC3-5.1266 BSP 16834
 BDE 2.3515 BRA 1.8579 BC3 3.1391 FSP -3340

MID-COURSE EXECUTION ACCURACY

SGT 5342.5 SGR 503.2 SG3 939.5
 RRT .7718 RRF .7526 RTF .9888
 SGB 5366.1 R23 -.0208 R13 .9887
 SG1 5356.6 SG2 319.2 THA 4.17

ORBIT DETERMINATION ACCURACY

ST 3451.0 SR 483.4 SS 2246.4
 CRT .9789 CRS -.9611 CST -.9972
 LSA 4142.2 MSA 177.1 SSA 11.5
 EL1 3483.4 EL2 97.8 ALF 7.81

LAUNCH DATE DEC 17 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 530.924

RL 147.21 LAL .00 LOL 85.12 VL 27.690 GAL 4.89 AZL 86.34 MCA 239.70 SMA 128.06 ECC .17171 INC 3.6558 VI 30.265
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.423 GAP 4.91 AZP 91.85 TAL 155.10 TAP 34.80 RCA 106.07 APO 150.05 V2 34.790
 RC 116.435 GL 25.37 GP -5.39 ZAL 52.30 ZAP 142.25 ETS 353.93 ZAE 132.55 ETE 183.96 ZAC 97.93 ETC 167.28 CLP-142.58

PLANETOCENTRIC CONIC

C3 16.860 VHL 4.106 DLA 37.80 RAL 25.22 RAD 6567.7 VEL 11.758 PTH 2.08 VMP 4.121 DPA -7.01 RAP 5.61 ECC 1.2775
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.83 22 12 42 4073.43 -27.02 177.34 254.14 62.49 23 20 35 3473.4 -30.47 169.53
 116.17 4 23 32 2919.40 -27.01 90.18 254.13 62.48 5 12 12 2319.4 -30.46 82.37
 63.83 22 12 42 4073.43 -27.02 177.34 254.14 62.49 23 20 35 3473.4 -30.47 169.53
 116.17 4 23 32 2919.40 -27.01 90.18 254.13 62.48 5 12 12 2319.4 -30.46 82.37
 63.83 22 12 42 4073.43 -27.02 177.34 254.14 62.49 23 20 35 3473.4 -30.47 169.53
 116.17 4 23 32 2919.40 -27.01 90.18 254.13 62.48 5 12 12 2319.4 -30.46 82.37

DIFFERENTIAL CORRECTIONS

TDE 2.3921 TRA 2.0202 TC3-3.1411 BAU .7080
 RDE .3364 RRA .0696 RC3 .0255 FAU .08740
 FDE 3.9721 FRA 4.2391 FC3-4.4878 BSP 17426
 BDE 2.4156 BRA 2.0214 BC3 3.1412 FSP -3070

MID-COURSE EXECUTION ACCURACY

SGT 5524.9 SGR 485.7 SG3 865.5
 RRT .7272 RRF .7081 RTF .9886
 SGB 5546.3 R23 -.0197 R13 .9886
 SG1 5536.3 SG2 332.7 THA 3.67

ORBIT DETERMINATION ACCURACY

ST 3506.2 SR 470.9 SS 2129.8
 CRT .9730 CRS -.9532 CST -.9972
 LSA 4125.4 MSA 179.1 SSA 12.0
 EL1 3536.0 EL2 107.8 ALF 7.45

LAUNCH DATE DEC 17 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 536.942

RL 147.21 LAL .00 LOL 85.12 VL 27.673 GAL 5.12 AZL 86.38 MCA 242.87 SMA 127.95 ECC .17452 INC 3.6188 VI 30.265
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.414 GAP 5.29 AZP 91.65 TAL 154.35 TAP 37.21 RCA 105.62 APO 150.28 V2 34.794
 RC 118.823 GL 24.59 GP -5.00 ZAL 51.22 ZAP 144.76 ETS 353.87 ZAE 131.22 ETE 183.32 ZAC 98.48 ETC 167.30 CLP-145.07

PLANETOCENTRIC CONIC

C3 17.483 VHL 4.181 DLA 37.43 RAL 26.61 RAD 6567.7 VEL 11.784 PTH 2.08 VMP 4.311 DPA -6.37 RAP 6.06 ECC 1.2877
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 115.57 4 26 3 2936.62 -26.50 91.29 255.94 62.54 5 14 59 2336.6 -29.95 83.52
 64.43 22 21 16 4072.96 -26.51 177.01 255.95 62.55 23 29 9 3473.0 -29.96 169.23
 115.57 4 26 3 2936.62 -26.50 91.29 255.94 62.54 5 14 59 2336.6 -29.95 83.52
 64.43 22 21 16 4072.96 -26.51 177.01 255.95 62.55 23 29 9 3473.0 -29.96 169.23
 115.57 4 26 3 2936.62 -26.50 91.29 255.94 62.54 5 14 59 2336.6 -29.95 83.52

DIFFERENTIAL CORRECTIONS

TDE 2.4478 TRA 2.1868 TC3-3.1263 BAU .7308
 RDE .3365 RRA .0599 RC3 .0424 FAU .07927
 FDE 3.6364 FRA 4.0743 FC3-3.9255 BSP 18038
 BDE 2.4709 BRA 2.1876 BC3 3.1266 FSP -2840

MID-COURSE EXECUTION ACCURACY

SGT 5685.5 SGR 473.9 SG3 796.7
 RRT .6844 RRF .6654 RTF .9885
 SGB 5705.2 R23 -.0186 R13 .9884
 SG1 5694.8 SG2 344.9 THA 3.28

ORBIT DETERMINATION ACCURACY

ST 3541.0 SR 462.1 SS 2015.7
 CRT .9665 CRS -.9448 CST -.9972
 LSA 4096.7 MSA 181.5 SSA 12.3
 EL1 3569.1 EL2 117.6 ALF 7.20

LAUNCH DATE DEC 17 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 542.933

RL 147.21 LAL .00 LOL 85.12 VL 27.657 GAL 5.37 AZL 86.42 MCA 246.03 SMA 127.83 ECC .17757 INC 3.5839 VI 30.265
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.405 GAP 5.69 AZP 91.46 TAL 153.57 TAP 39.60 RCA 105.13 APO 150.53 V2 34.798
 RC 121.206 GL 23.80 GP -4.65 ZAL 50.10 ZAP 147.11 ETS 353.80 ZAE 130.04 ETE 182.79 ZAC 99.21 ETC 167.34 CLP-147.40

PLANETOCENTRIC CONIC

C3 18.191 VHL 4.265 DLA 37.05 RAL 28.02 RAD 6567.7 VEL 11.814 PTH 2.09 VMP 4.510 DPA -5.71 RAP 6.67 ECC 1.2994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.05 22 30 5 4072.90 -25.97 176.69 257.84 62.60 23 37 57 3472.9 -29.42 168.96
 114.95 4 28 30 2955.18 -25.96 92.49 257.83 62.59 5 17 45 2355.2 -29.41 84.76
 65.05 22 30 5 4072.90 -25.97 176.69 257.84 62.60 23 37 57 3472.9 -29.42 168.96
 114.95 4 28 30 2955.18 -25.96 92.49 257.83 62.59 5 17 45 2355.2 -29.41 84.76
 65.05 22 30 5 4072.90 -25.97 176.69 257.84 62.60 23 37 57 3472.9 -29.42 168.96
 114.95 4 28 30 2955.18 -25.96 92.49 257.83 62.59 5 17 45 2355.2 -29.41 84.76

DIFFERENTIAL CORRECTIONS

TDE 2.4988 TRA 2.3605 TC3-3.0902 BAU .7517
 RDE .3395 RRA .0522 RC3 .0546 FAU .07179
 FDE 3.3359 FRA 3.9241 FC3-3.4164 BSP 18595
 BDE 2.5217 BRA 2.3611 BC3 3.0907 FSP -2626

MID-COURSE EXECUTION ACCURACY

SGT 5830.9 SGR 466.7 SG3 734.1
 RRT .6456 RRF .6274 RTF .9883
 SGB 5849.6 R23 -.0170 R13 .9882
 SG1 5838.8 SG2 356.0 THA 2.97

ORBIT DETERMINATION ACCURACY

ST 3562.9 SR 456.8 SS 1909.6
 CRT .9598 CRS -.9362 CST -.9972
 LSA 4063.9 MSA 184.4 SSA 12.6
 EL1 3589.8 EL2 127.3 ALF 7.02

LAUNCH DATE DEC 17 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 548.898

RL 147.21 LAL .00 LOL 85.12 VL 27.639 GAL 5.63 AZL 86.45 HCA 249.19 SMA 127.71 ECC .18089 INC 3.5506 V1 30.265
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.397 GAP 6.08 AZP 91.26 TAL 152.76 TAP 41.96 RCA 104.61 APO 150.81 V2 34.803
 RC 123.581 GL 23.01 GP -4.34 ZAL 48.96 ZAP 149.31 ETS 353.74 ZAE 128.97 ETE 182.36 ZAC 100.08 ETC 167.38 CLP-149.59

PLANETOCENTRIC CONIC

C3 18.994 VHL 4.358 OLA 36.66 RAL 29.44 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 4.718 DPA -5.02 RAP 7.43 ECC 1.3126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.68 22 39 6 4073.23 -25.41 176.39 259.80 62.64 23 46 59 3473.2 -28.86 168.70
 114.32 4 30 52 2975.12 -25.39 93.78 259.80 62.63 5 20 27 2375.1 -28.85 86.09
 65.68 22 39 6 4073.23 -25.41 176.39 259.80 62.64 23 46 59 3473.2 -28.86 168.70
 114.32 4 30 52 2975.12 -25.39 93.78 259.80 62.63 5 20 27 2375.1 -28.85 86.09
 65.68 22 39 6 4073.23 -25.41 176.39 259.80 62.64 23 46 59 3473.2 -28.86 168.70
 114.32 4 30 52 2975.12 -25.39 93.78 259.80 62.63 5 20 27 2375.1 -28.85 86.09

DIFFERENTIAL CORRECTIONS

TOE 2.5452 TRA 2.5425 TC3-3.0331 BAU .7704
 RDE .3449 RRA .0465 RC3 .0629 FAU .06487
 FDE 3.0652 FRA 3.7873 FC3-2.9568 BSP 19102
 BOE 2.5684 BRA 2.5429 BC3 3.0338 FSP -2429

MID-COURSE EXECUTION ACCURACY

SGT 5962.0 SGR 463.0 SG3 677.0
 RRT .6120 RRF .5949 RTF .9880
 SGB 5979.9 R23 -.0152 R13 .9880
 SGI 5968.7 SG2 365.7 TMA 2.73

ORBIT DETERMINATION ACCURACY

ST 3572.7 SR 453.9 SS 1809.9
 CRT .9529 CRS -.9275 CST -.9972
 LSA 4026.3 MSA 187.7 SSA 12.8
 EL1 3598.9 EL2 136.7 ALF 6.91

LAUNCH DATE DEC 17 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 554.835

RL 147.21 LAL .00 LOL 85.12 VL 27.620 GAL 5.92 AZL 86.48 HCA 252.36 SMA 127.59 ECC .18449 INC 3.5187 V1 30.265
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.380 GAP 6.49 AZP 91.07 TAL 151.94 TAP 44.29 RCA 104.05 APO 151.13 V2 34.808
 RC 125.948 GL 22.21 GP -4.06 ZAL 47.81 ZAP 151.38 ETS 353.66 ZAE 128.01 ETE 182.00 ZAC 101.09 ETC 167.42 CLP-151.64

PLANETOCENTRIC CONIC

C3 19.901 VHL 4.461 OLA 36.26 RAL 30.88 RAD 6567.8 VEL 11.886 PTH 2.11 VHP 4.936 DPA -4.31 RAP 8.33 ECC 1.3275
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.34 22 48 23 4073.75 -24.81 176.10 261.84 62.66 23 56 17 3473.7 -28.27 168.44
 113.66 4 33 3 2996.69 -24.80 95.17 261.83 62.65 5 22 59 2396.7 -28.25 87.52
 66.34 22 48 23 4073.75 -24.81 176.10 261.84 62.66 23 56 17 3473.7 -28.27 168.44
 113.66 4 33 3 2996.69 -24.80 95.17 261.83 62.65 5 22 59 2396.7 -28.25 87.52
 66.34 22 48 23 4073.75 -24.81 176.10 261.84 62.66 23 56 17 3473.7 -28.27 168.44
 113.66 4 33 3 2996.69 -24.80 95.17 261.83 62.65 5 22 59 2396.7 -28.25 87.52

DIFFERENTIAL CORRECTIONS

TDE 2.5879 TRA 2.7332 TC3-2.9586 BAU .7874
 RDE .3524 RRA .0425 RC3 .0678 FAU .05854
 FDE 2.8222 FRA 3.6825 FC3-2.5466 BSP 19566
 BOE 2.6118 BRA 2.7335 BC3 2.9594 FSP -2250

MID-COURSE EXECUTION ACCURACY

SGT 6080.2 SGR 461.6 SG3 625.0
 RRT .5842 RRF .5685 RTF .9877
 SGB 6097.7 R23 -.0132 R13 .9876
 SGI 6086.2 SG2 374.3 TMA 2.55

ORBIT DETERMINATION ACCURACY

ST 3572.1 SR 453.0 SS 1717.0
 CRT .9459 CRS -.9189 CST -.9971
 LSA 3984.5 MSA 191.4 SSA 13.0
 EL1 3597.7 EL2 146.0 ALF 6.85

LAUNCH DATE DEC 17 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 560.741

RL 147.21 LAL .00 LOL 85.12 VL 27.601 GAL 6.22 AZL 86.51 HCA 255.52 SMA 127.46 ECC .18838 INC 3.4879 V1 30.265
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.380 GAP 6.91 AZP 90.87 TAL 151.09 TAP 46.61 RCA 103.45 APO 151.47 V2 34.815
 RC 128.306 GL 21.40 GP -3.81 ZAL 46.64 ZAP 153.33 ETS 353.58 ZAE 127.14 ETE 181.70 ZAC 102.22 ETC 167.46 CLP-153.58

PLANETOCENTRIC CONIC

C3 20.923 VHL 4.574 OLA 35.85 RAL 32.33 RAD 6567.9 VEL 11.929 PTH 2.12 VHP 5.164 DPA -3.58 RAP 9.34 ECC 1.3443
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.03 22 57 53 4074.59 -24.18 175.81 263.93 62.68 24 5 47 3474.6 -27.64 168.20
 112.97 4 35 4 3019.77 -24.17 96.66 263.92 62.67 5 25 24 2419.8 -27.63 89.06
 67.03 22 57 53 4074.59 -24.18 175.81 263.93 62.68 24 5 47 3474.6 -27.64 168.20
 112.97 4 35 4 3019.77 -24.17 96.66 263.92 62.67 5 25 24 2419.8 -27.63 89.06
 67.03 22 57 53 4074.59 -24.18 175.81 263.93 62.68 24 5 47 3474.6 -27.64 168.20
 112.97 4 35 4 3019.77 -24.17 96.66 263.92 62.67 5 25 24 2419.8 -27.63 89.06

DIFFERENTIAL CORRECTIONS

TDE 2.6309 TRA 2.9377 TC3-2.8612 BAU .8006
 RDE .3618 RRA .0405 RC3 .0702 FAU .05247
 FDE 2.6081 FRA 3.5546 FC3-2.1712 BSP 19904
 BOE 2.6556 BRA 2.9380 BC3 2.8621 FSP -2073

MID-COURSE EXECUTION ACCURACY

SGT 6190.6 SGR 462.0 SG3 578.3
 RRT .5628 RRF .5488 RTF .9873
 SGB 6207.9 R23 -.0108 R13 .9872
 SGI 6196.1 SG2 381.6 TMA 2.41

ORBIT DETERMINATION ACCURACY

ST 3566.6 SR 453.6 SS 1632.8
 CRT .9389 CRS -.9105 CST -.9972
 LSA 3943.9 MSA 195.5 SSA 13.1
 EL1 3592.0 EL2 155.1 ALF 6.82

LAUNCH DATE DEC 17 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 566.614

RL 147.21 LAL .00 LOL 85.12 VL 27.582 GAL 6.55 AZL 86.54 HCA 258.69 SMA 127.33 ECC .19259 INC 3.4580 V1 30.265
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.372 GAP 7.34 AZP 90.68 TAL 150.22 TAP 48.91 RCA 102.81 APO 151.85 V2 34.821
 RC 130.653 GL 20.60 GP -3.60 ZAL 45.46 ZAP 155.17 ETS 353.47 ZAE 126.36 ETE 181.46 ZAC 103.46 ETC 167.50 CLP-155.42

PLANETOCENTRIC CONIC

C3 22.074 VHL 4.698 OLA 35.44 RAL 33.77 RAD 6567.9 VEL 11.977 PTH 2.13 VHP 5.403 DPA -2.83 RAP 10.46 ECC 1.3633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.74 23 7 38 4075.56 -23.52 175.51 266.08 62.69 24 15 34 3475.6 -26.99 167.95
 112.26 4 36 51 3044.61 -23.51 98.27 266.08 62.68 5 27 36 2444.6 -26.97 90.71
 67.74 23 7 38 4075.56 -23.52 175.51 266.08 62.69 24 15 34 3475.6 -26.99 167.95
 112.26 4 36 51 3044.61 -23.51 98.27 266.08 62.68 5 27 36 2444.6 -26.97 90.71
 67.74 23 7 38 4075.56 -23.52 175.51 266.08 62.69 24 15 34 3475.6 -26.99 167.95
 112.26 4 36 51 3044.61 -23.51 98.27 266.08 62.68 5 27 36 2444.6 -26.97 90.71

DIFFERENTIAL CORRECTIONS

TDE 2.6669 TRA 3.1489 TC3-2.7581 BAU .8142
 RDE .3727 RRA .0400 RC3 .0699 FAU .04720
 FDE 2.4098 FRA 3.4517 FC3-1.8513 BSP 20306
 BOE 2.6928 BRA 3.1491 BC3 2.7590 FSP -1925

MID-COURSE EXECUTION ACCURACY

SGT 6285.7 SGR 463.1 SG3 535.1
 RRT .5463 RRF .5338 RTF .9869
 SGB 6302.7 R23 -.0089 R13 .9869
 SGI 6290.8 SG2 387.6 TMA 2.31

ORBIT DETERMINATION ACCURACY

ST 3547.3 SR 454.8 SS 1551.1
 CRT .9318 CRS -.9021 CST -.9972
 LSA 3893.1 MSA 199.8 SSA 13.2
 EL1 3572.6 EL2 163.9 ALF 6.83

LAUNCH DATE DEC 17 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 572.451

RL 147.21 LAL .00 LOL 85.12 VL 27.562 GAL 6.90 AZL 86.57 MCA 261.86 SMA 127.19 ECC .19714 INC 3.4287 V1 30.265
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.364 GAP 7.79 AZP 90.49 TAL 149.33 TAP 51.19 RCA 102.12 APO 152.27 V2 34.829
 RC 132.989 GL 19.79 GP -3.40 ZAL 44.27 ZAP 156.93 ETS 353.34 ZAE 125.66 ETE 181.26 ZAC 104.79 ETC 167.53 CLP-157.17

PLANETOCENTRIC CONIC

C3 23.368 VHL 4.834 DLA 35.01 RAL 35.21 RAD 6567.9 VEL 12.031 PTH 2.15 VHP 5.653 DPA -2.06 RAP 11.67 ECC 1.3846
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.49 23 17 39 4076.58 -22.83 175.21 268.29 62.70 24 25 36 3476.6 -26.30 167.69
 111.51 4 38 20 3071.30 -22.82 99.99 268.28 62.69 5 29 31 2471.3 -26.29 92.48
 68.49 23 17 39 4076.58 -22.83 175.21 268.29 62.70 24 25 36 3476.6 -26.30 167.69
 111.51 4 38 20 3071.30 -22.82 99.99 268.28 62.69 5 29 31 2471.3 -26.29 92.48
 68.49 23 17 39 4076.58 -22.83 175.21 268.29 62.70 24 25 36 3476.6 -26.30 167.69
 111.51 4 38 20 3071.30 -22.82 99.99 268.28 62.69 5 29 31 2471.3 -26.29 92.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7014 TRA 3.3724 TC3-2.6418 BAU .8256 SGT 6371.3 SGR 464.7 SG3 495.8 ST 3521.5 SR 456.5 SS 1475.5
 RDE .3849 RRA .0413 RC3 .0679 FAU .04231 RRT .5351 RRF .5240 RTF .9865 CRT .9247 CRS -.8938 CST -.9972
 FDE 2.2319 FRA 3.3596 FC3-1.5676 BSP 20667 SGB 6388.2 R23 -.0069 R13 -.9865 LSA 3839.9 MSA 204.4 SSA 13.2
 BOE 2.7286 BRA 3.3727 BC3 2.6427 FSP -1788 SG1 6376.1 SG2 392.3 THA 2.24 EL1 3546.8 EL2 172.5 ALF 6.85

LAUNCH DATE DEC 17 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 578.249

RL 147.21 LAL .00 LOL 85.12 VL 27.541 GAL 7.28 AZL 86.60 MCA 265.03 SMA 127.05 ECC .20206 INC 3.3998 V1 30.265
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.357 GAP 8.25 AZP 90.29 TAL 148.43 TAP 53.46 RCA 101.38 APO 152.73 V2 34.837
 RC 135.313 GL 18.98 GP -3.22 ZAL 43.08 ZAP 158.60 ETS 353.17 ZAE 125.02 ETE 181.09 ZAC 106.21 ETC 167.56 CLP-158.83

PLANETOCENTRIC CONIC

C3 24.826 VHL 4.983 DLA 34.58 RAL 36.65 RAD 6568.0 VEL 12.091 PTH 2.16 VHP 5.915 DPA -1.28 RAP 12.97 ECC 1.4086
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.27 23 27 54 4077.71 -22.11 174.89 270.55 62.71 24 35 51 3477.7 -25.58 167.43
 110.73 4 39 31 3099.83 -22.10 101.84 270.54 62.70 5 31 11 2499.8 -25.57 94.37
 69.27 23 27 54 4077.71 -22.11 174.89 270.55 62.71 24 35 51 3477.7 -25.58 167.43
 110.73 4 39 31 3099.83 -22.10 101.84 270.54 62.70 5 31 11 2499.8 -25.57 94.37
 69.27 23 27 54 4077.71 -22.11 174.89 270.55 62.71 24 35 51 3477.7 -25.58 167.43
 110.73 4 39 31 3099.83 -22.10 101.84 270.54 62.70 5 31 11 2499.8 -25.57 94.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7340 TRA 3.6089 TC3-2.5154 BAU .8351 SGT 6447.7 SGR 466.5 SG3 460.0 ST 3489.5 SR 458.3 SS 1405.3
 RDE .3982 RRA .0442 RC3 .0646 FAU .03782 RRT .5284 RRF .5189 RTF .9861 CRT .9176 CRS -.8857 CST -.9972
 FDE 2.0717 FRA 3.2769 FC3-1.3189 BSP 20992 SGB 6464.6 R23 -.0049 R13 .9861 LSA 3783.8 MSA 209.0 SSA 13.1
 BOE 2.7629 BRA 3.6092 BC3 2.5163 FSP -1662 SG1 6452.4 SG2 395.8 THA 2.20 EL1 3514.8 EL2 180.8 ALF 6.89

LAUNCH DATE DEC 17 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 584.004

RL 147.21 LAL .00 LOL 85.12 VL 27.520 GAL 7.69 AZL 86.63 MCA 268.20 SMA 126.91 ECC .20739 INC 3.3712 V1 30.265
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.349 GAP 8.72 AZP 90.11 TAL 147.52 TAP 55.72 RCA 100.59 APO 153.23 V2 34.846
 RC 137.625 GL 18.16 GP -3.07 ZAL 41.90 ZAP 160.20 ETS 352.96 ZAE 124.43 ETE 180.96 ZAC 107.70 ETC 167.56 CLP-160.43

PLANETOCENTRIC CONIC

C3 26.468 VHL 5.145 DLA 34.13 RAL 38.07 RAD 6568.1 VEL 12.159 PTH 2.18 VHP 6.190 DPA -.49 RAP 14.33 ECC 1.4356
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.10 23 38 28 4078.62 -21.36 174.54 272.86 62.72 24 46 26 3478.6 -24.84 167.13
 109.90 4 40 16 3130.56 -21.34 103.82 272.85 62.71 5 32 27 2530.6 -24.82 96.41
 70.10 23 38 28 4078.62 -21.36 174.54 272.86 62.72 24 46 26 3478.6 -24.84 167.13
 109.90 4 40 16 3130.56 -21.34 103.82 272.85 62.71 5 32 27 2530.6 -24.82 96.41
 110.00 4 55 5 3085.42 -22.70 101.04 273.59 63.73 5 46 31 2485.4 -26.04 93.47
 110.00 4 26 45 3171.76 -20.01 106.29 272.09 61.69 5 19 37 2571.8 -23.63 99.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7697 TRA 3.8640 TC3-2.3738 BAU .8402 SGT 6519.8 SGR 468.5 SG3 427.7 ST 3457.2 SR 460.1 SS 1342.5
 RDE .4128 RRA .0490 RC3 .0606 FAU .03347 RRT .5265 RRF .5185 RTF .9857 CRT .9107 CRS -.8780 CST -.9973
 FDE 1.9310 FRA 3.2068 FC3-1.0947 BSP 21193 SGB 6536.6 R23 -.0028 R13 .9857 LSA 3731.0 MSA 213.5 SSA 13.1
 BOE 2.8002 BRA 3.8643 BC3 2.3746 FSP -1538 SG1 6524.5 SG2 398.1 THA 2.18 EL1 3482.6 EL2 188.7 ALF 6.93

LAUNCH DATE DEC 17 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 589.710

RL 147.21 LAL .00 LOL 85.12 VL 27.499 GAL 8.12 AZL 86.66 MCA 271.37 SMA 126.77 ECC .21315 INC 3.3427 V1 30.265
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.342 GAP 9.22 AZP 89.92 TAL 146.60 TAP 57.98 RCA 99.75 APO 153.79 V2 34.855
 RC 139.923 GL 17.35 GP -2.92 ZAL 40.72 ZAP 161.74 ETS 352.70 ZAE 123.90 ETE 180.85 ZAC 109.25 ETC 167.56 CLP-161.96

PLANETOCENTRIC CONIC

C3 28.319 VHL 5.322 DLA 33.68 RAL 39.47 RAD 6568.1 VEL 12.235 PTH 2.20 VHP 6.480 DPA .31 RAP 15.77 ECC 1.4661
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.96 23 49 20 4079.30 -20.57 174.16 275.20 62.73 24 57 19 3479.3 -24.06 166.80
 109.04 4 40 35 3163.51 -20.56 105.95 275.19 62.72 5 33 18 2563.5 -24.04 98.59
 70.96 23 49 20 4079.30 -20.57 174.16 275.20 62.73 24 57 19 3479.3 -24.06 166.80
 109.04 4 40 35 3163.51 -20.56 105.95 275.19 62.72 5 33 18 2563.5 -24.04 98.59
 110.00 5 31 2 3009.24 -24.92 96.23 277.47 65.80 6 21 11 2409.2 -27.97 88.38
 110.00 4 1 59 3281.57 -16.33 112.68 272.74 59.55 4 56 41 2681.6 -20.25 105.75

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7997 TRA 4.1293 TC3-2.2332 BAU .8457 SGT 6578.6 SGR 470.0 SG3 397.7 ST 3414.7 SR 461.2 SS 1281.7
 RDE .4279 RRA .0553 RC3 .0556 FAU .02967 RRT .5274 RRF .5206 RTF .9853 CRT .9036 CRS -.8702 CST -.9973
 FDE 1.7995 FRA 3.1402 FC3 -.9072 BSP 21478 SGB 6595.3 R23 -.0012 R13 .9853 LSA 3669.8 MSA 218.1 SSA 13.0
 BOE 2.8322 BRA 4.1297 BC3 2.2339 FSP -1433 SG1 6583.3 SG2 399.0 THA 2.17 EL1 3440.1 EL2 196.2 ALF 6.98

LAUNCH DATE DEC 17 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.478 GAL 8.59 AZL 86.69 MCA 274.55 SMA 126.63 ECC .21940 INC 3.3141 V1 30.265
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.336 GAP 9.74 AZP 89.74 TAL 145.68 TAP 60.23 RCA 98.85 APO 154.41 V2 34.865
 RC 142.207 GL 16.55 GP -2.80 ZAL 39.55 ZAP 163.22 ETS 352.38 ZAE 123.41 ETE 180.76 ZAC 110.86 ETC 167.53 CLP-163.45

PLANETOCENTRIC CONIC

C3 30.410 VHL 5.514 CLA 33.21 RAL 40.84 RAD 6568.2 VEL 12.320 PTH 2.22 VHP 6.786 DPA 1.12 RAP 17.26 ECC 1.5005
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.88 0 4 25 4079.72 -19.76 173.75 277.59 62.75 1 12 25 3479.7 -23.25 166.43
 108.12 4 40 25 3198.76 -19.74 108.24 277.58 62.74 5 33 43 2598.8 -23.24 100.92
 71.88 0 4 25 4079.72 -19.76 173.75 277.59 62.75 1 12 25 3479.7 -23.25 166.43
 108.12 4 40 25 3198.76 -19.74 108.24 277.58 62.74 5 33 43 2598.8 -23.24 100.92
 110.00 5 53 35 2974.22 -25.87 93.96 280.71 66.84 6 43 9 2374.2 -28.78 85.98
 110.00 3 50 26 3352.25 -13.85 116.66 274.11 58.43 4 46 18 2752.2 -17.93 109.92

DIFFERENTIAL CORRECTIONS

TDE 2.8296 TRA 4.4119 TC3-2.0868 BAU .8486
 RDE .4438 RRA .0634 RC3 .0502 FAU .02615
 FDE 1.6811 FRA 3.0820 FC3 -.7444 BSP 21738
 BDE 2.8642 BRA 4.4123 BC3 2.0874 FSP -1337

MID-COURSE EXECUTION ACCURACY

SGT 6630.1 SGR 471.1 SG3 370.3
 RRT .5314 RRF .5256 RTF .9850
 SGB 6646.9 R23 .0003 R13 .9850
 SG1 6634.9 SG2 398.8 THA 2.17

ORBIT DETERMINATION ACCURACY

ST 3368.9 SR 461.8 SS 1225.7
 CRT .8964 CRS -.8625 CST -.9974
 LSA 3607.7 MSA 222.5 SSA 12.9
 EL1 3394.4 EL2 203.1 ALF 7.03

LAUNCH DATE DEC 17 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.456 GAL 9.09 AZL 86.71 MCA 277.72 SMA 126.48 ECC .22617 INC 3.2852 V1 30.265
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.329 GAP 10.29 AZP 89.56 TAL 144.76 TAP 62.49 RCA 97.88 APO 155.09 V2 34.875
 RC 144.478 GL 15.75 GP -2.68 ZAL 38.39 ZAP 164.65 ETS 351.97 ZAE 122.95 ETE 180.69 ZAC 112.51 ETC 167.49 CLP-164.88

PLANETOCENTRIC CONIC

C3 32.776 VHL 5.725 CLA 32.74 RAL 42.20 RAD 6568.3 VEL 12.416 PTH 2.24 VHP 7.111 DPA 1.94 RAP 18.79 ECC 1.5394
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.84 0 16 0 4079.43 -18.91 173.27 280.01 62.77 1 24 0 3479.4 -22.41 165.99
 107.16 4 39 37 3236.73 -18.90 110.70 280.00 62.76 5 33 33 2636.7 -22.40 103.42
 72.84 0 16 0 4079.43 -18.91 173.27 280.01 62.77 1 24 0 3479.4 -22.41 165.99
 107.16 4 39 37 3236.73 -18.90 110.70 280.00 62.76 5 33 33 2636.7 -22.40 103.42
 110.00 6 12 25 2950.97 -26.49 92.43 283.80 67.56 7 1 36 2351.0 -29.29 84.37
 110.00 3 42 23 3413.19 -11.66 120.01 275.70 57.64 4 39 16 2813.2 -15.85 113.41

DIFFERENTIAL CORRECTIONS

TDE 2.8604 TRA 4.7131 TC3-1.9363 BAU .8487
 RDE .4604 RRA .0733 RC3 .0448 FAU .02286
 FDE 1.5747 FRA 3.0314 FC3 -.6037 BSP 21963
 BDE 2.8972 BRA 4.7137 BC3 1.9368 FSP -1247

MID-COURSE EXECUTION ACCURACY

SGT 6674.9 SGR 471.8 SG3 345.3
 RRT .5381 RRF .5332 RTF .9848
 SGB 6691.6 R23 .0017 R13 .9848
 SG1 6679.8 SG2 397.3 THA 2.19

ORBIT DETERMINATION ACCURACY

ST 3321.0 SR 461.5 SS 1174.5
 CRT .8892 CRS -.8551 CST -.9975
 LSA 3545.4 MSA 226.5 SSA 12.7
 EL1 3346.4 EL2 209.5 ALF 7.07

LAUNCH DATE DEC 17 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.434 GAL 9.64 AZL 86.74 MCA 280.90 SMA 126.34 ECC .23354 INC 3.2559 V1 30.265
 RP 108.63 LAP -3.20 LOP 6.04 VP 37.323 GAP 10.87 AZP 89.38 TAL 143.85 TAP 64.75 RCA 96.83 APO 155.84 V2 34.885
 RC 146.734 GL 14.95 GP -2.57 ZAL 37.25 ZAP 166.05 ETS 351.45 ZAE 122.52 ETE 180.64 ZAC 114.21 ETC 167.43 CLP-166.28

PLANETOCENTRIC CONIC

C3 35.461 VHL 5.955 CLA 32.25 RAL 43.52 RAD 6568.4 VEL 12.523 PTH 2.27 VHP 7.455 DPA 2.76 RAP 20.38 ECC 1.5836
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.87 0 28 1 4078.35 -18.04 172.71 282.46 62.80 1 35 59 3478.3 -21.54 165.48
 106.13 4 38 8 3277.55 -18.03 113.35 282.45 62.79 5 32 45 2677.5 -21.53 106.12
 73.87 0 28 1 4078.35 -18.04 172.71 282.46 62.80 1 35 59 3478.3 -21.54 165.48
 106.13 4 38 8 3277.55 -18.03 113.35 282.45 62.79 5 32 45 2677.5 -21.53 106.12
 110.00 6 29 12 2934.37 -26.91 91.33 286.84 68.08 7 18 6 2334.4 -29.64 83.20
 110.00 3 36 8 3469.52 -9.59 123.06 277.42 57.03 4 33 57 2869.5 -13.86 116.57

DIFFERENTIAL CORRECTIONS

TDE 2.8921 TRA 5.0344 TC3-1.7832 BAU .8456
 RDE .4775 RRA .0850 RC3 .0395 FAU .01978
 FDE 1.4787 FRA 2.9881 FC3 -.4830 BSP 22162
 BDE 2.9312 BRA 5.0351 BC3 1.7836 FSP -1165

MID-COURSE EXECUTION ACCURACY

SGT 6712.7 SGR 471.9 SG3 322.3
 RRT .5471 RRF .5429 RTF .9846
 SGB 6729.3 R23 .0029 R13 .9846
 SG1 6717.7 SG2 394.7 THA 2.21

ORBIT DETERMINATION ACCURACY

ST 3271.1 SR 460.3 SS 1127.6
 CRT .8820 CRS -.8478 CST -.9976
 LSA 3482.8 MSA 230.2 SSA 12.5
 EL1 3296.3 EL2 215.2 ALF 7.11

LAUNCH DATE DEC 17 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

RL 147.21 LAL .00 LOL 85.12 VL 27.412 GAL 10.22 AZL 86.77 MCA 284.08 SMA 126.19 ECC .24155 INC 3.2259 V1 30.265
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.317 GAP 11.49 AZP 89.21 TAL 142.95 TAP 67.03 RCA 95.71 APO 156.68 V2 34.897
 RC 148.977 GL 14.16 GP -2.48 ZAL 36.14 ZAP 167.40 ETS 350.80 ZAE 122.12 ETE 180.60 ZAC 115.94 ETC 167.34 CLP-167.65

PLANETOCENTRIC CONIC

C3 38.515 VHL 6.206 CLA 31.76 RAL 44.80 RAD 6568.5 VEL 12.644 PTH 2.30 VHP 7.822 DPA 3.58 RAP 22.00 ECC 1.6339
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.97 0 40 33 4076.12 -17.14 172.06 284.94 62.84 1 48 29 3476.1 -20.65 164.87
 105.03 4 35 51 3321.53 -17.13 116.21 284.93 62.84 5 31 13 2721.5 -20.63 109.03
 74.97 0 40 33 4076.12 -17.14 172.06 284.94 62.84 1 48 29 3476.1 -20.65 164.87
 105.03 4 35 51 3321.53 -17.13 116.21 284.93 62.84 5 31 13 2721.5 -20.63 109.03
 110.00 6 44 36 2922.38 -27.22 90.53 289.85 68.47 7 33 18 2322.4 -29.89 82.36
 110.00 3 30 59 3523.26 -7.58 125.93 279.23 56.57 4 29 42 2923.3 -11.93 119.53

DIFFERENTIAL CORRECTIONS

TDE 2.9291 TRA 5.3816 TC3-1.6249 BAU .8368
 RDE .4952 RRA .0988 RC3 .0346 FAU .01678
 FDE 1.3946 FRA 2.9540 FC3 -.3772 BSP 22238
 BDE 2.9706 BRA 5.3825 BC3 1.6252 FSP -1082

MID-COURSE EXECUTION ACCURACY

SGT 6747.5 SGR 471.6 SG3 301.4
 RRT .5585 RRF .5550 RTF .9845
 SGB 6763.9 R23 .0040 R13 .9845
 SG1 6752.6 SG2 390.9 THA 2.24

ORBIT DETERMINATION ACCURACY

ST 3223.3 SR 458.3 SS 1086.4
 CRT .8750 CRS -.8410 CST -.9977
 LSA 3424.2 MSA 233.2 SSA 12.3
 EL1 3248.3 EL2 220.1 ALF 7.12

LAUNCH DATE DEC 18 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 26 1969

HELIOCENTRIC CONIC

DISTANCE 137.631

RL 147.20 LAL .00 LOL 86.14 VL 18.042 GAL 19.74 AZL 86.08 HCA 45.02 SMA 89.81 ECC .68977 INC 3.9189 V1 30.267
 RP 107.48 LAP 2.77 LOP 131.10 VP 31.495 GAP -42.40 AZP 87.23 TAL 170.42 TAP 215.44 RCA 27.86 APO 151.76 V2 35.259
 RC 70.281 GL 4.51 GP .77 ZAL 65.01 ZAP 29.49 ETS 181.02 ZAE 140.41 ETE 189.85 ZAC 75.49 ETC 165.16 CLP 29.48

PLANETOCENTRIC CONIC

C3 217.744 VHL 14.756 DLA 12.45 RAL 17.87 RAD 6571.2 VEL 18.414 PTH 3.04 VHP 24.397 OPA -10.00 RAP 343.11 ECC 4.5835
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 9 20 3143.25 -26.79 106.74 284.08 80.48 6 1 43 2543.3 -27.84 98.23
 90.00 20 20 25 4992.84 22.58 219.12 272.59 72.45 21 43 38 4392.8 19.97 211.42
 100.00 6 37 4 2860.29 -28.51 86.25 284.41 80.60 7 24 44 2260.3 -29.51 77.59
 100.00 21 35 21 4751.04 24.24 200.77 272.01 71.95 22 54 33 4151.0 21.54 193.01
 110.00 7 59 44 2601.59 -33.09 67.47 285.28 80.88 8 43 6 2001.6 -33.99 58.35
 110.00 22 29 10 4582.50 28.63 186.31 270.34 70.48 23 45 33 3982.5 25.70 178.36

DIFFERENTIAL CORRECTIONS

TOE -.7028 TRA -1.7876 TC3 -.1137 BAU .3346
 ROE -1.0466 RRA .4574 RC3 -.0170 FAU .01273
 FDE .3545 FRA .6726 FC3 -.0506 BSP 2193
 BDE 1.2606 BRA 1.8452 BC3 .1149 FSP -61

MID-COURSE EXECUTION ACCURACY

SGT 832.0 SGR 448.0 SG3 29.0
 RRT -.0042 RRF .0014 RTF -.6355
 SGB 945.0 R23 .0024 R13 .6355
 SG1 832.1 SG2 448.0 THA 179.82

ORBIT DETERMINATION ACCURACY

ST 346.5 SR 410.0 SS 336.0
 CRT .6988 CRS .7888 CST .9892
 LSA 591.8 MSA 224.9 SSA 13.8
 EL1 496.2 EL2 204.8 ALF 51.81

LAUNCH DATE DEC 18 1968

FLIGHT TIME 72.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 143.523

RL 147.20 LAL .00 LOL 86.14 VL 18.737 GAL 18.88 AZL 86.14 HCA 48.27 SMA 91.39 ECC .66224 INC 3.8573 V1 30.267
 RP 107.48 LAP 2.88 LOP 134.35 VP 31.898 GAP -40.43 AZP 87.43 TAL 169.63 TAP 217.90 RCA 30.87 APO 151.91 V2 35.259
 RC 68.209 GL 4.86 GP .80 ZAL 63.85 ZAP 27.95 ETS 181.26 ZAE 140.85 ETE 190.43 ZAC 77.15 ETC 165.35 CLP 27.94

PLANETOCENTRIC CONIC

C3 198.126 VHL 14.076 DLA 13.22 RAL 18.85 RAD 6571.1 VEL 17.873 PTH 3.00 VHP 23.435 OPA -9.33 RAP 344.71 ECC 4.2606
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 38 3155.28 -26.65 107.59 284.31 80.07 5 59 13 2555.3 -27.76 99.10
 90.00 20 30 57 4952.24 21.73 216.45 272.40 71.38 21 53 29 4352.2 18.98 208.86
 100.00 6 34 52 2870.72 -28.39 87.00 284.65 80.22 7 22 43 2270.7 -29.45 78.36
 100.00 21 45 24 4712.03 23.39 198.18 271.78 70.84 23 3 56 4112.0 20.56 190.52
 110.00 7 58 37 2608.68 -33.01 68.01 285.56 80.57 8 42 5 2008.7 -33.96 58.90
 110.00 22 38 9 4546.84 27.80 183.87 270.00 69.25 23 53 56 3946.8 24.72 176.05

DIFFERENTIAL CORRECTIONS

TOE -.7010 TRA -1.7925 TC3 -.1200 BAU .3219
 ROE -1.0102 RRA .4347 RC3 -.0190 FAU .01290
 FDE .3682 FRA .6968 FC3 -.0364 BSP 2374
 BDE 1.2296 BRA 1.8445 BC3 .1215 FSP -68

MID-COURSE EXECUTION ACCURACY

SGT 870.3 SGR 452.8 SG3 31.5
 RRT -.0021 RRF -.0010 RTF -.6549
 SGB 981.0 R23 .0029 R13 .6549
 SG1 870.3 SG2 452.8 THA 179.91

ORBIT DETERMINATION ACCURACY

ST 363.4 SR 414.8 SS 351.4
 CRT .6971 CRS .7897 CST .9888
 LSA 611.6 MSA 231.0 SSA 14.0
 EL1 509.0 EL2 212.4 ALF 50.39

LAUNCH DATE DEC 18 1968

FLIGHT TIME 74.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 149.510

RL 147.20 LAL .00 LOL 86.14 VL 19.386 GAL 18.06 AZL 86.20 HCA 51.52 SMA 92.98 ECC .63524 INC 3.8016 V1 30.267
 RP 107.48 LAP 2.98 LOP 137.60 VP 32.282 GAP -38.57 AZP 87.63 TAL 168.85 TAP 220.36 RCA 33.91 APO 152.04 V2 35.257
 RC 66.167 GL 5.22 GP .82 ZAL 62.75 ZAP 26.45 ETS 181.51 ZAE 141.40 ETE 191.04 ZAC 78.82 ETC 165.52 CLP 26.43

PLANETOCENTRIC CONIC

C3 180.373 VHL 13.430 DLA 13.98 RAL 19.78 RAD 6570.9 VEL 17.369 PTH 2.96 VHP 22.508 OPA -8.64 RAP 346.33 ECC 3.9685
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 3 42 3166.50 -26.52 108.38 284.42 79.69 5 56 29 2566.5 -27.67 99.91
 90.00 20 41 18 4911.03 20.81 213.78 272.15 70.35 22 3 9 4311.0 17.94 206.28
 100.00 6 32 27 2880.30 -28.28 87.69 284.78 79.87 7 20 27 2280.3 -29.38 79.06
 100.00 21 55 14 4672.46 22.48 195.59 271.49 69.76 23 13 7 4072.5 19.52 188.04
 110.00 7 57 17 2614.85 -32.94 68.48 285.72 80.30 8 40 52 2014.8 -33.93 59.38
 110.00 22 46 53 4510.68 26.90 181.44 269.62 68.07 24 2 4 3910.7 23.68 173.76

DIFFERENTIAL CORRECTIONS

TOE -.7023 TRA -1.7996 TC3 -.1268 BAU .3101
 ROE -.9739 RRA .4121 RC3 -.0212 FAU .01309
 FDE .3826 FRA .7216 FC3 -.0628 BSP 2496
 BDE 1.2007 BRA 1.8461 BC3 .1286 FSP -74

MID-COURSE EXECUTION ACCURACY

SGT 912.0 SGR 456.8 SG3 34.1
 RRT -.0013 RRF -.0040 RTF -.6735
 SGB 1020.0 R23 -.0029 R13 -.6735
 SG1 912.0 SG2 456.8 THA .05

ORBIT DETERMINATION ACCURACY

ST 382.4 SR 419.0 SS 367.5
 CRT .6965 CRS .7908 CST .9885
 LSA 632.9 MSA 236.8 SSA 14.2
 EL1 522.9 EL2 219.8 ALF 48.75

LAUNCH DATE DEC 18 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 155.586

RL 147.20 LAL .00 LOL 86.14 VL 19.993 GAL 17.27 AZL 86.25 HCA 54.76 SMA 94.56 ECC .60887 INC 3.7507 V1 30.267
 RP 107.49 LAP 3.06 LOP 140.85 VP 32.648 GAP -36.79 AZP 87.83 TAL 168.08 TAP 222.85 RCA 36.99 APO 152.13 V2 35.256
 RC 64.161 GL 5.59 GP .85 ZAL 61.70 ZAP 24.96 ETS 181.79 ZAE 142.05 ETE 191.70 ZAC 80.52 ETC 165.68 CLP 24.94

PLANETOCENTRIC CONIC

C3 164.286 VHL 12.817 DLA 14.72 RAL 20.66 RAD 6570.8 VEL 16.900 PTH 2.91 VHP 21.613 OPA -7.93 RAP 347.95 ECC 3.7037
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 0 32 3176.95 -26.39 109.12 284.41 79.35 5 53 29 2577.0 -27.60 100.66
 90.00 20 51 27 4869.18 19.82 211.11 271.84 69.36 22 12 36 4269.2 16.84 203.70
 100.00 6 29 48 2889.07 -28.17 88.32 284.78 79.56 7 17 57 2289.1 -29.32 79.71
 100.00 22 4 52 4632.30 21.51 193.00 271.15 68.73 23 22 4 4032.3 18.43 185.56
 110.00 7 55 45 2620.12 -32.88 68.88 285.76 80.07 8 39 26 2020.1 -33.90 59.79
 110.00 22 55 24 4474.00 25.94 179.02 269.17 66.92 24 9 58 3874.0 22.59 171.47

DIFFERENTIAL CORRECTIONS

TOE -.7019 TRA -1.8039 TC3 -.1330 BAU .2967
 ROE -.9377 RRA .3896 RC3 -.0235 FAU .01331
 FDE .3972 FRA .7466 FC3 -.0701 BSP 2675
 BDE 1.1713 BRA 1.8455 BC3 .1351 FSP -82

MID-COURSE EXECUTION ACCURACY

SGT 953.8 SGR 460.2 SG3 37.0
 RRT -.0044 RRF -.0073 RTF -.6916
 SGB 1059.0 R23 -.0033 R13 -.6916
 SG1 953.8 SG2 460.2 THA .16

ORBIT DETERMINATION ACCURACY

ST 401.4 SR 422.6 SS 383.9
 CRT .6957 CRS .7920 CST .9881
 LSA 654.4 MSA 242.2 SSA 14.4
 EL1 536.8 EL2 227.0 ALF 47.12

LAUNCH DATE DEC 18 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 161.745

RL 147.20 LAL .00 LOL 86.14 VL 20.561 GAL 16.52 AZL 86.30 MCA 58.01 SMA 96.14 ECC .58319 INC 3.7038 V1 30.267
 RP 107.50 LAP 3.14 LOP 144.10 VP 32.996 GAP -35.11 AZP 88.04 TAL 167.34 TAP 225.35 RCA 40.07 APO 152.20 V2 35.253
 RC 62.196 GL 5.97 GP .88 ZAL 60.72 ZAP 23.48 ETS 182.10 ZAE 142.83 ETE 192.40 ZAC 82.23 ETC 165.83 CLP 23.47

PLANETOCENTRIC CONIC

C3 149.699 VHL 12.235 DLA 15.45 RAL 21.48 RAD 6570.6 VEL 16.463 PTH 2.87 VHP 20.749 DPA -7.21 RAP 349.59 ECC 3.4637
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 57 6 3186.69 -26.27 109.81 284.27 79.02 5 50 13 2586.7 -27.52 101.36
 90.00 21 1 25 4826.64 18.78 208.42 271.48 68.41 22 21 52 4226.6 15.68 201.11
 100.00 6 26 55 2897.05 -28.07 88.89 284.66 79.27 7 15 12 2297.0 -29.26 80.29
 100.00 22 14 18 4591.51 20.48 190.41 270.75 67.74 23 30 49 3991.5 17.28 183.07
 110.00 7 54 1 2624.53 -32.83 69.21 285.68 79.88 8 37 45 2024.5 -33.87 60.13
 110.00 23 3 41 4436.79 24.93 176.60 268.68 65.82 24 17 38 3836.8 21.45 169.18

DIFFERENTIAL CORRECTIONS

TDE -.7039 TRA-1.8094 TC3 -.1394 BAU .2839
 RDE -.9017 RRA .3673 RC3 -.0261 FAU .01354
 FDE .4127 FRA .7723 FC3 -.0783 BSP 2808
 BDE 1.1439 BRA 1.8463 BC3 .1419 FSP -90

MID-COURSE EXECUTION ACCURACY

SGT 998.9 SGR 462.8 SG3 40.0
 RRT .0088 RRF -.0112 RTF -.7087
 SGB 1100.9 R23 -.0033 R13 -.7087
 SG1 999.0 SG2 462.8 THA .30

ORBIT DETERMINATION ACCURACY

ST 422.3 SR 425.6 SS 401.1
 CRT .6960 CRS .7935 CST .9879
 LSA 677.5 MSA 247.1 SSA 14.6
 EL1 552.1 EL2 233.8 ALF 45.32

LAUNCH DATE DEC 18 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 167.981

RL 147.20 LAL .00 LOL 86.14 VL 21.092 GAL 15.79 AZL 86.34 MCA 61.26 SMA 97.70 ECC .55826 INC 3.6601 V1 30.267
 RP 107.51 LAP 3.21 LOP 147.35 VP 33.326 GAP -33.50 AZP 88.24 TAL 166.62 TAP 227.88 RCA 43.16 APO 152.25 V2 35.250
 RC 60.278 GL 6.37 GP .91 ZAL 59.79 ZAP 22.03 ETS 182.43 ZAE 143.73 ETE 193.17 ZAC 83.95 ETC 165.97 CLP 22.01

PLANETOCENTRIC CONIC

C3 136.460 VHL 11.682 DLA 16.17 RAL 22.24 RAD 6570.5 VEL 16.056 PTH 2.83 VHP 19.915 DPA -6.48 RAP 351.23 ECC 3.2458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 24 3195.76 -26.15 110.45 284.02 78.73 5 46 40 2595.8 -27.44 102.02
 90.00 21 11 14 4783.39 17.68 205.73 271.06 67.51 22 30 57 4183.4 14.47 198.51
 100.00 6 23 46 2904.30 -27.98 89.41 284.42 79.01 7 12 11 2304.3 -29.21 80.82
 100.00 22 23 32 4550.07 19.39 187.81 270.30 66.80 23 39 22 3950.1 16.09 180.58
 110.00 7 52 3 2628.12 -32.78 69.48 285.47 79.73 8 35 51 2028.1 -33.85 60.41
 110.00 23 11 45 4399.02 23.85 174.20 268.14 64.76 24 25 4 3799.0 20.25 166.91

DIFFERENTIAL CORRECTIONS

TDE -.7047 TRA-1.8123 TC3 -.1451 BAU .2698
 RDE -.8659 RRA .3453 RC3 -.0288 FAU .01382
 FDE .4286 FRA .7984 FC3 -.0877 BSP 2988
 BDE 1.1164 BRA 1.8449 BC3 .1479 FSP -100

MID-COURSE EXECUTION ACCURACY

SGT 1044.5 SGR 464.7 SG3 43.4
 RRT .0132 RRF -.0156 RTF -.7253
 SGB 1143.2 R23 -.0037 R13 -.7253
 SG1 1044.5 SG2 464.7 THA .42

ORBIT DETERMINATION ACCURACY

ST 443.5 SR 428.0 SS 418.6
 CRT .6962 CRS .7952 CST .9877
 LSA 701.2 MSA 251.5 SSA 14.7
 EL1 567.7 EL2 240.0 ALF 43.54

LAUNCH DATE DEC 18 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 174.288

RL 147.20 LAL .00 LOL 86.14 VL 21.588 GAL 15.08 AZL 86.38 MCA 64.50 SMA 99.25 ECC .53413 INC 3.6191 V1 30.267
 RP 107.52 LAP 3.27 LOP 150.60 VP 33.638 GAP -31.97 AZP 88.44 TAL 165.93 TAP 230.43 RCA 46.24 APO 152.26 V2 35.246
 RC 58.412 GL 6.77 GP .95 ZAL 58.93 ZAP 20.58 ETS 182.81 ZAE 144.76 ETE 194.01 ZAC 85.69 ETC 166.09 CLP 20.56

PLANETOCENTRIC CONIC

C3 124.438 VHL 11.155 DLA 16.88 RAL 22.95 RAD 6570.3 VEL 15.677 PTH 2.79 VHP 19.108 DPA -5.73 RAP 352.87 ECC 3.0479
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 24 3204.23 -26.03 111.04 283.65 78.45 5 42 48 2604.2 -27.37 102.63
 90.00 21 20 53 4739.40 16.51 203.03 270.59 66.66 22 39 52 4139.4 13.21 195.90
 100.00 6 20 22 2910.88 -27.89 89.88 284.07 78.78 7 8 53 2310.9 -29.15 81.31
 100.00 22 32 36 4507.99 18.24 185.22 269.80 65.90 23 47 44 3908.0 14.83 178.08
 110.00 7 49 51 2630.91 -32.75 69.69 285.14 79.61 8 33 42 2030.9 -33.84 60.62
 110.00 23 19 36 4360.72 22.72 171.80 267.55 63.75 24 32 17 3760.7 19.01 164.63

DIFFERENTIAL CORRECTIONS

TDE -.7055 TRA-1.8136 TC3 -.1502 BAU .2553
 RDE -.8305 RRA .3235 RC3 -.0316 FAU .01413
 FDE .4452 FRA .8250 FC3 -.0983 BSP 3183
 BDE 1.0897 BRA 1.8422 BC3 .1535 FSP -110

MID-COURSE EXECUTION ACCURACY

SGT 1091.4 SGR 465.9 SG3 47.0
 RRT .0180 RRF -.0205 RTF -.7412
 SGB 1186.7 R23 -.0041 R13 -.7412
 SG1 1091.4 SG2 465.8 THA .54

ORBIT DETERMINATION ACCURACY

ST 465.5 SR 429.7 SS 436.8
 CRT .6967 CRS .7970 CST .9874
 LSA 725.7 MSA 255.4 SSA 14.9
 EL1 583.9 EL2 245.7 ALF 41.72

LAUNCH DATE DEC 18 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 180.661

RL 147.20 LAL .00 LOL 86.14 VL 22.052 GAL 14.41 AZL 86.42 MCA 67.75 SMA 100.78 ECC .51082 INC 3.5802 V1 30.267
 RP 107.53 LAP 3.31 LOP 153.85 VP 33.933 GAP -30.50 AZP 88.64 TAL 165.26 TAP 233.01 RCA 49.30 APO 152.26 V2 35.241
 RC 56.605 GL 7.19 GP .99 ZAL 58.13 ZAP 19.15 ETS 183.24 ZAE 145.92 ETE 194.93 ZAC 87.43 ETC 166.19 CLP 19.13

PLANETOCENTRIC CONIC

C3 113.516 VHL 10.654 DLA 17.58 RAL 23.60 RAD 6570.2 VEL 15.325 PTH 2.74 VHP 18.329 DPA -4.97 RAP 354.52 ECC 2.8682
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 6 3212.19 -25.92 111.60 283.16 78.19 5 38 38 2612.2 -27.29 103.20
 90.00 21 30 23 4694.67 15.28 200.31 270.08 65.87 22 48 38 4094.7 11.90 193.27
 100.00 6 16 41 2916.84 -27.81 90.31 283.59 78.57 7 5 18 2316.8 -29.10 81.74
 100.00 22 41 29 4465.25 17.03 182.62 269.25 65.06 23 55 54 3865.2 13.53 175.58
 110.00 7 47 25 2632.97 -32.72 69.85 284.69 79.52 8 31 18 2033.0 -33.82 60.78
 110.00 23 27 14 4321.89 21.53 169.41 266.92 62.79 24 39 16 3721.9 17.71 162.37

DIFFERENTIAL CORRECTIONS

TDE -.7067 TRA-1.8137 TC3 -.1545 BAU .2403
 RDE -.7955 RRA .3021 RC3 -.0346 FAU .01448
 FDE .4628 FRA .8524 FC3 -.1104 BSP 3382
 BDE 1.0640 BRA 1.8387 BC3 .1584 FSP -121

MID-COURSE EXECUTION ACCURACY

SGT 1140.0 SGR 466.3 SG3 51.0
 RRT .0236 RRF -.0260 RTF -.7564
 SGB 1231.7 R23 -.0046 R13 -.7565
 SG1 1140.0 SG2 466.2 THA .66

ORBIT DETERMINATION ACCURACY

ST 488.6 SR 430.8 SS 455.7
 CRT .6979 CRS .7992 CST .9872
 LSA 751.6 MSA 258.6 SSA 15.0
 EL1 601.2 EL2 250.8 ALF 39.88

LAUNCH DATE DEC 18 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 187.093

RL 147.20 LAL .00 LOL 86.14 VL 22.486 GAL 13.75 AZL 86.46 MCA 70.99 SMA 102.28 ECC .48836 INC 3.5431 V1 30.267
 RP 107.55 LAP 3.35 LOP 157.10 VP 34.211 GAP -29.10 AZP 88.84 TAL 164.62 TAP 235.61 RCA 52.33 APO 152.23 V2 35.235
 RC 54.864 GL 7.62 GP 1.03 ZAL 57.39 ZAP 17.73 ETS 183.72 ZAE 147.22 ETE 195.95 ZAC 89.19 ETC 166.28 CLP 17.70

PLANETOCENTRIC CONIC

C3 103.593 VML 10.178 CLA 18.26 RAL 24.20 RAD 6570.0 VEL 14.998 PTH 2.70 VHP 17.575 DPA -4.19 RAP 356.17 ECC 2.7049
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 40 28 3219.72 -25.82 112.12 282.55 77.95 5 34 8 2619.7 -27.22 103.74
 90.00 21 39 45 4649.17 14.00 197.59 269.52 65.13 22 57 15 4049.2 10.53 190.63
 100.00 6 12 42 2922.27 -27.74 90.69 283.00 78.38 7 1 25 2322.3 -29.06 82.14
 100.00 22 50 12 4421.85 15.77 180.01 268.65 64.27 24 3 54 3821.8 12.18 173.06
 110.00 7 44 44 2634.34 -32.71 69.95 284.13 79.46 8 28 38 2034.3 -33.81 60.89
 110.00 23 34 40 4282.54 20.29 167.04 266.24 61.88 24 46 2 3682.5 16.37 160.11

DIFFERENTIAL CORRECTIONS

TDE -.7108 TRA-1.8149 TC3 -.1591 BAU .2265
 RDE -.7609 RRA .2811 RC3 -.0378 FAU .01485
 FDE .4817 FRA .8808 FC3 -.1241 BSP 3525
 BDE 1.0413 BRA 1.8365 BC3 .1635 FSP -132

MID-COURSE EXECUTION ACCURACY

SGT 1192.7 SGR 466.0 SG3 55.3
 RRT .0308 RRF -.0326 RTF -.7706
 SGB 1280.5 R23 -.0046 R13 -.7707
 SG1 1192.8 SG2 465.7 THA .81

ORBIT DETERMINATION ACCURACY

ST 514.2 SR 431.3 SS 475.7
 CRT .7003 CRS .8017 CST .9871
 LSA 779.9 MSA 261.1 SSA 15.2
 EL1 620.8 EL2 255.0 ALF 37.92

LAUNCH DATE DEC 18 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 193.580

RL 147.20 LAL .00 LOL 86.14 VL 22.892 GAL 13.12 AZL 86.49 MCA 74.23 SMA 103.75 ECC .46677 INC 3.5074 V1 30.267
 RP 107.57 LAP 3.38 LOP 160.35 VP 34.473 GAP -27.75 AZP 89.05 TAL 164.02 TAP 238.25 RCA 55.32 APO 152.18 V2 35.229
 RC 53.197 GL 8.06 GP 1.08 ZAL 56.71 ZAP 16.32 ETS 184.29 ZAE 148.65 ETE 197.09 ZAC 90.94 ETC 166.36 CLP 16.28

PLANETOCENTRIC CONIC

C3 94.573 VML 9.725 DLA 18.93 RAL 24.73 RAD 6569.8 VEL 14.694 PTH 2.66 VHP 16.846 DPA -3.41 RAP 357.82 ECC 2.5564
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 35 30 3226.91 -25.71 112.62 281.84 77.72 5 29 17 2626.9 -27.15 104.25
 90.00 21 49 1 4602.90 12.66 194.86 268.91 64.46 23 5 44 4002.9 9.12 187.97
 100.00 6 8 26 2927.24 -27.67 91.05 282.31 78.21 6 57 13 2327.2 -29.01 82.50
 100.00 22 58 46 4377.81 14.45 177.41 268.01 63.55 24 11 44 3777.8 10.78 170.54
 110.00 7 41 48 2635.09 -32.70 70.01 283.46 79.43 8 25 43 2035.1 -33.81 60.95
 110.00 23 41 53 4242.71 18.99 164.68 265.52 61.03 24 52 35 3642.7 14.98 157.85

DIFFERENTIAL CORRECTIONS

TDE -.7133 TRA-1.8123 TC3 -.1618 BAU .2111
 RDE -.7269 RRA .2605 RC3 -.0411 FAU .01527
 FDE .5015 FRA .9099 FC3 -.1398 BSP 3728
 BDE 1.0184 BRA 1.8310 BC3 .1670 FSP -146

MID-COURSE EXECUTION ACCURACY

SGT 1245.0 SGR 464.9 SG3 60.0
 RRT .0380 RRF -.0397 RTF -.7844
 SGB 1329.0 R23 -.0050 R13 -.7845
 SG1 1245.1 SG2 464.5 THA .95

ORBIT DETERMINATION ACCURACY

ST 539.8 SR 431.0 SS 496.3
 CRT .7028 CRS .8045 CST .9870
 LSA 808.8 MSA 263.0 SSA 15.3
 EL1 640.6 EL2 258.4 ALF 36.05

LAUNCH DATE DEC 18 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 200.115

RL 147.20 LAL .00 LOL 86.14 VL 23.272 GAL 12.52 AZL 86.53 MCA 77.48 SMA 105.19 ECC .44605 INC 3.4728 V1 30.267
 RP 107.59 LAP 3.39 LOP 163.60 VP 34.719 GAP -26.46 AZP 89.25 TAL 163.44 TAP 240.92 RCA 58.27 APO 152.11 V2 35.222
 RC 51.611 GL 8.52 GP 1.13 ZAL 56.10 ZAP 14.91 ETS 184.96 ZAE 150.24 ETE 198.38 ZAC 92.70 ETC 166.41 CLP 14.87

PLANETOCENTRIC CONIC

C3 86.375 VML 9.294 DLA 19.60 RAL 25.21 RAD 6569.7 VEL 14.413 PTH 2.62 VHP 16.141 DPA -2.61 RAP 359.47 ECC 2.4215
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 10 3233.87 -25.61 113.11 281.02 77.49 5 24 4 2633.9 -27.08 104.75
 90.00 21 58 10 4555.88 11.26 192.11 268.26 63.85 23 14 6 3955.9 7.65 185.28
 100.00 6 3 50 2931.83 -27.60 91.37 281.50 78.05 6 52 41 2331.8 -28.97 82.84
 100.00 23 7 11 4333.14 13.08 174.80 267.32 62.88 24 19 24 3733.1 9.34 168.01
 110.00 7 38 37 2635.29 -32.70 70.02 282.67 79.42 8 22 32 2035.3 -33.81 60.96
 110.00 23 48 53 4202.45 17.65 162.33 264.76 60.24 24 58 56 3602.5 13.55 155.61

DIFFERENTIAL CORRECTIONS

TDE -.7160 TRA-1.8081 TC3 -.1635 BAU .1956
 RDE -.6935 RRA .2403 RC3 -.0446 FAU .01575
 FDE .5225 FRA .9400 FC3 -.1579 BSP 3933
 BDE .9968 BRA 1.8240 BC3 .1694 FSP -160

MID-COURSE EXECUTION ACCURACY

SGT 1298.9 SGR 463.0 SG3 65.1
 RRT .0462 RRF -.0477 RTF -.7975
 SGB 1379.0 R23 -.0055 R13 -.7976
 SG1 1299.1 SG2 462.5 THA 1.08

ORBIT DETERMINATION ACCURACY

ST 566.5 SR 430.1 SS 517.9
 CRT .7058 CRS .8076 CST .9869
 LSA 839.2 MSA 264.1 SSA 15.5
 EL1 661.8 EL2 260.8 ALF 34.22

LAUNCH DATE DEC 18 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 206.694

RL 147.20 LAL .00 LOL 86.14 VL 23.626 GAL 11.94 AZL 86.56 MCA 80.72 SMA 106.60 ECC .42620 INC 3.4391 V1 30.267
 RP 107.61 LAP 3.39 LOP 166.84 VP 34.950 GAP -25.22 AZP 89.44 TAL 162.90 TAP 243.62 RCA 61.17 APO 152.03 V2 35.215
 RC 50.116 GL 8.98 GP 1.19 ZAL 55.54 ZAP 13.51 ETS 185.77 ZAE 151.96 ETE 199.86 ZAC 94.46 ETC 166.45 CLP 13.46

PLANETOCENTRIC CONIC

C3 78.924 VML 8.884 DLA 20.25 RAL 25.63 RAD 6569.5 VEL 14.152 PTH 2.58 VHP 15.459 DPA -1.81 RAP 361.12 ECC 2.2989
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 27 3240.71 -25.51 113.58 280.09 77.28 5 18 28 2640.7 -27.01 105.24
 90.00 22 7 13 4508.09 9.81 189.34 267.56 63.30 23 22 22 3908.1 6.15 182.58
 100.00 5 58 54 2936.14 -27.54 91.68 280.59 77.90 6 47 50 2336.1 -28.93 83.15
 100.00 23 15 27 4287.89 11.66 172.19 266.60 62.28 24 26 55 3687.9 7.86 165.46
 110.00 7 35 9 2634.99 -32.70 70.00 281.78 79.43 8 19 4 2035.0 -33.81 60.94
 110.00 23 55 41 4161.81 16.26 160.00 263.96 59.51 25 5 3 3561.8 12.09 153.37

DIFFERENTIAL CORRECTIONS

TDE -.7192 TRA-1.8022 TC3 -.1636 BAU .1799
 RDE -.6608 RRA .2207 RC3 -.0481 FAU .01628
 FDE .5451 FRA .9713 FC3 -.1786 BSP 4149
 BDE .9767 BRA 1.8156 BC3 .1705 FSP -176

MID-COURSE EXECUTION ACCURACY

SGT 1354.4 SGR 460.4 SG3 70.7
 RRT .0554 RRF -.0568 RTF -.8100
 SGB 1430.5 R23 -.0061 R13 -.8100
 SG1 1354.7 SG2 459.6 THA 1.22

ORBIT DETERMINATION ACCURACY

ST 594.4 SR 428.6 SS 540.6
 CRT .7096 CRS .8110 CST .9869
 LSA 871.2 MSA 264.5 SSA 15.6
 EL1 684.3 EL2 262.4 ALF 32.43

LAUNCH DATE DEC 18 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 213.311

RL 147.20 LAL .00 LOL 86.14 VL 23.958 GAL 11.38 AZL 86.59 MCA 83.96 SMA 107.96 ECC .40724 INC 3.4061 V1 30.267
 RP 107.64 LAP 3.39 LOP 170.09 VP 35.167 GAP -24.03 AZP 89.64 TAL 162.40 TAP 246.36 RCA 64.00 APO 151.93 V2 35.207
 RC 48.721 GL 9.46 GP 1.25 ZAL 55.05 ZAP 12.11 ETS 186.76 ZAE 153.83 ETE 201.58 ZAC 96.22 ETC 166.47 CLP 12.05

PLANETOCENTRIC CONIC

C3 72.153 VML 8.494 CLA 20.89 RAL 25.99 RAD 6569.4 VEL 13.911 PTH 2.54 VHP 14.800 DPA -1.00 RAP 2.76 ECC 2.1875
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 20 3247.56 -25.41 114.06 279.06 77.06 5 12 28 2647.6 -26.94 105.72
 90.00 22 16 13 4459.57 8.32 186.56 266.84 62.83 23 30 32 3059.6 4.61 179.85
 100.00 5 53 38 2940.27 -27.48 91.97 279.58 77.75 6 42 38 2340.3 -28.89 83.45
 100.00 23 23 36 4242.09 10.20 169.58 265.83 61.75 24 34 18 3642.1 6.34 162.91
 110.00 7 31 26 2634.27 -32.71 69.95 280.79 79.46 8 15 21 2034.3 -33.82 60.89
 110.00 0 6 13 4120.85 14.83 157.68 263.13 58.84 1 14 54 3520.9 10.59 151.14

DIFFERENTIAL CORRECTIONS

TDE -.7230 TRA-1.7946 TC3 -.1621 BAU .1641
 RDE -.6288 RRA .2016 RC3 -.0516 FAU .01687
 FDE .5694 FRA 1.0039 FC3 -.2024 BSP 4363
 BDE .9582 BRA 1.8059 BC3 .1701 FSP -194

MID-COURSE EXECUTION ACCURACY

SGT 1411.5 SGR 456.9 SG3 76.8
 RRT .0657 RRF -.0670 RTF -.8218
 SGB 1483.6 R23 -.0067 R13 -.8218
 SGI 1411.9 SG2 455.8 THA 1.36

ORBIT DETERMINATION ACCURACY

ST 623.7 SR 426.4 SS 564.5
 CRT .7141 CRS .8148 CST .9869
 LSA 905.2 MSA 264.1 SSA 15.7
 EL1 708.3 EL2 262.8 ALF 30.69

LAUNCH DATE DEC 18 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 219.962

RL 147.20 LAL .00 LOL 86.14 VL 24.267 GAL 10.84 AZL 86.63 MCA 87.19 SMA 109.29 ECC .38914 INC 3.3734 V1 30.267
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.370 GAP -22.89 AZP 89.83 TAL 161.94 TAP 249.13 RCA 66.76 APO 151.82 V2 35.198
 RC 47.437 GL 9.94 GP 1.32 ZAL 54.63 ZAP 10.72 ETS 188.02 ZAE 155.84 ETE 203.62 ZAC 97.97 ETC 166.46 CLP 10.64

PLANETOCENTRIC CONIC

C3 66.002 VML 8.124 CLA 21.52 RAL 26.29 RAD 6569.3 VEL 13.688 PTH 2.50 VHP 14.162 DPA -.18 RAP 4.40 ECC 2.0862
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 48 3254.55 -25.30 114.54 277.93 76.84 5 6 2 2654.5 -26.86 106.22
 90.00 22 25 9 4410.32 6.77 183.77 266.07 62.44 23 38 39 3810.3 3.03 177.09
 100.00 5 48 1 2944.30 -27.42 92.26 278.47 77.61 6 37 5 2344.3 -28.85 83.74
 100.00 23 31 37 4195.79 8.69 166.96 265.04 61.29 24 41 33 3595.8 4.80 160.35
 110.00 7 27 27 2633.21 -32.72 69.87 279.71 79.51 8 11 20 2033.2 -33.82 60.80
 110.00 0 12 36 4079.65 13.36 155.39 262.26 58.24 1 20 36 3479.7 9.07 148.92

DIFFERENTIAL CORRECTIONS

TDE -.7270 TRA-1.7851 TC3 -.1585 BAU .1481
 RDE -.5977 RRA .1831 RC3 -.0552 FAU .01753
 FDE .5955 FRA 1.0380 FC3 -.2299 BSP 4587
 BDE .9412 BRA 1.7945 BC3 .1679 FSP -214

MID-COURSE EXECUTION ACCURACY

SGT 1469.9 SGR 452.7 SG3 83.6
 RRT .0773 RRF -.0784 RTF -.8330
 SGB 1538.1 R23 -.0074 R13 -.8330
 SGI 1470.4 SG2 451.2 THA 1.51

ORBIT DETERMINATION ACCURACY

ST 654.1 SR 423.6 SS 589.7
 CRT .7192 CRS .8190 CST .9870
 LSA 941.0 MSA 262.9 SSA 15.8
 EL1 733.8 EL2 262.3 ALF 29.03

LAUNCH DATE DEC 18 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 226.642

RL 147.20 LAL .00 LOL 86.14 VL 24.555 GAL 10.32 AZL 86.66 MCA 90.43 SMA 110.57 ECC .37190 INC 3.3410 V1 30.267
 RP 107.69 LAP 3.34 LOP 176.57 VP 35.559 GAP -21.78 AZP 90.03 TAL 161.52 TAP 251.94 RCA 69.45 APO 151.69 V2 35.189
 RC 46.274 GL 10.44 GP 1.40 ZAL 54.26 ZAP 9.33 ETS 189.67 ZAE 157.97 ETE 206.08 ZAC 99.71 ETC 166.44 CLP 9.22

PLANETOCENTRIC CONIC

C3 60.414 VML 7.773 CLA 22.14 RAL 26.53 RAD 6569.1 VEL 13.482 PTH 2.46 VHP 13.545 DPA .64 RAP 6.02 ECC 1.9943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 49 3261.81 -25.19 115.04 276.72 76.61 4 59 11 2661.8 -26.78 106.74
 90.00 22 34 3 4360.36 5.19 180.95 265.28 62.12 23 46 43 3760.4 1.42 174.30
 100.00 5 42 2 2948.35 -27.36 92.54 277.27 77.48 6 31 10 2348.3 -28.82 84.04
 100.00 23 39 31 4149.06 7.16 164.35 264.20 60.90 24 48 40 3549.1 3.22 157.77
 110.00 7 23 12 2631.87 -32.74 69.77 278.53 79.57 8 7 4 2031.9 -33.83 60.70
 110.00 0 18 46 4038.31 11.87 153.12 261.37 57.71 1 26 5 3438.3 7.52 146.72

DIFFERENTIAL CORRECTIONS

TDE -.7317 TRA-1.7738 TC3 -.1529 BAU .1322
 RDE -.5674 RRA .1650 RC3 -.0587 FAU .01826
 FDE .6238 FRA 1.0736 FC3 -.2616 BSP 4809
 BDE .9260 BRA 1.7815 BC3 .1637 FSP -235

MID-COURSE EXECUTION ACCURACY

SGT 1529.8 SGR 447.8 SG3 90.9
 RRT .0903 RRF -.0913 RTF -.8435
 SGB 1594.0 R23 -.0081 R13 -.8436
 SGI 1530.4 SG2 445.8 THA 1.66

ORBIT DETERMINATION ACCURACY

ST 685.8 SR 420.1 SS 616.2
 CRT .7252 CRS .8235 CST .9871
 LSA 978.9 MSA 260.9 SSA 15.9
 EL1 760.8 EL2 260.8 ALF 27.44

LAUNCH DATE DEC 18 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 233.347

RL 147.20 LAL .00 LOL 86.14 VL 24.824 GAL 9.83 AZL 86.69 MCA 93.66 SMA 111.81 ECC .35551 INC 3.3086 V1 30.267
 RP 107.72 LAP 3.30 LOP 179.81 VP 35.736 GAP -20.72 AZP 90.21 TAL 161.13 TAP 254.80 RCA 72.06 APO 151.56 V2 35.179
 RC 45.244 GL 10.94 GP 1.48 ZAL 53.96 ZAP 7.94 ETS 191.93 ZAE 160.21 ETE 209.12 ZAC 101.44 ETC 166.39 CLP 7.80

PLANETOCENTRIC CONIC

C3 55.341 VML 7.439 CLA 22.74 RAL 26.71 RAD 6569.0 VEL 13.293 PTH 2.43 VHP 12.948 DPA 1.47 RAP 7.63 ECC 1.9108
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 23 3269.50 -25.06 115.57 275.41 76.37 4 51 52 2669.5 -26.69 107.28
 90.00 22 42 56 4309.72 3.57 178.11 264.45 61.89 23 54 45 3709.7 -.21 171.47
 100.00 5 35 42 2952.50 -27.30 92.83 275.99 77.33 6 24 54 2352.5 -28.77 84.34
 100.00 23 47 18 4101.96 5.59 161.73 263.34 60.59 24 55 40 3502.0 1.63 155.18
 110.00 7 18 41 2630.31 -32.76 69.65 277.28 79.63 8 2 31 2030.3 -33.84 60.58
 110.00 0 24 44 3996.92 10.36 150.87 260.44 57.24 1 31 21 3396.9 5.97 144.53

DIFFERENTIAL CORRECTIONS

TDE -.7370 TRA-1.7608 TC3 -.1445 BAU .1163
 RDE -.5381 RRA .1476 RC3 -.0620 FAU .01907
 FDE .6546 FRA 1.1113 FC3 -.2983 BSP 5035
 BDE .9126 BRA 1.7669 BC3 .1572 FSP -259

MID-COURSE EXECUTION ACCURACY

SGT 1590.8 SGR 442.1 SG3 99.0
 RRT .1051 RRF -.1060 RTF -.8535
 SGB 1651.1 R23 -.0089 R13 -.8536
 SGI 1591.6 SG2 439.5 THA 1.81

ORBIT DETERMINATION ACCURACY

ST 718.9 SR 416.1 SS 644.5
 CRT .7320 CRS .8286 CST .9873
 LSA 1019.1 MSA 258.2 SSA 16.0
 EL1 789.6 EL2 258.2 ALF 25.94

LAUNCH DATE DEC 18 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 240.072

RL 147.20 LAL .00 LOL 86.14 VL 25.075 GAL 9.35 AZL 86.72 HCA 96.89 SMA 113.00 ECC .33996 INC 3.2759 VI 30.267
 RP 107.75 LAP 3.25 LOP 183.05 VP 35.901 GAP -19.70 AZP 90.39 TAL 160.79 TAP 257.69 RCA 74.59 APO 151.42 V2 35.169
 RC 44.357 GL 11.45 GP 1.58 ZAL 53.72 ZAP 6.56 ETS 195.19 ZAE 162.52 ETE 213.01 ZAC 103.15 ETC 166.32 CLP 6.37

PLANETOCENTRIC CONIC

C3 50.737 VHL 7.123 CLA 23.33 RAL 26.84 RAD 6568.9 VEL 13.119 PTH 2.40 VHP 12.371 DPA 2.30 RAP 9.23 ECC 1.8350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 49 27 3277.77 -24.93 116.14 274.03 76.12 4 44 5 2677.8 -26.60 107.87
 90.00 22 51 49 4258.42 1.92 175.24 263.60 61.74 24 2 48 3658.4 -1.87 168.61
 100.00 5 28 59 2956.85 -27.24 93.14 274.64 77.18 6 18 16 2356.9 -28.73 84.66
 100.00 23 54 58 4054.57 4.00 159.11 262.45 60.35 25 2 33 3454.6 .02 152.58
 110.00 7 13 55 2628.59 -32.78 69.52 275.95 79.71 7 57 43 2028.6 -33.85 60.45
 110.00 0 30 28 3955.60 8.83 148.65 259.48 56.84 1 36 24 3355.6 4.40 142.35

DIFFERENTIAL CORRECTIONS

TDE -.7454 TRA-1.7485 TC3 -.1354 BAU .1019
 RDE -.5099 RRA .1306 RC3 -.0651 FAU .01994
 FDE .6888 FRA 1.1518 FC3 -.3402 BSP 5202
 BOE .9032 BRA 1.7534 BC3 .1503 FSP -284

MID-COURSE EXECUTION ACCURACY

SGT 1656.2 SGR 435.8 SG3 107.9
 RRT .1228 RRF -.1229 RTF -.8626
 SGB 1712.6 R23 -.0093 R13 -.8627
 SG1 1657.2 SG2 432.3 THA 1.99

ORBIT DETERMINATION ACCURACY

ST 755.5 SR 411.6 SS 675.0
 CRT .7403 CRS .8341 CST .9877
 LSA 1063.4 MSA 254.5 SSA 16.1
 EL1 821.9 EL2 254.4 ALF 24.46

LAUNCH DATE DEC 18 1968

FLIGHT TIME 104.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 246.813

RL 147.20 LAL .00 LOL 86.14 VL 25.309 GAL 8.90 AZL 86.76 HCA 100.12 SMA 114.15 ECC .32522 INC 3.2428 VI 30.267
 RP 107.79 LAP 3.19 LOP 186.28 VP 36.054 GAP -18.72 AZP 90.57 TAL 160.49 TAP 260.62 RCA 77.02 APO 151.27 V2 35.158
 RC 43.625 GL 11.96 GP 1.68 ZAL 53.54 ZAP 5.20 ETS 200.28 ZAE 164.86 ETE 218.11 ZAC 104.84 ETC 166.23 CLP 4.92

PLANETOCENTRIC CONIC

C3 46.559 VHL 6.823 CLA 23.91 RAL 26.90 RAD 6568.7 VEL 12.958 PTH 2.36 VHP 11.814 DPA 3.13 RAP 10.81 ECC 1.7662
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 41 1 3286.76 -24.78 116.76 272.57 75.84 4 35 48 2686.8 -26.49 108.51
 90.00 23 0 45 4206.48 .25 172.34 262.72 61.68 24 10 51 3606.5 -3.54 165.71
 100.00 5 21 55 2961.47 -27.17 93.47 273.21 77.03 6 11 16 2361.5 -28.68 84.99
 100.00 0 6 28 4007.00 2.39 156.49 261.53 60.19 1 13 15 3407.0 -1.59 149.97
 110.00 7 8 54 2626.74 -32.80 69.38 274.54 79.79 7 52 41 2026.7 -33.86 60.30
 110.00 0 35 58 3914.49 7.29 146.46 258.50 56.51 1 41 13 3314.5 2.83 140.20

DIFFERENTIAL CORRECTIONS

TDE -.7491 TRA-1.7294 TC3 -.1192 BAU .0854
 RDE -.4827 RRA .1142 RC3 -.0678 FAU .02096
 FDE .7249 FRA 1.1936 FC3 -.3898 BSP 5490
 BOE .8912 BRA 1.7331 BC3 .1372 FSP -314

MID-COURSE EXECUTION ACCURACY

SGT 1716.2 SGR 428.8 SG3 117.7
 RRT .1405 RRF -.1411 RTF -.8717
 SGB 1769.0 R23 -.0108 R13 -.8719
 SG1 1717.3 SG2 424.3 THA 2.14

ORBIT DETERMINATION ACCURACY

ST 789.2 SR 406.6 SS 706.4
 CRT .7480 CRS .8399 CST .9879
 LSA 1106.4 MSA 250.4 SSA 16.1
 EL1 851.8 EL2 250.0 ALF 23.19

LAUNCH DATE DEC 18 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 253.566

RL 147.20 LAL .00 LOL 86.14 VL 25.527 GAL 8.47 AZL 86.79 HCA 103.35 SMA 115.24 ECC .31128 INC 3.2090 VI 30.267
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.196 GAP -17.77 AZP 90.74 TAL 160.24 TAP 263.59 RCA 79.37 APO 151.12 V2 35.147
 RC 43.055 GL 12.48 GP 1.80 ZAL 53.42 ZAP 3.90 ETS 209.04 ZAE 167.15 ETE 225.08 ZAC 106.51 ETC 166.10 CLP 3.45

PLANETOCENTRIC CONIC

C3 42.770 VHL 6.540 CLA 24.47 RAL 26.90 RAD 6568.6 VEL 12.812 PTH 2.33 VHP 11.275 DPA 3.97 RAP 12.37 ECC 1.7039
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 4 3296.65 -24.62 117.44 271.04 75.54 4 27 1 2696.6 -26.36 109.20
 90.00 23 9 44 4153.90 -1.45 169.41 261.82 61.72 24 18 58 3553.9 -5.22 162.76
 100.00 5 14 29 2966.43 -27.09 93.82 271.72 76.86 6 3 56 2366.4 -28.63 85.35
 100.00 0 13 56 3959.35 .78 153.88 260.58 60.12 1 19 55 3359.3 -3.20 147.35
 110.00 7 3 41 2624.81 -32.82 69.23 273.08 79.87 7 47 25 2024.8 -33.87 60.15
 110.00 0 41 14 3873.74 5.75 144.30 257.49 56.25 1 45 47 3273.7 1.28 138.07

DIFFERENTIAL CORRECTIONS

TDE -.7558 TRA-1.7111 TC3 -.1014 BAU .0705
 RDE -.4567 RRA .0983 RC3 -.0701 FAU .02208
 FDE .7650 FRA 1.2390 FC3 -.4468 BSP 5712
 BOE .8831 BRA 1.7139 BC3 .1232 FSP -346

MID-COURSE EXECUTION ACCURACY

SGT 1780.0 SGR 421.3 SG3 128.5
 RRT .1617 RRF -.1623 RTF -.8801
 SGB 1829.2 R23 -.0120 R13 -.8802
 SG1 1781.4 SG2 415.4 THA 2.32

ORBIT DETERMINATION ACCURACY

ST 826.2 SR 401.1 SS 740.3
 CRT .7571 CRS .8462 CST .9883
 LSA 1153.7 MSA 245.6 SSA 16.2
 EL1 885.3 EL2 244.6 ALF 21.94

LAUNCH DATE DEC 18 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 260.327

RL 147.20 LAL .00 LOL 86.14 VL 25.729 GAL 8.05 AZL 86.83 HCA 106.58 SMA 116.29 ECC .29812 INC 3.1744 VI 30.267
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.328 GAP -16.85 AZP 90.91 TAL 160.03 TAP 266.61 RCA 81.62 APO 150.96 V2 35.135
 RC 42.657 GL 13.00 GP 1.94 ZAL 53.36 ZAP 2.76 ETS 226.10 ZAE 169.27 ETE 234.89 ZAC 108.15 ETC 165.95 CLP 1.97

PLANETOCENTRIC CONIC

C3 39.335 VHL 6.272 CLA 25.00 RAL 26.85 RAD 6568.5 VEL 12.677 PTH 2.30 VHP 10.754 DPA 4.81 RAP 13.91 ECC 1.6473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 33 3307.60 -24.43 118.18 269.45 75.22 4 17 41 2707.6 -26.22 109.97
 90.00 23 18 49 4100.70 -3.16 166.44 260.90 61.85 24 27 10 3500.7 -6.90 159.76
 100.00 5 6 43 2971.77 -27.01 94.19 270.17 76.68 5 56 15 2371.8 -28.57 85.74
 100.00 0 21 16 3911.75 -.84 151.27 259.61 60.12 1 26 28 3311.8 -4.81 144.73
 110.00 6 58 16 2622.79 -32.85 69.08 271.56 79.96 7 41 59 2022.8 -33.88 60.00
 110.00 0 46 13 3835.50 4.23 142.19 256.46 56.05 1 50 7 3233.5 -.26 135.98

DIFFERENTIAL CORRECTIONS

TDE -.7626 TRA-1.6909 TC3 -.0795 BAU .0563
 RDE -.4319 RRA .0829 RC3 -.0717 FAU .02331
 FDE .8091 FRA 1.2874 FC3 -.5131 BSP 5947
 BOE .8764 BRA 1.6929 BC3 .1071 FSP -382

MID-COURSE EXECUTION ACCURACY

SGT 1844.0 SGR 413.2 SG3 140.5
 RRT .1856 RRF -.1864 RTF -.8879
 SGB 1889.8 R23 -.0135 R13 -.8881
 SG1 1845.7 SG2 405.7 THA 2.50

ORBIT DETERMINATION ACCURACY

ST 864.2 SR 395.3 SS 776.4
 CRT .7670 CRS .8530 CST .9887
 LSA 1203.3 MSA 240.1 SSA 16.2
 EL1 920.0 EL2 238.3 ALF 20.79

LAUNCH DATE DEC 18 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 267.094

RL 147.20 LAL .00 LOL 86.14 VL 25.917 GAL 7.66 AZL 86.86 MCA 109.80 SMA 117.29 ECC .28572 INC 3.1386 V1 30.267
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.450 GAP -15.97 AZP 91.06 TAL 159.86 TAP 269.66 RCA 83.78 APO 150.80 V2 35.123
 RC 42.436 GL 13.51 GP 2.09 ZAL 53.35 ZAP 2.13 ETS 259.29 ZAE 171.01 ETE 248.87 ZAC 109.76 ETC 165.77 CLP .46

PLANETOCENTRIC CONIC

C3 36.222 VHL 6.018 DLA 25.52 RAL 26.74 RAD 6568.4 VEL 12.554 PTH 2.27 VHP 10.251 OPA 5.65 RAP 15.41 ECC 1.5961
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 12 29 3319.78 -24.21 119.01 267.80 74.85 4 7 48 2719.8 -26.06 110.83
 90.00 23 28 3 4046.85 -4.89 163.42 259.97 62.07 24 35 29 3446.8 -8.59 156.69
 100.00 4 58 39 2977.49 -26.92 94.59 268.57 76.48 5 48 16 2377.5 -28.51 86.15
 100.00 0 28 29 3864.37 -2.44 148.66 258.62 60.20 1 32 54 3264.4 -6.39 142.10
 110.00 6 52 42 2620.66 -32.87 68.92 270.00 80.05 7 36 23 2020.7 -33.90 59.83
 110.00 0 50 56 3793.97 2.72 140.12 255.41 55.91 1 54 10 3194.0 -1.77 133.91

DIFFERENTIAL CORRECTIONS

TDE -.7712 TRA-1.6698 TC3 -.0558 BAU .0443
 RDE -.4083 RRA .0679 RC3 -.0726 FAU .02469
 FDE .8577 FRA 1.3397 FC3 -.5901 BSP 6102
 BOE .8726 BRA 1.6712 BC3 .0916 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 1909.5 SGR 404.8 SG3 153.8
 RRT .2136 RRF -.2139 RTF -.8947
 SGB 1952.0 R23 -.0146 R13 -.8949
 SGI 1911.6 SG2 395.0 TMA 2.71

ORBIT DETERMINATION ACCURACY

ST 904.6 SR 389.3 SS 815.1
 CRT .7781 CRS .8603 CST .9892
 LSA 1256.7 MSA 233.8 SSA 16.3
 EL1 957.3 EL2 231.1 ALF 19.71

LAUNCH DATE DEC 18 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 273.863

RL 147.20 LAL .00 LOL 86.14 VL 26.091 GAL 7.28 AZL 86.90 MCA 113.02 SMA 118.24 ECC .27404 INC 3.1013 V1 30.267
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.562 GAP -15.12 AZP 91.21 TAL 159.74 TAP 272.76 RCA 85.83 APO 150.64 V2 35.111
 RC 42.394 GL 14.02 GP 2.25 ZAL 53.40 ZAP 2.50 ETS 297.43 ZAE 172.08 ETE 267.70 ZAC 111.33 ETC 165.56 CLP -1.08

PLANETOCENTRIC CONIC

C3 33.403 VHL 5.780 DLA 26.01 RAL 26.58 RAD 6568.3 VEL 12.441 PTH 2.25 VHP 9.765 OPA 6.49 RAP 16.89 ECC 1.5497
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 1 48 3333.39 -23.97 119.93 266.11 74.45 3 57 21 2733.4 -25.87 111.78
 90.00 23 37 27 3992.33 -6.62 160.35 259.03 62.40 24 43 59 3392.3 -10.26 153.56
 100.00 4 50 19 2983.56 -26.82 95.02 266.93 76.28 5 40 2 2383.6 -28.44 86.59
 100.00 0 35 33 3817.39 -4.03 146.08 257.61 60.36 1 39 10 3217.4 -7.95 139.48
 110.00 6 47 2 2618.36 -32.90 68.74 268.39 80.15 7 30 40 2018.4 -33.91 59.65
 110.00 0 55 19 3755.35 1.24 138.10 254.33 55.84 1 57 55 3155.4 -3.25 131.90

DIFFERENTIAL CORRECTIONS

TDE -.7773 TRA-1.6454 TC3 -.0229 BAU .0339
 RDE -.3860 RRA .0532 RC3 -.0723 FAU .02623
 FDE .9111 FRA 1.3963 FC3 -.6798 BSP 6409
 BOE .8679 BRA 1.6463 BC3 .0759 FSP -466

MID-COURSE EXECUTION ACCURACY

SGT 1972.0 SGR 396.1 SG3 168.5
 RRT .2439 RRF -.2452 RTF -.9022
 SGB 2011.4 R23 -.0174 R13 -.9024
 SGI 1974.4 SG2 383.7 TMA 2.91

ORBIT DETERMINATION ACCURACY

ST 943.5 SR 383.1 SS 856.2
 CRT .7893 CRS .8680 CST .9896
 LSA 1310.8 MSA 227.4 SSA 16.2
 EL1 993.5 EL2 223.4 ALF 18.75

LAUNCH DATE DEC 18 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 280.631

RL 147.20 LAL .00 LOL 86.14 VL 26.253 GAL 6.92 AZL 86.94 MCA 116.24 SMA 119.13 ECC .26308 INC 3.0623 V1 30.267
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.666 GAP -14.29 AZP 91.36 TAL 159.65 TAP 275.90 RCA 87.79 APO 150.48 V2 35.099
 RC 42.534 GL 14.52 GP 2.45 ZAL 53.50 ZAP 3.61 ETS 319.26 ZAE 172.19 ETE 289.11 ZAC 112.85 ETC 165.31 CLP -2.66

PLANETOCENTRIC CONIC

C3 30.850 VHL 5.554 DLA 26.47 RAL 26.37 RAD 6568.2 VEL 12.338 PTH 2.22 VHP 9.297 OPA 7.34 RAP 18.32 ECC 1.5077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 50 30 3348.62 -23.69 120.96 264.36 74.01 3 46 18 2748.6 -25.65 112.84
 90.00 23 47 5 3937.07 -8.35 157.21 258.08 62.84 24 52 42 3337.1 -11.92 150.36
 100.00 4 41 47 2989.86 -26.72 95.46 265.26 76.07 5 31 36 2389.9 -28.37 87.04
 100.00 0 42 25 3771.06 -5.58 143.52 256.58 60.59 1 45 16 3171.1 -9.46 136.88
 110.00 6 41 19 2615.80 -32.93 68.55 266.76 80.26 7 24 55 2015.8 -33.92 59.45
 110.00 0 59 22 3717.88 -1.19 136.15 253.23 55.82 2 1 20 3117.9 -4.67 129.93

DIFFERENTIAL CORRECTIONS

TDE -.7842 TRA-1.6203 TC3 .0130 BAU .0297
 RDE -.3652 RRA .0389 RC3 -.0708 FAU .02795
 FDE .9698 FRA 1.4577 FC3 -.7844 BSP 6624
 BOE .8650 BRA 1.6208 BC3 .0720 FSP -515

MID-COURSE EXECUTION ACCURACY

SGT 2034.9 SGR 387.4 SG3 184.9
 RRT .2789 RRF -.2810 RTF -.9087
 SGB 2071.5 R23 -.0196 R13 -.9090
 SGI 2037.9 SG2 371.5 TMA 3.14

ORBIT DETERMINATION ACCURACY

ST 983.9 SR 376.9 SS 900.0
 CRT .8013 CRS .8761 CST .9901
 LSA 1368.0 MSA 220.5 SSA 16.2
 EL1 1031.5 EL2 215.1 ALF 17.87

LAUNCH DATE DEC 18 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

DISTANCE 287.396

RL 147.20 LAL .00 LOL 86.14 VL 26.403 GAL 6.58 AZL 86.98 MCA 119.46 SMA 119.98 ECC .25281 INC 3.0210 V1 30.267
 RP 108.01 LAP 2.63 LOP 205.64 VP 36.761 GAP -13.50 AZP 91.49 TAL 159.61 TAP 279.07 RCA 89.65 APO 150.32 V2 35.086
 RC 42.853 GL 15.00 GP 2.66 ZAL 53.64 ZAP 5.03 ETS 330.04 ZAE 171.37 ETE 308.30 ZAC 114.32 ETC 165.03 CLP -4.27

PLANETOCENTRIC CONIC

C3 28.539 VHL 5.342 DLA 26.89 RAL 26.12 RAD 6568.1 VEL 12.244 PTH 2.20 VHP 8.845 OPA 8.19 RAP 19.71 ECC 1.4697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 38 31 3365.71 -23.36 122.11 262.58 73.53 3 34 37 2765.7 -25.40 114.03
 90.00 0 0 58 3880.97 -10.07 153.99 257.12 63.40 1 5 39 3281.0 -13.57 147.05
 100.00 4 33 8 2996.21 -26.61 95.90 263.56 75.86 5 23 5 2396.2 -28.29 87.50
 100.00 0 49 2 3725.70 -7.09 141.00 255.53 60.89 1 51 8 3125.7 -10.92 134.30
 110.00 6 35 39 2612.85 -32.96 68.33 265.10 80.39 7 19 12 2012.9 -33.94 59.22
 110.00 1 3 0 3681.82 -1.57 134.27 252.12 55.85 2 4 22 3081.8 -6.04 128.03

DIFFERENTIAL CORRECTIONS

TDE -.7915 TRA-1.5938 TC3 .0529 BAU .0328
 RDE -.3457 RRA .0247 RC3 -.0678 FAU .02986
 FDE 1.0349 FRA 1.5249 FC3 -.9059 BSP 6840
 BOE .8637 BRA 1.5940 BC3 .0860 FSP -571

MID-COURSE EXECUTION ACCURACY

SGT 2097.0 SGR 379.0 SG3 203.2
 RRT .3193 RRF -.3220 RTF -.9148
 SGB 2130.9 R23 -.0223 R13 -.9150
 SGI 2100.6 SG2 358.5 TMA 3.40

ORBIT DETERMINATION ACCURACY

ST 1025.3 SR 370.9 SS 946.9
 CRT .8142 CRS .8847 CST .9906
 LSA 1428.2 MSA 213.1 SSA 16.1
 EL1 1070.6 EL2 206.2 ALF 17.07

LAUNCH DATE DEC 18 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 294.155

RL 147.20 LAL .00 LOL 86.14 VL 26.542 GAL 6.26 AZL 87.02 MCA 122.68 SMA 120.79 ECC .24320 INC 2.9771 V1 30.267
 RP 108.05 LAP 2.51 LOP 208.85 VP 36.849 GAP -12.73 AZP 91.61 TAL 159.61 TAP 282.29 RCA 91.41 APO 150.16 V2 35.073
 RC 43.347 GL 15.45 GP 2.92 ZAL 53.83 ZAP 6.61 ETS 335.94 ZAE 169.93 ETE 322.76 ZAC 115.73 ETC 164.70 CLP -5.93

PLANETOCENTRIC CONIC

C3 26.447 VML 5.143 CLA 27.28 RAL 25.82 RAD 6568.1 VEL 12.158 PTH 2.18 VMP 8.409 CPA 9.05 RAP 21.04 ECC 1.4352
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 25 50 3384.97 -22.98 123.39 260.76 72.99 3 22 15 2785.0 -25.10 115.36
 90.00 0 11 19 3823.82 -11.80 150.68 256.16 64.07 1 15 3 3223.8 -15.19 143.64
 100.00 4 24 32 3002.28 -26.51 96.32 261.85 75.66 5 14 35 2402.3 -28.22 87.94
 100.00 0 55 17 3681.74 -8.54 138.54 254.45 61.25 1 56 39 3081.7 -12.31 131.78
 110.00 6 30 7 2609.30 -33.00 68.06 263.43 80.54 7 13 36 2009.3 -33.96 58.95
 110.00 1 6 12 3647.49 -2.88 132.47 250.98 55.92 2 6 59 3047.5 -7.33 126.22

DIFFERENTIAL CORRECTIONS

TOE -.7978 TRA -1.5659 TC3 .0984 BAW .0413
 RDE -.3278 RRA .0106 RC3 -.0628 FAU .03202
 FDE 1.1066 FRA 1.5986 FC3 -1.0482 BSP 7051
 BOE .8625 BRA 1.5659 BC3 .1167 FSP -633

MID-COURSE EXECUTION ACCURACY

SGT 2157.1 SGR 371.1 SG3 223.6
 RRT .3648 RRF -.3686 RTF -.9204
 SGB 2188.8 R23 -.0259 R13 -.9207
 SGI 2161.5 SG2 344.9 TMA 3.69

ORBIT DETERMINATION ACCURACY

ST 1066.2 SR 365.3 SS 996.8
 CRT .8275 CRS .8936 CST .9912
 LSA 1490.5 MSA 205.5 SSA 16.0
 EL1 1109.7 EL2 197.0 ALF 16.36

LAUNCH DATE DEC 18 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 300.905

RL 147.20 LAL .00 LOL 86.14 VL 26.670 GAL 5.96 AZL 87.07 MCA 125.89 SMA 121.54 ECC .23424 INC 2.9299 V1 30.267
 RP 108.09 LAP 2.37 LOP 212.07 VP 36.929 GAP -11.99 AZP 91.72 TAL 159.65 TAP 285.54 RCA 93.07 APO 150.01 V2 35.060
 RC 44.011 GL 15.88 GP 3.20 ZAL 54.06 ZAP 8.28 ETS 339.48 ZAE 168.19 ETE 333.07 ZAC 117.07 ETC 164.33 CLP -7.64

PLANETOCENTRIC CONIC

C3 24.553 VML 4.955 CLA 27.62 RAL 25.50 RAD 6568.0 VEL 12.080 PTH 2.16 VMP 7.989 CPA 9.91 RAP 22.31 ECC 1.4041
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 12 19 3406.84 -22.54 124.84 258.92 72.39 3 9 5 2806.8 -24.74 116.86
 90.00 0 22 13 3765.27 -13.51 147.24 255.21 64.88 1 24 58 3165.3 -16.79 140.09
 100.00 4 16 10 3007.59 -26.42 96.69 260.14 75.49 5 6 17 2407.6 -28.16 88.32
 100.00 1 1 3 3639.76 -9.91 136.17 253.35 61.65 2 1 43 3039.8 -13.62 129.35
 110.00 6 24 50 2604.90 -33.05 67.72 261.75 80.74 7 8 15 2004.9 -33.98 58.61
 110.00 1 8 52 3615.22 -4.11 130.78 249.82 56.03 2 9 7 3015.2 -8.34 124.50

DIFFERENTIAL CORRECTIONS

TOE -.8033 TRA -1.5368 TC3 .1489 BAW .0522
 RDE -.3115 RRA -.0036 RC3 -.0554 FAU .03443
 FDE 1.1859 FRA 1.6802 FC3 -1.2140 BSP 7252
 BOE .8616 BRA 1.5368 BC3 .1589 FSP -701

MID-COURSE EXECUTION ACCURACY

SGT 2214.9 SGR 364.4 SG3 246.4
 RRT .4163 RRF -.4217 RTF -.9257
 SGB 2244.7 R23 -.0303 R13 -.9261
 SGI 2220.2 SG2 330.5 TMA 4.01

ORBIT DETERMINATION ACCURACY

ST 1106.7 SR 360.2 SS 1050.0
 CRT .8414 CRS .9030 CST .9917
 LSA 1554.9 MSA 197.7 SSA 15.9
 EL1 1148.6 EL2 187.5 ALF 15.75

LAUNCH DATE DEC 18 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 307.645

RL 147.20 LAL .00 LOL 86.14 VL 26.788 GAL 5.67 AZL 87.12 MCA 129.10 SMA 122.25 ECC .22589 INC 2.8788 V1 30.267
 RP 108.13 LAP 2.23 LOP 215.28 VP 37.001 GAP -11.27 AZP 91.82 TAL 159.72 TAP 288.82 RCA 94.63 APO 149.86 V2 35.047
 RC 44.838 GL 16.27 GP 3.54 ZAL 54.32 ZAP 10.06 ETS 341.74 ZAE 166.36 ETE 340.56 ZAC 118.33 ETC 163.91 CLP -9.42

PLANETOCENTRIC CONIC

C3 22.839 VML 4.779 CLA 27.91 RAL 25.14 RAD 6567.9 VEL 12.009 PTH 2.14 VMP 7.585 CPA 10.80 RAP 23.51 ECC 1.3759
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 57 46 3432.14 -22.01 126.51 257.04 71.72 2 54 58 2832.1 -24.31 118.59
 90.00 0 33 56 3704.58 -15.24 143.61 254.27 65.84 1 35 41 3104.6 -18.37 136.34
 100.00 4 8 17 3011.37 -26.36 96.95 258.45 75.36 4 58 29 2411.4 -28.11 88.59
 100.00 1 6 6 3600.59 -11.16 133.94 252.23 62.09 2 6 6 3000.6 -14.81 127.05
 110.00 6 19 57 2599.30 -33.11 67.30 260.08 80.98 7 3 16 1999.3 -34.00 58.17
 110.00 1 10 56 3585.42 -5.24 129.22 248.65 56.17 2 10 41 2985.4 -9.65 122.90

DIFFERENTIAL CORRECTIONS

TOE -.8052 TRA -1.5034 TC3 .2083 BAW .0651
 RDE -.2968 RRA -.0180 RC3 -.0450 FAU .03720
 FDE 1.2715 FRA 1.7686 FC3 -1.4101 BSP 7501
 BOE .8581 BRA 1.5035 BC3 .2132 FSP -782

MID-COURSE EXECUTION ACCURACY

SGT 2265.4 SGR 359.2 SG3 271.8
 RRT .4729 RRF -.4806 RTF -.9308
 SGB 2293.7 R23 -.0360 R13 -.9313
 SGI 2271.9 SG2 315.6 TMA 4.37

ORBIT DETERMINATION ACCURACY

ST 1142.9 SR 355.9 SS 1105.1
 CRT .8554 CRS .9125 CST .9922
 LSA 1618.0 MSA 190.0 SSA 15.7
 EL1 1183.8 EL2 178.0 ALF 15.27

LAUNCH DATE DEC 18 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 314.372

RL 147.20 LAL .00 LOL 86.14 VL 26.897 GAL 5.40 AZL 87.18 MCA 132.31 SMA 122.91 ECC .21813 INC 2.8228 V1 30.267
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.068 GAP -10.58 AZP 91.80 TAL 159.82 TAP 292.13 RCA 96.10 APO 149.72 V2 35.033
 RC 45.818 GL 16.61 GP 3.93 ZAL 54.60 ZAP 11.92 ETS 343.21 ZAE 164.58 ETE 346.27 ZAC 119.50 ETC 163.44 CLP -11.26

PLANETOCENTRIC CONIC

C3 21.287 VML 4.614 CLA 28.15 RAL 24.77 RAD 6567.9 VEL 11.944 PTH 2.13 VMP 7.196 CPA 11.70 RAP 24.62 ECC 1.3503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 41 34 3463.06 -21.34 128.92 255.13 70.93 2 39 17 2863.1 -23.74 120.68
 90.00 0 47 10 3639.59 -17.01 139.66 253.37 67.01 1 47 50 3039.6 -19.98 132.25
 100.00 4 1 18 3012.57 -26.34 97.04 256.78 75.32 4 51 30 2412.6 -28.09 88.68
 100.00 1 10 8 3565.32 -12.28 131.92 251.06 62.53 2 9 33 2965.3 -15.86 124.96
 110.00 6 15 38 2592.09 -33.19 66.75 258.42 81.30 6 58 50 1992.1 -34.03 57.61
 110.00 1 12 17 3558.56 -6.25 127.80 247.46 56.33 2 11 35 2958.6 -10.64 121.45

DIFFERENTIAL CORRECTIONS

TOE -.8079 TRA -1.4717 TC3 .2674 BAW .0766
 RDE -.2840 RRA -.0332 RC3 -.0313 FAU .04022
 FDE 1.3675 FRA 1.8691 FC3 -1.6359 BSP 7672
 BOE .8564 BRA 1.4721 BC3 .2692 FSP -869

MID-COURSE EXECUTION ACCURACY

SGT 2316.0 SGR 357.0 SG3 300.4
 RRT .5365 RRF -.5464 RTF -.9353
 SGB 2343.4 R23 -.0427 R13 -.9359
 SGI 2324.1 SG2 300.2 TMA 4.81

ORBIT DETERMINATION ACCURACY

ST 1180.4 SR 353.0 SS 1164.8
 CRT .8702 CRS .9224 CST .9927
 LSA 1685.6 MSA 182.0 SSA 15.5
 EL1 1220.5 EL2 168.2 ALF 14.88

LAUNCH DATE DEC 18 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 26.997 GAL 5.15 AZL 87.24 MCA 135.51 SMA 123.52 ECC .21095 INC 2.7609 V1 30.267
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.128 GAP -9.90 AZP 91.97 TAL 159.96 TAP 295.47 RCA 97.47 APO 149.58 V2 35.020
 RC 46.944 GL 16.89 GP 4.40 ZAL 54.90 ZAP 13.88 ETS 344.16 ZAE 162.91 ETE 350.87 ZAC 120.56 ETC 162.91 CLP -13.18

PLANETOCENTRIC CONIC

C3 19.880 VHL 4.459 DLA 28.31 RAL 24.39 RAD 6567.8 VEL 11.885 PTH 2.11 VHP 6.823 DPA 12.63 RAP 25.64 ECC 1.3272
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 17 35 3519.63 -20.03 132.16 252.99 69.56 2 16 15 2919.6 -22.64 124.46
 90.00 1 8 8 3550.30 -19.29 134.11 252.69 68.86 2 7 18 2950.3 -22.00 126.48
 100.00 3 55 41 3009.77 -26.38 96.84 255.17 75.41 4 45 50 2409.8 -28.13 88.48
 100.00 1 12 44 3535.40 -13.21 130.19 249.86 62.94 2 11 39 2935.4 -16.74 123.17
 110.00 6 12 6 2582.75 -33.28 66.04 256.78 81.71 6 55 9 1982.7 -34.07 56.88
 110.00 1 12 48 3535.19 -7.14 126.57 246.26 56.48 2 11 43 2935.2 -11.49 120.18

DIFFERENTIAL CORRECTIONS

TOE -.8086 TRA-1.4389 TC3 .3308 BAU .0880 SGT 2361.7 SGR 358.7 SG3 332.6 ST 1215.2 SR 351.9 SS 1227.7
 ROE -.2733 RRA -.0492 RC3 -.0134 FAU .04363 RRT .6047 RRF -.6172 RTF -.9395 CRT .8852 CRS .9325 CST .9932
 FOE 1.4727 FRA 1.9815 FC3-1.8999 BSP 7829 SGB 2388.8 R23 -.0512 R13 -.9401 LSA 1754.2 MSA 174.1 SSA 15.2
 BOE .8535 BRA 1.4397 BC3 .3311 FSP -967 SG1 2371.8 SG2 284.5 TMA 5.32 EL1 1255.1 EL2 158.5 ALF 14.62

LAUNCH DATE DEC 18 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.088 GAL 4.92 AZL 87.31 MCA 138.71 SMA 124.10 ECC .20430 INC 2.6915 V1 30.267
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.182 GAP -9.25 AZP 92.02 TAL 160.11 TAP 298.83 RCA 98.74 APO 149.45 V2 35.007
 RC 48.205 GL 17.09 GP 4.94 ZAL 55.21 ZAP 15.96 ETS 344.72 ZAE 161.42 ETE 354.82 ZAC 121.50 ETC 162.31 CLP -15.19

PLANETOCENTRIC CONIC

C3 18.603 VHL 4.313 DLA 28.40 RAL 24.02 RAD 6567.8 VEL 11.832 PTH 2.10 VHP 6.466 DPA 13.61 RAP 26.54 ECC 1.3062
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.80 0 53 1 3578.73 -20.10 136.51 251.43 69.51 1 52 40 2978.7 -22.71 128.81
 92.20 1 29 43 3459.82 -20.09 127.81 251.42 69.50 2 27 23 2859.8 -22.70 120.10
 100.00 3 52 1 3001.19 -26.53 96.25 253.62 75.70 4 42 2 2401.2 -28.23 87.86
 100.00 1 13 24 3512.60 -13.92 128.86 248.60 63.28 2 11 56 2912.6 -17.39 121.79
 110.00 6 9 34 2570.64 -33.40 65.11 255.16 82.25 6 52 25 1970.6 -34.11 55.94
 110.00 1 12 21 3515.92 -7.86 125.54 245.04 56.63 2 10 56 2915.9 -12.19 119.13

DIFFERENTIAL CORRECTIONS

TOE -.8061 TRA-1.4045 TC3 .3977 BAU .0989 SGT 2400.5 SGR 366.1 SG3 368.6 ST 1245.6 SR 353.2 SS 1293.3
 ROE -.2649 RRA -.0666 RC3 .0099 FAU .04746 RRT .6749 RRF -.6904 RTF -.9433 CRT .9002 CRS .9426 CST .9937
 FOE 1.5871 FRA 2.1074 FC3-2.2087 BSP 7976 SGB 2428.3 R23 -.0620 R13 -.9440 LSA 1822.4 MSA 166.2 SSA 14.9
 BOE .8485 BRA 1.4061 BC3 .3978 FSP -1077 SG1 2413.4 SG2 268.7 TMA 5.95 EL1 1286.1 EL2 149.0 ALF 14.52

LAUNCH DATE DEC 18 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.172 GAL 4.70 AZL 87.39 MCA 141.91 SMA 124.63 ECC .19819 INC 2.6128 V1 30.267
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.231 GAP -8.62 AZP 92.06 TAL 160.29 TAP 302.21 RCA 99.93 APO 149.33 V2 34.994
 RC 49.590 GL 17.19 GP 5.60 ZAL 55.52 ZAP 18.16 ETS 344.97 ZAE 160.11 ETE 358.42 ZAC 122.29 ETC 161.64 CLP -17.30

PLANETOCENTRIC CONIC

C3 17.441 VHL 4.176 DLA 28.38 RAL 23.66 RAD 6567.7 VEL 11.782 PTH 2.08 VHP 6.124 DPA 14.64 RAP 27.30 ECC 1.2870
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.01 0 53 19 3558.18 -20.45 135.15 250.05 69.88 1 52 37 2958.2 -23.00 127.40
 91.99 1 26 36 3450.29 -20.44 127.25 250.04 69.87 2 24 6 2850.3 -23.00 119.50
 100.00 3 50 58 2984.94 -26.80 95.11 252.16 76.23 4 40 43 2384.9 -28.43 86.69
 100.00 1 11 37 3498.76 -14.34 128.05 247.29 63.49 2 9 56 2898.8 -17.78 120.95
 110.00 6 8 20 2554.99 -33.53 63.91 253.59 82.95 6 50 55 1955.0 -34.15 54.72
 110.00 1 10 45 3501.48 -8.40 124.77 243.81 56.74 2 9 7 2901.5 -12.72 118.34

DIFFERENTIAL CORRECTIONS

TOE -.7978 TRA-1.3671 TC3 .4709 BAU .1102 SGT 2428.5 SGR 381.1 SG3 408.9 ST 1267.8 SR 357.4 SS 1359.5
 ROE -.2589 RRA -.0859 RC3 .0403 FAU .05184 RRT .7430 RRF -.7620 RTF -.9469 CRT .9147 CRS .9524 CST .9942
 FOE 1.7083 FRA 2.2476 FC3-2.5734 BSP 8147 SGB 2458.2 R23 -.0758 R13 -.9479 LSA 1886.3 MSA 158.5 SSA 14.4
 BOE .8388 BRA 1.3698 BC3 .4726 FSP -1205 SG1 2445.1 SG2 253.3 TMA 6.72 EL1 1309.8 EL2 139.9 ALF 14.63

LAUNCH DATE DEC 18 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.249 GAL 4.49 AZL 87.48 MCA 145.11 SMA 125.12 ECC .19257 INC 2.5219 V1 30.267
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.274 GAP -8.01 AZP 92.07 TAL 160.49 TAP 305.60 RCA 101.03 APO 149.21 V2 34.980
 RC 51.091 GL 17.18 GP 6.40 ZAL 55.82 ZAP 20.50 ETS 344.96 ZAE 159.02 ETE 1.92 ZAC 122.90 ETC 160.88 CLP -19.52

PLANETOCENTRIC CONIC

C3 16.381 VHL 4.047 DLA 28.25 RAL 23.35 RAD 6567.7 VEL 11.737 PTH 2.07 VHP 5.798 DPA 15.76 RAP 27.90 ECC 1.2696
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 56 3433.91 -21.97 126.62 249.18 71.68 2 23 9 2833.9 -24.27 118.71
 90.00 0 51 27 3545.71 -19.41 133.82 248.20 68.96 1 50 33 2945.7 -22.09 126.18
 100.00 3 53 6 2959.34 -27.20 93.32 250.79 77.10 4 42 26 2359.3 -28.70 84.84
 100.00 1 6 58 3495.51 -14.44 127.86 245.92 63.54 2 5 13 2895.5 -17.88 120.75
 110.00 6 8 42 2534.89 -33.69 62.36 252.05 83.85 6 50 57 1934.9 -34.18 53.15
 110.00 1 7 51 3492.72 -8.72 124.31 242.58 56.82 2 6 3 2892.7 -13.03 117.86

DIFFERENTIAL CORRECTIONS

TOE -.7874 TRA-1.3310 TC3 .5388 BAU .1192 SGT 2451.1 SGR 407.1 SG3 454.2 ST 1286.3 SR 366.2 SS 1428.8
 ROE -.2560 RRA -.1083 RC3 .0790 FAU .05662 RRT .8059 RRF -.8282 RTF -.9499 CRT .9289 CRS .9618 CST .9946
 FOE 1.8396 FRA 2.4090 FC3-2.9925 BSP 8233 SGB 2484.7 R23 -.0935 R13 -.9512 LSA 1951.2 MSA 150.7 SSA 14.0
 BOE .8280 BRA 1.3354 BC3 .5445 FSP -1344 SG1 2473.2 SG2 238.9 TMA 7.70 EL1 1331.0 EL2 131.0 ALF 14.96

LAUNCH DATE DEC 18 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 347.778

RL 147.20 LAL .00 LOL 86.14 VL 27.319 GAL 4.30 AZL 87.58 MCA 148.31 SMA 125.57 ECC .18743 INC 2.4154 V1 30.267
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.313 GAP -7.42 AZP 92.06 TAL 160.70 TAP 309.00 RCA 102.04 APO 149.11 V2 34.967
 RC 52.697 GL 17.01 GP 7.39 ZAL 56.09 ZAP 23.02 ETS 344.70 ZAE 158.13 ETE 5.54 ZAC 123.32 ETC 160.02 CLP -21.87

PLANETOCENTRIC CONIC

C3 15.409 VHL 3.925 CLA 27.97 RAL 23.09 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 5.489 DPA 16.99 RAP 28.31 ECC 1.2536
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 46 37 3349.41 -23.67 121.01 248.40 73.99 2 42 26 2749.4 -25.64 112.90
 90.00 0 28 43 3602.47 -17.98 137.37 246.29 67.75 1 28 45 3002.5 -20.84 129.87
 100.00 3 58 50 2923.15 -27.72 90.76 249.51 78.35 4 47 33 2323.2 -29.05 82.20
 100.00 0 59 11 3503.95 -14.18 128.35 244.50 63.41 1 57 35 2904.0 -17.64 121.27
 110.00 6 11 6 2509.18 -33.86 60.37 250.55 85.02 6 52 55 1909.2 -34.18 51.14
 110.00 1 3 24 3490.69 -8.80 124.20 241.35 56.84 2 1 35 2890.7 -13.11 117.74

DIFFERENTIAL CORRECTIONS

TDE -.7716 TRA-1.2930 TC3 .6055 BAU .1275
 RDE -.2567 RRA -.1348 RC3 .1290 FAU .06196
 FDE 1.9762 FRA 2.5908 FC3-3.4811 BSP 8290
 BDE .8132 BRA 1.3000 BC3 .6191 FSP -1499

MID-COURSE EXECUTION ACCURACY

SGT 2461.8 SGR 447.5 SG3 504.7
 RRT .8588 RRF -.8842 RTF -.9525
 SGB 2502.1 R23 -.1156 R13 -.9542
 SG1 2491.9 SG2 226.5 THA 8.95

ORBIT DETERMINATION ACCURACY

ST 1296.0 SR 380.6 SS 1497.9
 CRT .9424 CRS .9706 CST .9950
 LSA 2011.9 MSA 142.8 SSA 13.5
 EL1 1345.1 EL2 122.6 ALF 15.60

LAUNCH DATE DEC 18 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 354.405

RL 147.20 LAL .00 LOL 86.14 VL 27.382 GAL 4.13 AZL 87.71 MCA 151.50 SMA 125.98 ECC .18274 INC 2.2880 V1 30.267
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.348 GAP -6.85 AZP 92.01 TAL 160.91 TAP 312.41 RCA 102.96 APO 149.01 V2 34.954
 RC 54.398 GL 16.63 GP 8.62 ZAL 56.33 ZAP 25.75 ETS 344.18 ZAE 157.42 ETE 9.53 ZAC 123.48 ETC 159.03 CLP -24.35

PLANETOCENTRIC CONIC

C3 14.513 VHL 3.810 CLA 27.50 RAL 22.92 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 5.198 DPA 18.40 RAP 28.48 ECC 1.2388
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 6 40 3268.08 -25.09 115.48 247.55 76.42 3 1 8 2668.1 -26.71 107.18
 90.00 0 7 18 3656.99 -16.54 140.73 244.51 66.69 1 8 15 3057.0 -19.56 133.35
 100.00 4 8 27 2875.47 -28.33 87.34 248.31 80.05 4 56 23 2275.5 -29.42 78.71
 100.00 0 48 11 3524.84 -13.54 129.57 243.05 63.09 1 46 56 2924.8 -17.04 122.53
 110.00 6 15 59 2476.38 -34.03 57.82 249.09 86.51 6 57 15 1876.4 -34.13 48.58
 110.00 0 57 9 3496.69 -8.58 124.52 240.13 56.78 1 55 26 2896.7 -12.89 118.08

DIFFERENTIAL CORRECTIONS

TDE -.7460 TRA-1.2511 TC3 .6773 BAU .1368
 RDE -.2612 RRA -.1669 RC3 .1956 FAU .06805
 FDE 2.1081 FRA 2.7936 FC3-4.0597 BSP 8390
 BDE .7904 BRA 1.2621 BC3 .7050 FSP -1679

MID-COURSE EXECUTION ACCURACY

SGT 2454.6 SGR 506.6 SG3 560.3
 RRT .8991 RRF -.9275 RTF -.9550
 SGB 2506.3 R23 -.1417 R13 -.9574
 SG1 2496.8 SG2 218.0 THA 10.59

ORBIT DETERMINATION ACCURACY

ST 1289.9 SR 401.9 SS 1560.9
 CRT .9544 CRS .9782 CST .9954
 LSA 2060.0 MSA 134.9 SSA 12.9
 EL1 1346.2 EL2 114.9 ALF 16.69

LAUNCH DATE DEC 18 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 361.011

RL 147.20 LAL .00 LOL 86.14 VL 27.440 GAL 3.97 AZL 87.87 MCA 154.69 SMA 126.36 ECC .17849 INC 2.1314 V1 30.267
 RP 108.45 LAP .91 LOP 240.85 VP 37.378 GAP -6.29 AZP 91.93 TAL 161.13 TAP 315.82 RCA 103.81 APO 148.92 V2 34.942
 RC 56.186 GL 15.98 GP 10.18 ZAL 56.51 ZAP 28.72 ETS 343.39 ZAE 156.85 ETE 14.16 ZAC 123.33 ETC 157.88 CLP -27.00

PLANETOCENTRIC CONIC

C3 13.678 VHL 3.698 CLA 26.78 RAL 22.87 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 4.927 DPA 20.05 RAP 28.35 ECC 1.2251
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 42 3181.48 -26.33 109.44 246.68 79.20 3 21 43 2581.5 -27.56 100.99
 90.00 23 40 58 3717.51 -14.88 144.39 242.81 65.62 24 42 56 3117.5 -18.04 137.15
 100.00 4 22 19 2815.20 -28.96 82.97 247.16 82.26 5 9 14 2215.2 -29.73 74.25
 100.00 0 33 58 3559.02 -12.48 131.55 241.61 62.62 1 33 17 2959.0 -16.05 124.58
 110.00 6 23 59 2434.48 -34.15 54.56 247.66 88.44 7 4 33 1834.5 -33.99 45.32
 110.00 0 48 47 3512.51 -7.99 125.36 238.94 56.65 1 47 20 2912.5 -12.32 118.94

DIFFERENTIAL CORRECTIONS

TDE -.7131 TRA-1.2081 TC3 .7409 BAU .1451
 RDE -.2707 RRA -.2078 RC3 .2840 FAU .07465
 FDE 2.2308 FRA 3.0229 FC3-4.7251 BSP 8436
 BDE .7627 BRA 1.2258 BC3 .7934 FSP -1876

MID-COURSE EXECUTION ACCURACY

SGT 2432.2 SGR 591.7 SG3 621.1
 RRT .9273 RRF -.9582 RTF -.9569
 SGB 2503.1 R23 -.1704 R13 -.9604
 SG1 2493.8 SG2 215.9 THA 12.81

ORBIT DETERMINATION ACCURACY

ST 1271.3 SR 433.2 SS 1617.1
 CRT .9651 CRS .9847 CST .9958
 LSA 2098.2 MSA 126.3 SSA 12.3
 EL1 1338.7 EL2 107.7 ALF 18.33

LAUNCH DATE DEC 18 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 367.597

RL 147.20 LAL .00 LOL 86.14 VL 27.492 GAL 3.83 AZL 88.07 MCA 157.88 SMA 126.71 ECC .17465 INC 1.9330 V1 30.267
 RP 108.49 LAP .73 LOP 244.03 VP 37.405 GAP -5.75 AZP 91.79 TAL 161.34 TAP 319.22 RCA 104.58 APO 148.83 V2 34.929
 RC 58.051 GL 14.93 GP 12.22 ZAL 56.62 ZAP 32.01 ETS 342.29 ZAE 156.29 ETE 19.79 ZAC 122.79 ETC 156.54 CLP -29.82

PLANETOCENTRIC CONIC

C3 12.893 VHL 3.591 CLA 25.69 RAL 23.00 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 4.680 DPA 22.06 RAP 27.85 ECC 1.2122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 54 3 3085.12 -27.38 102.58 245.78 82.48 3 45 28 2485.1 -28.14 94.00
 90.00 23 16 40 3788.24 -12.85 148.59 241.21 64.55 24 19 48 3188.2 -16.17 141.49
 100.00 4 41 1 2740.29 -29.53 77.48 246.04 85.10 5 26 41 2140.3 -29.89 68.69
 100.00 0 16 19 3608.30 -10.92 134.38 240.22 62.00 1 16 27 3008.3 -14.58 127.51
 110.00 6 36 0 2580.54 -34.17 50.35 246.23 90.94 7 15 40 1780.5 -33.66 41.14
 110.00 0 37 49 3540.81 -6.92 126.86 237.81 56.44 1 36 50 2940.8 -11.29 120.49

DIFFERENTIAL CORRECTIONS

TDE -.6711 TRA-1.1639 TC3 .7947 BAU .1537
 RDE -.2861 RRA -.2620 RC3 .4041 FAU .08164
 FDE 2.3280 FRA 3.2810 FC3-5.4817 BSP 8447
 BDE .7295 BRA 1.1931 BC3 .8915 FSP -2084

MID-COURSE EXECUTION ACCURACY

SGT 2391.7 SGR 712.6 SG3 686.1
 RRT .9450 RRF -.9779 RTF -.9583
 SGB 2495.6 R23 -.1965 R13 -.9636
 SG1 2485.5 SG2 224.3 THA 15.86

ORBIT DETERMINATION ACCURACY

ST 1236.6 SR 477.4 SS 1659.8
 CRT .9742 CRS .9898 CST .9963
 LSA 2120.9 MSA 116.6 SSA 11.8
 EL1 1321.7 EL2 100.8 ALF 20.73

LAUNCH DATE DEC 18 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.538 GAL 3.70 AZL 88.33 MCA 161.06 SMA 127.02 ECC .17120 INC 1.6716 V1 30.267
 RP 108.53 LAP .54 LOP 247.21 VP 37.427 GAP -5.23 AZP 91.58 TAL 161.55 TAP 322.61 RCA 105.27 APO 148.76 V2 34.917
 RC 59.985 GL 13.30 GP 14.94 ZAL 56.63 ZAP 35.71 ETS 340.79 ZAE 155.52 ETE 26.80 ZAC 121.72 ETC 154.94 CLP -32.82

PLANETOCENTRIC CONIC

C3 12.144 VHL 3.485 DLA 24.08 RAL 23.39 RAD 6567.5 VEL 11.556 PTH 2.02 VHP 4.463 DPA 24.63 RAP 26.83 ECC 1.1999
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 24 24 2973.25 -28.11 94.48 244.82 86.47 4 13 58 2373.3 -28.31 85.82
 90.00 22 49 24 3874.58 -10.27 153.62 239.77 63.47 23 53 58 3274.6 -13.75 146.68
 100.00 5 5 44 2646.56 -29.87 70.53 244.90 88.74 5 49 50 2046.6 -29.72 61.73
 100.00 23 50 45 3676.50 -8.71 138.24 238.94 61.29 24 52 2 3076.5 -12.48 131.48
 110.00 6 53 22 2309.83 -33.95 44.84 244.78 94.19 7 31 51 1709.8 -33.00 35.73
 110.00 0 23 33 3585.99 -5.22 129.25 236.81 56.17 1 23 19 2986.0 -9.63 122.93

DIFFERENTIAL CORRECTIONS

TDE -.6064 TRA-1.1068 TC3 .8722 BAU .1700
 RDE -.3053 RRA -.3341 RC3 .5798 FAU .08967
 FDE 2.3458 FRA 3.5393 FC3-6.3927 BSP 8719
 BOE .6789 BRA 1.1562 BC3 1.0473 FSP -2341

MID-COURSE EXECUTION ACCURACY

SGT 2310.0 SGR 881.7 SG3 750.0
 RRT .9552 RRF -.9893 RTF -.9604
 SGB 2472.6 R23 -.2079 R13 -.9686
 SG1 2460.4 SG2 245.0 THA 20.24

ORBIT DETERMINATION ACCURACY

ST 1162.7 SR 533.6 SS 1660.9
 CRT .9810 CRS .9934 CST .9967
 LSA 2093.7 MSA 105.7 SSA 11.2
 EL1 1275.8 EL2 94.3 ALF 24.38

LAUNCH DATE DEC 18 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.580 GAL 3.59 AZL 88.69 MCA 164.24 SMA 127.29 ECC .16813 INC 1.3095 V1 30.267
 RP 108.57 LAP .36 LOP 250.39 VP 37.447 GAP -4.72 AZP 91.26 TAL 161.74 TAP 325.98 RCA 105.89 APO 148.70 V2 34.906
 RC 61.981 GL 10.73 GP 18.72 ZAL 56.51 ZAP 39.99 ETS 338.80 ZAE 154.11 ETE 35.55 ZAC 119.91 ETC 153.01 CLP -36.00

PLANETOCENTRIC CONIC

C3 11.428 VHL 3.381 DLA 21.60 RAL 24.18 RAD 6567.4 VEL 11.525 PTH 2.01 VHP 4.292 DPA 28.07 RAP 25.10 ECC 1.1881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 27 2836.70 -28.28 84.51 243.81 91.47 4 49 43 2236.7 -27.78 75.88
 90.00 22 17 40 3985.68 -6.83 159.97 238.63 62.45 23 24 6 3385.7 -10.46 153.18
 100.00 5 38 47 2526.09 -29.71 61.58 243.74 93.45 6 20 53 1926.1 -28.92 52.87
 100.00 23 24 2 3771.53 -5.57 143.54 237.94 60.58 24 26 53 3171.5 -9.45 136.90
 110.00 7 18 25 2214.36 -33.24 37.48 243.30 98.49 7 55 19 1614.4 -31.71 28.58
 110.00 0 4 49 3656.02 -2.55 132.92 236.07 55.90 1 5 45 3056.0 -7.01 126.67

DIFFERENTIAL CORRECTIONS

TDE -.5890 TRA-1.1088 TC3 .7191 BAU .1619
 RDE -.3453 RRA -.4566 RC3 .7784 FAU .09097
 FDE 2.3939 FRA 3.9493 FC3-6.8913 BSP 7529
 BOE .6827 BRA 1.1991 BC3 1.0597 FSP -2310

MID-COURSE EXECUTION ACCURACY

SGT 2306.1 SGR 1145.4 SG3 819.6
 RRT .9548 RRF -.9955 RTF -.9538
 SGB 2574.9 R23 -.2297 R13 -.9687
 SG1 2556.5 SG2 307.1 THA 25.77

ORBIT DETERMINATION ACCURACY

ST 1168.0 SR 636.4 SS 1705.2
 CRT .9898 CRS .9963 CST .9982
 LSA 2161.0 MSA 84.3 SSA 12.8
 EL1 1327.7 EL2 79.8 ALF 28.45

LAUNCH DATE DEC 18 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.617 GAL 3.49 AZL 89.23 MCA 167.42 SMA 127.54 ECC .16541 INC .7709 V1 30.267
 RP 108.60 LAP .17 LOP 253.57 VP 37.464 GAP -4.22 AZP 90.75 TAL 161.91 TAP 329.33 RCA 106.45 APO 148.64 V2 34.894
 RC 64.032 GL 6.49 GP 24.19 ZAL 56.31 ZAP 45.15 ETS 336.18 ZAE 151.21 ETE 46.03 ZAC 116.96 ETC 150.66 CLP -39.37

PLANETOCENTRIC CONIC

C3 10.757 VHL 3.280 DLA 17.57 RAL 25.60 RAD 6567.4 VEL 11.495 PTH 2.00 VHP 4.197 DPA 32.94 RAP 22.20 ECC 1.1770
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 7 2657.27 -27.28 71.49 242.74 97.91 5 37 24 2057.3 -25.90 63.09
 90.00 21 38 17 4140.20 -1.89 168.65 238.07 61.74 22 47 17 3540.2 -5.66 161.99
 100.00 6 24 42 2361.94 -28.43 49.56 242.54 99.64 7 4 4 1761.9 -26.81 41.14
 100.00 22 49 23 3910.76 -.87 151.21 237.51 60.12 23 54 34 3310.8 -4.84 144.67
 110.00 7 55 25 2078.10 -31.40 27.28 241.81 104.26 8 30 3 1478.1 -29.13 18.82
 110.00 23 35 9 3767.37 1.70 138.73 235.90 55.85 24 37 57 3167.4 -2.79 132.52

DIFFERENTIAL CORRECTIONS

TDE -.4806 TRA-1.0347 TC3 .8040 BAU .2032
 RDE -.3621 RRA -.6162 RC3 1.1617 FAU .09725
 FDE 2.0709 FRA 4.1384 FC3-7.8267 BSP 8399
 BOE .6017 BRA 1.2043 BC3 1.4128 FSP -2558

MID-COURSE EXECUTION ACCURACY

SGT 2139.6 SGR 1901.9 SG3 850.7
 RRT .9565 RRF -.9983 RTF -.9552
 SGB 2614.1 R23 -.1970 R13 -.9787
 SG1 2588.9 SG2 362.0 THA 34.65

ORBIT DETERMINATION ACCURACY

ST 1014.3 SR 717.9 SS 1550.7
 CRT .9945 CRS .9976 CST .9992
 LSA 1986.2 MSA 61.5 SSA 14.4
 EL1 1241.1 EL2 61.5 ALF 35.24

LAUNCH DATE DEC 18 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.649 GAL 3.40 AZL 90.12 MCA 170.60 SMA 127.76 ECC .16302 INC .1233 V1 30.267
 RP 108.64 LAP -.02 LOP 256.74 VP 37.477 GAP -3.74 AZP 89.88 TAL 162.06 TAP 332.66 RCA 106.93 APO 148.59 V2 34.883
 RC 66.131 GL -1.07 GP 32.53 ZAL 56.28 ZAP 51.79 ETS 332.76 ZAE 145.30 ETE 57.33 ZAC 112.15 ETC 147.84 CLP -42.81

PLANETOCENTRIC CONIC

C3 10.281 VHL 3.206 DLA 10.42 RAL 28.17 RAD 6567.4 VEL 11.475 PTH 1.99 VHP 4.267 DPA 40.24 RAP 17.14 ECC 1.1692
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 18 2396.89 -23.53 53.37 242.13 106.22 6 47 15 1796.9 -21.09 45.55
 90.00 20 44 36 4382.24 5.89 182.18 239.16 62.25 21 57 38 3782.2 2.13 175.52
 100.00 7 33 50 2117.84 -24.46 32.54 241.82 107.74 8 9 7 1517.8 -21.81 24.75
 100.00 22 0 45 4136.53 6.74 163.65 238.70 60.81 23 9 42 3536.5 2.80 157.08
 110.00 8 53 50 1867.48 -26.92 12.54 240.84 111.91 9 24 57 1267.5 -23.71 4.85
 110.00 22 57 15 3959.65 8.98 148.86 237.33 56.88 24 3 14 3359.7 4.55 142.57

DIFFERENTIAL CORRECTIONS

TDE -.3802 TRA -.9870 TC3 .7604 BAU .2546
 RDE -.3529 RRA -.8922 RC3 1.6890 FAU .09409
 FDE 1.4784 FRA 4.2093 FC3-7.9231 BSP 9138
 BOE .5187 BRA 1.3305 BC3 1.8523 FSP -2518

MID-COURSE EXECUTION ACCURACY

SGT 1978.6 SGR 2049.0 SG3 825.5
 RRT .9529 RRF -.9995 RTF -.9515
 SGB 2848.4 R23 -.1510 R13 -.9880
 SG1 2814.7 SG2 436.7 THA 46.05

ORBIT DETERMINATION ACCURACY

ST 866.6 SR 796.9 SS 1291.1
 CRT .9996 CRS .9983 CST .9986
 LSA 1746.6 MSA 46.7 SSA 15.6
 EL1 1177.3 EL2 15.9 ALF 42.60

LAUNCH DATE DEC 18 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 400.193

RL 147.20 LAL .00 LOL 86.14 VL 27.677 GAL 3.33 AZL 91.92 MCA 173.77 SMA 127.96 ECC .16096 INC 1.9188 V1 30.267
 RP 108.67 LAP -.21 LOP 259.91 VP 37.488 GAP -3.27 AZP 88.09 TAL 162.18 TAP 335.94 RCA 107.36 APO 148.55 V2 34.873
 RC 68.274 GL -16.25 GP 45.98 ZAL 58.11 ZAP 61.04 ETS 328.54 ZAE 133.74 ETE 67.47 ZAC 104.14 ETC 144.76 CLP -45.84

PLANETOCENTRIC CONIC

C3 10.940 VHL 3.308 DLA -3.93 RAL 33.14 RAD 6567.4 VEL 11.503 PTH 2.00 VHP 4.805 DPA 51.65 RAP 6.82 ECC 1.1800
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 16 0 1958.11 -12.63 25.86 245.05 115.55 8 48 38 1358.1 -9.09 18.97
 90.00 19 15 35 4846.24 19.27 209.65 246.26 68.84 20 36 21 4246.2 16.22 202.30
 100.00 9 35 30 1701.65 -13.47 6.58 244.63 116.94 10 3 52 1101.7 -9.75 359.76
 100.00 20 38 46 4577.93 20.13 189.55 245.89 67.42 21 55 4 3977.9 16.90 182.25
 110.00 10 39 32 1501.22 -15.68 350.10 243.37 120.77 11 4 33 901.2 -11.49 343.51
 110.00 21 51 14 4351.13 22.43 171.21 244.76 63.50 23 3 45 3751.1 18.69 164.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2771 TRA -.9633 TC3 .5996 BAU .3338 SGT 1784.9 SGR 2856.1 SG3 662.2 ST 694.6 SR 814.6 SS 891.9
 ROE -.2083 RRA-1.3995 RC3 2.2021 FAU .07425 RRT .9447 RRF -.9999 RTF -.9437 CRT .9537 CRS .9989 CST .9388
 FDE .4974 FRA 3.7715 FC3-5.8757 BSP 10659 SGB 3367.9 R23 -.0940 R13 -.9955 LSA 1379.0 MSA 199.4 SSA 2.5
 BDE .3467 BRA 1.6990 BC3 2.2823 FSP -2044 SG1 3330.3 SG2 502.1 THA 58.65 EL1 1058.4 EL2 160.8 ALF 49.76

LAUNCH DATE DEC 18 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 406.620

RL 147.20 LAL .00 LOL 86.14 VL 27.702 GAL 3.28 AZL 97.38 MCA 176.92 SMA 128.12 ECC .15923 INC 7.3771 V1 30.267
 RP 108.70 LAP -.40 LOP 263.09 VP 37.497 GAP -2.82 AZP 82.63 TAL 162.24 TAP 339.16 RCA 107.72 APO 148.53 V2 34.862
 RC 70.456 GL -46.92 GP 68.14 ZAL 69.25 ZAP 74.39 ETS 322.50 ZAE 112.38 ETE 72.04 ZAC 91.30 ETC 140.89 CLP -43.70

PLANETOCENTRIC CONIC

C3 23.635 VHL 4.862 DLA -33.03 RAL 43.67 RAD 6568.0 VEL 12.042 PTH 2.15 VHP 7.518 DPA 67.93 RAP 335.08 ECC 1.3890
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.24 12 11 59 1366.41 21.54 .40 276.28 115.67 12 34 45 766.4 24.81 352.87
 107.76 16 43 35 5787.01 21.55 273.85 276.28 115.66 18 20 2 5187.0 24.82 266.32
 72.24 12 11 59 1366.41 21.54 .40 276.28 115.67 12 34 45 766.4 24.81 352.87
 107.76 16 43 35 5787.01 21.55 273.85 276.28 115.66 18 20 2 5187.0 24.82 266.32
 110.00 15 50 18 662.86 15.46 305.17 272.83 120.88 16 1 21 62.9 19.43 298.31
 110.00 18 4 27 5536.56 27.90 257.60 279.27 110.61 19 36 45 4938.6 30.44 249.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2642 TRA-1.1630 TC3 .2201 BAU .3885 SGT 1679.0 SGR 3789.2 SG3 302.0 ST 581.3 SR 1169.6 SS 695.0
 ROE .3967 RRA-2.5408 RC3 1.2096 FAU .02943 RRT .9351 RRF -.9999 RTF -.9400 CRT .5597 CRS .9995 CST .5852
 FDE -.3369 FRA 2.3549 FC3-1.0780 BSP 13261 SGB 4144.5 R23 -.0422 R13 -.9991 LSA 1404.7 MSA 464.3 SSA .4
 BDE .4766 BRA 2.7946 BC3 1.2295 FSP -977 SG1 4108.0 SG2 548.9 THA 67.06 EL1 1222.0 EL2 461.0 ALF 71.77

LAUNCH DATE DEC 18 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 413.632

RL 147.20 LAL .00 LOL 86.14 VL 27.723 GAL 3.12 AZL 10.82 MCA 180.59 SMA 128.27 ECC .15711 INC79.1627 V1 30.267
 RP 108.73 LAP -.58 LOP 266.25 VP 37.504 GAP -2.23 AZP 169.18 TAL 162.83 TAP 343.42 RCA 108.12 APO 148.42 V2 34.853
 RC 72.672 GL 47.27 GP -54.70 ZAL 87.44 ZAP 87.90 ETS 176.45 ZAE 56.57 ETE 58.66 ZAC 103.15 ETC 5.54 CLP 86.37

PLANETOCENTRIC CONIC

C31370.101 VHL 37.015 DLA 42.34 RAL 336.63 RAD 6573.1 VEL 38.618 PTH 3.55 VHP 44.518 DPA -43.03 RAP 147.87 ECC23.5484
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.10 18 24 3 4881.59 .85 223.74 247.57 47.67 19 45 25 4281.6 -4.54 218.23
 122.90 1 36 40 3553.22 .86 121.81 247.56 47.67 2 35 53 2953.2 -4.52 116.30
 57.10 18 24 3 4881.59 .85 223.74 247.57 47.67 19 45 25 4281.6 -4.54 218.23
 122.90 1 36 40 3553.22 .86 121.81 247.56 47.67 2 35 53 2953.2 -4.52 116.30
 57.10 18 24 3 4881.59 .85 223.74 247.57 47.67 19 45 25 4281.6 -4.54 218.23
 122.90 1 36 40 3553.22 .86 121.81 247.56 47.67 2 35 53 2953.2 -4.52 116.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-7.0705 TRA 2.5874 TC3 -.1305 BAU 5.3781 SGT 1557.4 SGR 3536.4 SG3 68.7 ST 1106.8 SR 2949.4 SS 2536.4
 RO-19.0483 RRA -.7067 RC3 -.2630 FAU-.09505 RRT .9130 RRF -.9998 RTF -.9207 CRT .9868 CRS 1.0000 CST .9878
 FDE 4.2591 FRA .0939 FC3 .0601 BSP 4805 SGB 3864.1 R23 -.0442 R13 -.9990 LSA 4040.9 MSA 170.1 SSA .6
 BDE20.3182 BRA 2.6822 BC3 .2936 FSP -92 SG1 3819.1 SG2 588.3 THA 67.53 EL1 3145.8 EL2 168.0 ALF 69.62

LAUNCH DATE DEC 18 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 419.591

RL 147.20 LAL .00 LOL 86.14 VL 27.740 GAL 3.18 AZL 76.85 MCA 183.37 SMA 128.39 ECC .15640 INC13.1517 V1 30.267
 RP 108.76 LAP -.77 LOP 269.42 VP 37.508 GAP -1.91 AZP 103.13 TAL 162.43 TAP 345.80 RCA 108.31 APO 148.47 V2 34.844
 RC 74.919 GL 59.60 GP -68.47 ZAL 76.74 ZAP 78.19 ETS 39.49 ZAE 109.11 ETE 292.47 ZAC 116.57 ETC 218.76 CLP -56.11

PLANETOCENTRIC CONIC

C3 53.387 VHL 7.307 DLA 60.50 RAL 340.91 RAD 6568.9 VEL 13.219 PTH 2.41 VHP 6.875 DPA -51.27 RAP 66.18 ECC 1.8786
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.01 17 27 20 4617.53 -24.51 227.46 235.98 32.77 18 44 17 4017.5 -31.15 222.83
 145.99 3 7 34 2943.94 -24.50 89.97 235.96 32.76 3 56 38 2343.9 -31.14 85.33
 34.01 17 27 20 4617.53 -24.51 227.46 235.98 32.77 18 44 17 4017.5 -31.15 222.83
 145.99 3 7 34 2943.94 -24.50 89.97 235.96 32.76 3 56 38 2343.9 -31.14 85.33
 34.01 17 27 20 4617.53 -24.51 227.46 235.98 32.77 18 44 17 4017.5 -31.15 222.83
 145.99 3 7 34 2943.94 -24.50 89.97 235.96 32.76 3 56 38 2343.9 -31.14 85.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.8865 TRA -.3865 TC3 .0496 BAU .2614 SGT 1603.9 SGR 4049.8 SG3 347.9 ST 1490.8 SR 4014.8 SS 2367.0
 ROE 5.1198 RRA -.0206 RC3 -.3628 FAU .02349 RRT -.9172 RRF .9987 RTF -.9353 CRT -.9920 CRS -.9999 CST .9938
 FDE 5.0810 FRA .1081 FC3 -.3809 BSP 13375 SGB 4355.8 R23 -.0031 R13 .9999 LSA 4890.1 MSA 176.7 SSA 1.2
 BDE 5.4564 BRA .3870 BC3 .3662 FSP -1112 SG1 4314.3 SG2 599.9 THA 110.37 EL1 4279.0 EL2 176.7 ALF 110.26

LAUNCH DATE DEC 18 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 425.958

RL 147.20 LAL .00 LOL 86.14 VL 27.755 GAL 3.16 AZL 81.62 HCA 186.51 SMA 128.49 ECC .15548 INC 8.3802 V1 30.267
 RP 108.78 LAP -.95 LOP 272.59 VP 37.511 GAP -1.49 AZP 98.33 TAL 162.39 TAP 348.91 RCA 108.51 APO 148.47 V2 34.835
 RC 77.194 GL 50.73 GP -50.24 ZAL 71.34 ZAP 74.92 ETS 22.53 ZAE 128.02 ETE 281.35 ZAC 120.69 ETC 199.08 CLP -65.99

PLANETOCENTRIC CONIC

C3 27.221 VHL 5.217 OLA 55.35 RAL 355.08 RAD 6568.1 VEL 12.190 PTH 2.19 VHP 4.308 DPA -37.75 RAP 48.24 ECC 1.4480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.23 18 40 16 4416.19 -31.91 213.64 239.60 42.05 19 53 52 3816.2 -37.68 207.30
 139.77 3 47 40 2806.93 -31.90 84.11 239.58 42.05 4 34 27 2206.9 -37.66 77.77
 40.23 18 40 16 4416.19 -31.91 213.64 239.60 42.05 19 53 52 3816.2 -37.68 207.30
 139.77 3 47 40 2806.93 -31.90 84.11 239.58 42.05 4 34 27 2206.9 -37.66 77.77
 40.23 18 40 16 4416.19 -31.91 213.64 239.60 42.05 19 53 52 3816.2 -37.68 207.30
 139.77 3 47 40 2806.93 -31.90 84.11 239.58 42.05 4 34 27 2206.9 -37.66 77.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4177 TRA -.3972 TC3 -.0109 BAU .3250 SGT 893.8 SGR 3601.8 SG3 811.1 ST 513.2 SR 3364.9 SS 3218.9
 RDE 3.0535 RRA .4801 RC3 -.8929 FAU .07754 RRT -.6954 RRF .9993 RTF -.7157 CRT -.9278 CRS -.9999 CST .9321
 FDE 7.8393 FRA 1.4079 FC3 -2.4661 BSP 11610 SGB 3711.0 R23 -.0019 R13 .9997 LSA 4680.9 MSA 189.8 SSA 2.2
 BDE 3.0820 BRA .6231 BC3 .8930 FSP -2592 SG1 3656.7 SG2 632.7 THA 100.10 EL1 3398.5 EL2 189.6 ALF 98.08

LAUNCH DATE DEC 18 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 432.321

RL 147.20 LAL .00 LOL 86.14 VL 27.766 GAL 3.16 AZL 83.28 HCA 189.68 SMA 128.57 ECC .15479 INC 6.7148 V1 30.267
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.512 GAP -1.07 AZP 96.62 TAL 162.33 TAP 352.00 RCA 108.67 APO 148.47 V2 34.827
 RC 79.493 GL 45.36 GP -39.18 ZAL 68.53 ZAP 76.30 ETS 14.21 ZAE 139.57 ETE 275.23 ZAC 120.66 ETC 189.34 CLP -72.21

PLANETOCENTRIC CONIC

C3 20.757 VHL 4.556 OLA 51.45 RAL 1.38 RAD 6567.8 VEL 11.922 PTH 2.12 VHP 3.539 DPA -29.03 RAP 39.67 ECC 1.3416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.06 19 19 35 4318.69 -33.24 204.50 239.91 48.17 20 31 34 3718.7 -38.35 197.32
 134.94 3 58 35 2771.86 -33.23 81.84 239.90 48.16 4 44 47 2171.9 -38.34 74.66
 45.06 19 19 35 4318.69 -33.24 204.50 239.91 48.17 20 31 34 3718.7 -38.35 197.32
 134.94 3 58 35 2771.86 -33.23 81.84 239.90 48.16 4 44 47 2171.9 -38.34 74.66
 45.06 19 19 35 4318.69 -33.24 204.50 239.91 48.17 20 31 34 3718.7 -38.35 197.32
 134.94 3 58 35 2771.86 -33.23 81.84 239.90 48.16 4 44 47 2171.9 -38.34 74.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .0278 TRA -.3018 TC3 -.1812 BAU .2952 SGT 632.0 SGR 3065.5 SG3 1180.6 ST 186.1 SR 2706.7 SS 3611.0
 RDE 2.1352 RRA .5595 RC3 -1.0482 FAU .11889 RRT -.2251 RRF .9992 RTF -.2492 CRT .0638 CRS -.9999 CST -.0509
 FDE 9.3009 FRA 2.6904 FC3 -4.9588 BSP 9675 SGB 3130.0 R23 .0152 R13 .9994 LSA 4512.7 MSA 187.9 SSA 2.7
 BDE 2.1354 BRA .6357 BC3 1.0637 FSP -3745 SG1 3069.0 SG2 615.0 THA 92.77 EL1 2706.7 EL2 185.7 ALF 89.75

LAUNCH DATE DEC 18 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 438.668

RL 147.20 LAL .00 LOL 86.14 VL 27.775 GAL 3.16 AZL 84.13 HCA 192.84 SMA 128.63 ECC .15433 INC 5.8653 V1 30.267
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.512 GAP -.66 AZP 95.72 TAL 162.22 TAP 355.06 RCA 108.78 APO 148.48 V2 34.820
 RC 81.813 GL 41.91 GP -31.97 ZAL 66.80 ZAP 79.93 ETS 8.70 ZAE 146.96 ETE 267.58 ZAC 118.92 ETC 183.13 CLP -78.10

PLANETOCENTRIC CONIC

C3 18.003 VHL 4.243 OLA 48.79 RAL 4.87 RAD 6567.7 VEL 11.806 PTH 2.09 VHP 3.194 DPA -23.56 RAP 33.87 ECC 1.2963
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.45 19 44 24 4259.31 -33.25 198.46 239.84 51.98 20 55 24 3659.3 -37.93 190.89
 131.55 4 1 38 2763.91 -33.24 81.04 239.83 51.97 4 47 42 2163.9 -37.92 73.47
 48.45 19 44 24 4259.31 -33.25 198.46 239.84 51.98 20 55 24 3659.3 -37.93 190.89
 131.55 4 1 38 2763.91 -33.24 81.04 239.83 51.97 4 47 42 2163.9 -37.92 73.47
 48.45 19 44 24 4259.31 -33.25 198.46 239.84 51.98 20 55 24 3659.3 -37.93 190.89
 131.55 4 1 38 2763.91 -33.24 81.04 239.83 51.97 4 47 42 2163.9 -37.92 73.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .3261 TRA -.1844 TC3 -.4118 BAU .2711 SGT 677.4 SGR 2630.0 SG3 1434.3 ST 454.9 SR 2233.6 SS 3775.3
 RDE 1.6352 RRA .5454 RC3 -1.0483 FAU .14761 RRT .4832 RRF .9988 RTF .4610 CRT .9200 CRS -.9999 CST -.9136
 FDE 9.9892 FRA 3.6942 FC3 -7.0986 BSP 8213 SGB 2715.8 R23 .0537 R13 .9977 LSA 4406.2 MSA 185.0 SSA 3.3
 BDE 1.6674 BRA .5757 BC3 1.1263 FSP -4563 SG1 2651.3 SG2 588.3 THA 82.54 EL1 2272.7 EL2 175.2 ALF 79.32

LAUNCH DATE DEC 18 1968

FLIGHT TIME 164.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 444.995

RL 147.20 LAL .00 LOL 86.14 VL 27.781 GAL 3.18 AZL 84.65 HCA 196.00 SMA 128.67 ECC .15409 INC 5.3476 V1 30.267
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.510 GAP -.26 AZP 95.14 TAL 162.07 TAP 358.07 RCA 108.85 APO 148.50 V2 34.813
 RC 84.153 GL 39.49 GP -26.90 ZAL 65.57 ZAP 84.60 ETS 4.81 ZAE 151.59 ETE 257.66 ZAC 116.48 ETC 178.90 CLP -83.94

PLANETOCENTRIC CONIC

C3 16.526 VHL 4.065 OLA 46.90 RAL 7.18 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 3.013 DPA -20.01 RAP 29.23 ECC 1.2720
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.91 20 2 6 4218.56 -32.95 194.22 239.87 54.51 21 12 25 3618.6 -37.33 186.45
 129.09 4 2 22 2765.10 -32.93 80.88 239.86 54.49 4 48 27 2165.1 -37.31 73.10
 50.91 20 2 6 4218.56 -32.95 194.22 239.87 54.51 21 12 25 3618.6 -37.33 186.45
 129.09 4 2 22 2765.10 -32.93 80.88 239.86 54.49 4 48 27 2165.1 -37.31 73.10
 50.91 20 2 6 4218.56 -32.95 194.22 239.87 54.51 21 12 25 3618.6 -37.33 186.45
 129.09 4 2 22 2765.10 -32.93 80.88 239.86 54.49 4 48 27 2165.1 -37.31 73.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .5791 TRA -.0537 TC3 -.6781 BAU .2648 SGT 991.2 SGR 2279.1 SG3 1598.7 ST 817.1 SR 1885.8 SS 3823.1
 RDE 1.3193 RRA .5063 RC3 -.9884 FAU .16711 RRT .8168 RRF .9982 RTF .8008 CRT .9785 CRS -.9998 CST -.9740
 FDE 10.2359 FRA 4.4327 FC3 -8.7538 BSP 7291 SGB 2485.3 R23 .1079 R13 .9927 LSA 4336.6 MSA 182.3 SSA 3.9
 BDE 1.4408 BRA .5092 BC3 1.1987 FSP -5135 SG1 2426.5 SG2 537.0 THA 69.39 EL1 2049.3 EL2 155.0 ALF 66.88

LAUNCH DATE DEC 18 1968

FLIGHT TIME 166.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 451.302

RL 147.20 LAL .00 LOL 86.14 VL 27.785 GAL 3.21 AZL 85.00 MCA 199.17 SMA 128.70 ECC .15407 INC 4.9973 V1 30.267
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.507 GAP .14 AZP 94.72 TAL 161.87 TAP 1.04 RCA 108.87 APO 148.53 V2 34.807
 RC 86.508 GL 37.67 GP -23.10 ZAL 64.58 ZAP 89.75 ETS 1.95 ZAE 154.06 ETE 245.96 ZAC 113.81 ETC 175.88 CLP -89.73

PLANETOCENTRIC CONIC

C3 15.641 VHL 3.955 CLA 45.49 RAL 8.92 RAD 6567.6 VEL 11.706 PTH 2.06 VHP 2.917 DPA -17.61 RAP 25.23 ECC 1.2574
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.78 20 15 49 4188.78 -32.56 191.10 240.06 56.27 21 25 38 3588.8 -36.73 183.22
 127.22 4 2 33 2769.82 -32.55 81.01 240.05 56.26 4 48 43 2169.8 -36.72 73.12
 52.78 20 15 49 4188.78 -32.56 191.10 240.06 56.27 21 25 38 3588.8 -36.73 183.22
 127.22 4 2 33 2769.82 -32.55 81.01 240.05 56.26 4 48 43 2169.8 -36.72 73.12
 52.78 20 15 49 4188.78 -32.56 191.10 240.06 56.27 21 25 38 3588.8 -36.73 183.22
 127.22 4 2 33 2769.82 -32.55 81.01 240.05 56.26 4 48 43 2169.8 -36.72 73.12

DIFFERENTIAL CORRECTIONS

TDE .8089 TRA .0849 TC3 -.9681 BAU .2766
 RDE 1.0982 RRA .4608 RC3 -.9016 FAU .17923
 FDE 1.01912 FRA 4.9531 FC3-9.9207 BSP 6935
 BDE 1.3640 BRA .4686 BC3 1.3229 FSP -5511

MID-COURSE EXECUTION ACCURACY

SGT 1410.8 SGR 1986.7 SG3 1693.9
 RRT .9197 RRF .9971 RTF .9078
 SGB 2436.7 R23 .1544 R13 .9853
 SG1 2392.9 SG2 460.0 THA 55.39

ORBIT DETERMINATION ACCURACY

ST 1173.3 SR 1616.7 SS 3800.7
 CRT .9912 CRS -.9996 CST -.9872
 LSA 4289.9 MSA 180.1 SSA 4.6
 EL1 1993.6 EL2 126.1 ALF 54.11

LAUNCH DATE DEC 18 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 457.590

RL 147.20 LAL .00 LOL 86.14 VL 27.787 GAL 3.26 AZL 85.26 MCA 202.33 SMA 128.71 ECC .15427 INC 4.7433 V1 30.267
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.503 GAP .53 AZP 94.39 TAL 161.63 TAP 3.96 RCA 108.85 APO 148.57 V2 34.802
 RC 88.877 GL 36.21 GP -20.11 ZAL 63.72 ZAP 95.09 ETS 359.79 ZAE 154.73 ETE 233.84 ZAC 111.12 ETC 173.66 CLP -95.42

PLANETOCENTRIC CONIC

C3 15.082 VHL 3.884 CLA 44.40 RAL 10.37 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 2.875 DPA -15.92 RAP 21.68 ECC 1.2482
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.25 20 27 13 4165.91 -32.17 188.70 240.42 57.57 21 36 39 3565.9 -36.19 180.75
 125.75 4 2 42 2776.31 -32.16 81.30 240.41 57.56 4 48 58 2176.3 -36.17 73.35
 54.25 20 27 13 4165.91 -32.17 188.70 240.42 57.57 21 36 39 3565.9 -36.19 180.75
 125.75 4 2 42 2776.31 -32.16 81.30 240.41 57.56 4 48 58 2176.3 -36.17 73.35
 54.25 20 27 13 4165.91 -32.17 188.70 240.42 57.57 21 36 39 3565.9 -36.19 180.75
 125.75 4 2 42 2776.31 -32.16 81.30 240.41 57.56 4 48 58 2176.3 -36.17 73.35

DIFFERENTIAL CORRECTIONS

TDE 1.0209 TRA .2282 TC3-1.2691 BAU .3027
 RDE .9326 RRA .4146 RC3 -.8022 FAU .18522
 FDE 9.9360 FRA 5.2946 FC-10.6324 BSP 7126
 BDE 1.3827 BRA .4733 BC3 1.5014 FSP -5710

MID-COURSE EXECUTION ACCURACY

SGT 1860.7 SGR 1736.2 SG3 1733.6
 RRT .9565 RRF .9954 RTF .9474
 SGB 2544.9 R23 .1729 R13 .9804
 SG1 2517.2 SG2 374.5 THA 42.93

ORBIT DETERMINATION ACCURACY

ST 1513.1 SR 1399.8 SS 3731.3
 CRT .9958 CRS -.9994 CST -.9920
 LSA 4259.1 MSA 178.7 SSA 5.3
 EL1 2059.1 EL2 93.6 ALF 42.76

LAUNCH DATE DEC 18 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 463.857

RL 147.20 LAL .00 LOL 86.14 VL 27.786 GAL 3.32 AZL 85.45 MCA 205.49 SMA 128.71 ECC .15466 INC 4.5496 V1 30.267
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.499 GAP .91 AZP 94.11 TAL 161.34 TAP 6.84 RCA 108.80 APO 148.61 V2 34.797
 RC 91.256 GL 34.98 GP -17.68 ZAL 62.91 ZAP 100.41 ETS 358.13 ZAE 154.03 ETE 222.78 ZAC 108.54 ETC 171.99 CLP -100.94

PLANETOCENTRIC CONIC

C3 14.730 VHL 3.838 CLA 43.51 RAL 11.67 RAD 6567.6 VEL 11.667 PTH 2.05 VHP 2.872 DPA -14.67 RAP 18.52 ECC 1.2424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.47 20 37 10 4148.00 -31.79 186.80 240.94 58.56 21 46 18 3548.0 -35.68 178.81
 124.53 4 3 6 2783.68 -31.77 81.68 240.93 58.55 4 49 30 2183.7 -35.67 73.70
 55.47 20 37 10 4148.00 -31.79 186.80 240.94 58.56 21 46 18 3548.0 -35.68 178.81
 124.53 4 3 6 2783.68 -31.77 81.68 240.93 58.55 4 49 30 2183.7 -35.67 73.70
 55.47 20 37 10 4148.00 -31.79 186.80 240.94 58.56 21 46 18 3548.0 -35.68 178.81
 124.53 4 3 6 2783.68 -31.77 81.68 240.93 58.55 4 49 30 2183.7 -35.67 73.70

DIFFERENTIAL CORRECTIONS

TDE 1.2157 TRA .3739 TC3-1.5694 BAU .3383
 RDE .8026 RRA .3697 RC3 -.6984 FAU .18619
 FDE 9.5212 FRA 5.4856 FC-10.9434 BSP 7762
 BDE 1.4567 BRA .5258 BC3 1.7178 FSP -5765

MID-COURSE EXECUTION ACCURACY

SGT 2310.3 SGR 1517.2 SG3 1728.2
 RRT .9717 RRF .9927 RTF .9653
 SGB 2764.0 R23 .1625 R13 .9793
 SG1 2747.5 SG2 301.5 THA 32.99

ORBIT DETERMINATION ACCURACY

ST 1829.9 SR 1219.8 SS 3626.7
 CRT .9981 CRS -.9989 CST -.9942
 LSA 4237.7 MSA 177.6 SSA 6.0
 EL1 2198.3 EL2 63.0 ALF 33.67

LAUNCH DATE DEC 18 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 470.103

RL 147.20 LAL .00 LOL 86.14 VL 27.784 GAL 3.39 AZL 85.60 MCA 208.66 SMA 128.69 ECC .15526 INC 4.3961 V1 30.267
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.493 GAP 1.30 AZP 93.86 TAL 161.01 TAP 9.67 RCA 108.71 APO 148.67 V2 34.793
 RC 93.644 GL 33.91 GP -15.65 ZAL 62.12 ZAP 105.61 ETS 356.86 ZAE 152.41 ETE 213.61 ZAC 106.18 ETC 170.72 CLP -106.23

PLANETOCENTRIC CONIC

C3 14.522 VHL 3.811 CLA 42.77 RAL 12.89 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 2.901 DPA -13.71 RAP 15.73 ECC 1.2390
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.50 20 46 11 4133.70 -31.41 185.26 241.60 59.33 21 55 5 3533.7 -35.22 177.25
 123.50 4 3 50 2791.66 -31.40 82.13 241.59 59.32 4 50 21 2191.7 -35.21 74.13
 56.50 20 46 11 4133.70 -31.41 185.26 241.60 59.33 21 55 5 3533.7 -35.22 177.25
 123.50 4 3 50 2791.66 -31.40 82.13 241.59 59.32 4 50 21 2191.7 -35.21 74.13
 56.50 20 46 11 4133.70 -31.41 185.26 241.60 59.33 21 55 5 3533.7 -35.22 177.25
 123.50 4 3 50 2791.66 -31.40 82.13 241.59 59.32 4 50 21 2191.7 -35.21 74.13

DIFFERENTIAL CORRECTIONS

TDE 1.3938 TRA .5203 TC3-1.8574 BAU .3786
 RDE .6985 RRA .3270 RC3 -.5948 FAU .18296
 FDE 8.9998 FRA 5.5551 FC-10.9074 BSP 8673
 BDE 1.5590 BRA .6145 BC3 1.9503 FSP -5694

MID-COURSE EXECUTION ACCURACY

SGT 2744.3 SGR 1325.5 SG3 1687.9
 RRT .9776 RRF .9886 RTF .9746
 SGB 3047.7 R23 .1316 R13 .9805
 SG1 3037.2 SG2 251.9 THA 25.46

ORBIT DETERMINATION ACCURACY

ST 2120.2 SR 1069.4 SS 3498.8
 CRT .9993 CRS -.9983 CST -.9954
 LSA 4224.9 MSA 176.6 SSA 6.6
 EL1 2374.4 EL2 36.6 ALF 26.75

LAUNCH DATE DEC 18 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.780 GAL 3.47 AZL 85.73 HCA 211.82 SMA 128.66 ECC .15606 INC 4.2708 V1 30.267
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.487 GAP 1.67 AZP 93.63 TAL 160.63 TAP 12.45 RCA 108.58 APO 148.74 V2 34.789
 RC 96.038 GL 32.94 GP -13.93 ZAL 61.32 ZAP 110.59 ETS 355.89 ZAE 150.26 ETE 206.41 ZAC 104.10 ETC 169.77 CLP-111.24

PLANETOCENTRIC CONIC

C3 14.424 VHL 3.798 CLA 42.14 RAL 14.08 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 2.956 DPA -12.91 RAP 13.31 ECC 1.2374
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.39 20 54 39 4122.10 -31.04 183.98 242.40 59.94 22 3 22 3522.1 -34.77 175.97
 122.61 4 4 53 2800.25 -31.03 82.63 242.39 59.93 4 51 33 2200.2 -34.77 74.62
 57.39 20 54 39 4122.10 -31.04 183.98 242.40 59.94 22 3 22 3522.1 -34.77 175.97
 122.61 4 4 53 2800.25 -31.03 82.63 242.39 59.93 4 51 33 2200.2 -34.77 74.62
 57.39 20 54 39 4122.10 -31.04 183.98 242.40 59.94 22 3 22 3522.1 -34.77 175.97
 122.61 4 4 53 2800.25 -31.03 82.63 242.39 59.93 4 51 33 2200.2 -34.77 74.62

DIFFERENTIAL CORRECTIONS

TOE 1.5561 TRA .6676 TC3-2.1232 BAU .4203 SGT 3155.4 SGR 1159.6 SG3 1623.5 ST 2383.1 SR 944.6 SS 3360.6
 ROE .6151 RRA .2880 RC3 -.4930 FAU .17590 RRT .9779 RRF .9824 RTF .9798 CRT .9998 CRS -.9973 CST -.9961
 FOE 8.4258 FRA 5.4432 FC-10.5575 BSP 9693 SGB 3361.7 R23 .0923 R13 .9823 LSA 4223.0 MSA 176.1 SSA 7.3
 BOE 1.6732 BRA .7270 BC3 2.1797 FSP -5499 SG1 3354.0 SG2 228.1 THA 19.86 EL1 2563.5 EL2 15.4 ALF 21.62

LAUNCH DATE DEC 18 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.774 GAL 3.57 AZL 85.83 HCA 214.98 SMA 128.62 ECC .15705 INC 4.1661 V1 30.267
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.480 GAP 2.05 AZP 93.42 TAL 160.21 TAP 15.19 RCA 108.42 APO 148.82 V2 34.787
 RC 98.436 GL 32.03 GP -12.45 ZAL 60.50 ZAP 115.30 ETS 355.14 ZAE 147.87 ETE 200.89 ZAC 102.31 ETC 169.05 CLP-115.96

PLANETOCENTRIC CONIC

C3 14.415 VHL 3.797 CLA 41.57 RAL 15.28 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 3.034 DPA -12.21 RAP 11.26 ECC 1.2372
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.19 21 2 49 4112.62 -30.67 182.91 243.33 60.43 22 11 22 3512.6 -34.35 174.90
 121.81 4 6 14 2809.45 -30.66 83.19 243.33 60.42 4 53 3 2209.5 -34.34 75.18
 58.19 21 2 49 4112.62 -30.67 182.91 243.33 60.43 22 11 22 3512.6 -34.35 174.90
 121.81 4 6 14 2809.45 -30.66 83.19 243.33 60.42 4 53 3 2209.5 -34.34 75.18
 58.19 21 2 49 4112.62 -30.67 182.91 243.33 60.43 22 11 22 3512.6 -34.35 174.90
 121.81 4 6 14 2809.45 -30.66 83.19 243.33 60.42 4 53 3 2209.5 -34.34 75.18

DIFFERENTIAL CORRECTIONS

TOE 1.7000 TRA .8123 TC3-2.3664 BAU .4625 SGT 3534.9 SGR 1015.4 SG3 1540.1 ST 2612.7 SR 839.3 SS 3207.1
 ROE .5469 RRA .2513 RC3 -.4010 FAU .16736 RRT .9738 RRF .9734 RTF .9830 CRT .9999 CRS -.9959 CST -.9965
 FOE 7.8068 FRA 5.4456 FC-10.0516 BSP 10797 SGB 3677.8 R23 .0541 R13 .9841 LSA 4217.3 MSA 175.4 SSA 7.9
 BOE 1.7858 BRA .8503 BC3 2.4001 FSP -5273 SG1 3671.1 SG2 222.1 THA 15.69 EL1 2744.2 EL2 9.6 ALF 17.81

LAUNCH DATE DEC 18 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.766 GAL 3.68 AZL 85.92 HCA 218.14 SMA 128.57 ECC .15823 INC 4.0767 V1 30.267
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.472 GAP 2.42 AZP 93.21 TAL 159.74 TAP 17.88 RCA 108.22 APO 148.91 V2 34.785
 RC 100.837 GL 31.17 GP -11.18 ZAL 59.65 ZAP 119.73 ETS 354.57 ZAE 145.44 ETE 196.67 ZAC 100.85 ETC 168.51 CLP-120.36

PLANETOCENTRIC CONIC

C3 14.483 VHL 3.806 CLA 41.07 RAL 16.48 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.130 DPA -11.58 RAP 9.58 ECC 1.2384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.92 21 10 48 4104.92 -30.30 182.00 244.39 60.83 22 19 13 3504.9 -33.93 174.00
 121.08 4 7 53 2819.25 -30.28 83.79 244.38 60.82 4 54 53 2219.2 -33.92 75.79
 58.92 21 10 48 4104.92 -30.30 182.00 244.39 60.83 22 19 13 3504.9 -33.93 174.00
 121.08 4 7 53 2819.25 -30.28 83.79 244.38 60.82 4 54 53 2219.2 -33.92 75.79
 58.92 21 10 48 4104.92 -30.30 182.00 244.39 60.83 22 19 13 3504.9 -33.93 174.00
 121.08 4 7 53 2819.25 -30.28 83.79 244.38 60.82 4 54 53 2219.2 -33.92 75.79

DIFFERENTIAL CORRECTIONS

TOE 1.8284 TRA .9563 TC3-2.5798 BAU .5033 SGT 3883.3 SGR 893.1 SG3 1447.1 ST 2812.3 SR 752.6 SS 3050.9
 ROE .4922 RRA .2183 RC3 -.3174 FAU .15734 RRT .9650 RRF .9605 RTF .9851 CRT .9995 CRS -.9938 CST -.9968
 FOE 7.1890 FRA 5.3028 FC3-9.4052 BSP 11878 SGB 3984.7 R23 .0248 R13 .9855 LSA 4213.4 MSA 174.8 SSA 8.5
 BOE 1.8935 BRA .9809 BC3 2.5993 FSP -4997 SG1 3978.1 SG2 228.5 THA 12.56 EL1 2911.2 EL2 23.6 ALF 14.97

LAUNCH DATE DEC 18 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.757 GAL 3.81 AZL 86.00 HCA 221.30 SMA 128.50 ECC .15962 INC 3.9990 V1 30.267
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.465 GAP 2.79 AZP 93.01 TAL 159.22 TAP 20.53 RCA 107.99 APO 149.02 V2 34.784
 RC 103.240 GL 30.34 GP -10.08 ZAL 58.77 ZAP 123.86 ETS 354.14 ZAE 143.08 ETE 193.43 ZAC 99.71 ETC 168.12 CLP-124.46

PLANETOCENTRIC CONIC

C3 14.621 VHL 3.824 CLA 40.60 RAL 17.72 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 3.243 DPA -10.96 RAP 8.26 ECC 1.2406
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.60 21 18 44 4098.69 -29.91 181.22 245.57 61.16 22 27 2 3498.7 -33.51 173.23
 120.40 4 9 49 2829.70 -29.90 84.44 245.56 61.15 4 56 59 2229.7 -33.50 76.46
 59.60 21 18 44 4098.69 -29.91 181.22 245.57 61.16 22 27 2 3498.7 -33.51 173.23
 120.40 4 9 49 2829.70 -29.90 84.44 245.56 61.15 4 56 59 2229.7 -33.50 76.46
 59.60 21 18 44 4098.69 -29.91 181.22 245.57 61.16 22 27 2 3498.7 -33.51 173.23
 120.40 4 9 49 2829.70 -29.90 84.44 245.56 61.15 4 56 59 2229.7 -33.50 76.46

DIFFERENTIAL CORRECTIONS

TOE 1.9424 TRA 1.1000 TC3-2.7612 BAU .5418 SGT 4200.3 SGR 791.3 SG3 1350.0 ST 2983.1 SR 682.0 SS 2895.6
 ROE .4490 RRA .1890 RC3 -.2430 FAU .14649 RRT .9507 RRF .9426 RTF .9864 CRT .9984 CRS -.9910 CST -.9969
 FOE 6.5913 FRA 5.1329 FC3-8.6737 BSP 12912 SGB 4274.2 R23 .0053 R13 .9866 LSA 4209.3 MSA 174.4 SSA 9.0
 BOE 1.9936 BRA 1.1161 BC3 2.7719 FSP -4696 SG1 4267.4 SG2 241.5 THA 10.19 EL1 3059.8 EL2 37.8 ALF 12.86

LAUNCH DATE DEC 18 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 501.030

RL 147.20 LAL .00 LOL 86.14 VL 27.747 GAL 3.95 AZL 86.07 MCA 224.46 SMA 128.43 ECC .16119 INC 3.9305 V1 30.267
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.457 GAP 3.16 AZP 92.81 TAL 158.67 TAP 23.13 RCA 107.73 APO 149.14 V2 34.783
 RC 105.643 GL 29.52 GP -9.13 ZAL 57.85 ZAP 127.69 ETS 353.82 ZAE 140.86 ETE 190.93 ZAC 98.89 ETC 167.85 CLP-128.26

PLANETOCENTRIC CONIC

C3 14.826 VML 3.850 DLA 40.16 RAL 18.99 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 3.370 OPA -10.36 RAP 7.27 ECC 1.2440
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.24 21 26 42 4093.59 -29.52 180.54 246.86 61.43 22 34 55 3493.6 -33.08 172.57
 119.76 4 11 57 2840.98 -29.51 85.16 246.86 61.42 4 59 18 2241.0 -33.07 77.19
 60.24 21 26 42 4093.59 -29.52 180.54 246.86 61.43 22 34 55 3493.6 -33.08 172.57
 119.76 4 11 57 2840.98 -29.51 85.16 246.86 61.42 4 59 18 2241.0 -33.07 77.19
 60.24 21 26 42 4093.59 -29.52 180.54 246.86 61.43 22 34 55 3493.6 -33.08 172.57
 119.76 4 11 57 2840.98 -29.51 85.16 246.86 61.42 4 59 18 2241.0 -33.07 77.19

DIFFERENTIAL CORRECTIONS

TDE 2.0438 TRA 1.2441 TC3-2.9107 BAU .5780
 RDE .4153 RRA .1630 RC3 -.1785 FAU .13546
 FDE 6.0276 FRA 4.9471 FC3-7.9103 BSP 13881
 BDE 2.0856 BRA 1.2547 BC3 2.9162 FSP -4387

MID-COURSE EXECUTION ACCURACY

SGT 4487.9 SGR 708.2 SG3 1253.1
 RRT .9302 RRF .9189 RTF .9874
 SGB 4543.4 R23 -.0070 R13 .9873
 SG1 4536.1 SG2 257.2 THA 8.38

ORBIT DETERMINATION ACCURACY

ST 3127.6 SR 625.3 SS 2744.3
 CRT .9966 CRS -.9873 CST -.9970
 LSA 4204.0 MSA 174.2 SSA 9.6
 EL1 3189.1 EL2 50.8 ALF 11.27

LAUNCH DATE DEC 18 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 507.153

RL 147.20 LAL .00 LOL 86.14 VL 27.735 GAL 4.10 AZL 86.13 MCA 227.62 SMA 128.35 ECC .16297 INC 3.8693 V1 30.267
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.448 GAP 3.53 AZP 92.61 TAL 158.08 TAP 25.70 RCA 107.44 APO 149.27 V2 34.783
 RC 108.045 GL 28.72 GP -8.30 ZAL 56.88 ZAP 131.24 ETS 353.59 ZAE 138.79 ETE 188.96 ZAC 98.35 ETC 167.66 CLP-131.77

PLANETOCENTRIC CONIC

C3 15.095 VML 3.885 DLA 39.74 RAL 20.29 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 3.510 OPA -9.75 RAP 6.60 ECC 1.2484
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.86 21 34 45 4089.55 -29.11 179.94 248.27 61.65 22 42 54 3489.5 -32.65 171.99
 119.14 4 14 17 2853.08 -29.09 85.92 248.26 61.64 5 1 50 2253.1 -32.63 77.98
 60.86 21 34 45 4089.55 -29.11 179.94 248.27 61.65 22 42 54 3489.5 -32.65 171.99
 119.14 4 14 17 2853.08 -29.09 85.92 248.26 61.64 5 1 50 2253.1 -32.63 77.98
 60.86 21 34 45 4089.55 -29.11 179.94 248.27 61.65 22 42 54 3489.5 -32.65 171.99
 119.14 4 14 17 2853.08 -29.09 85.92 248.26 61.64 5 1 50 2253.1 -32.63 77.98

DIFFERENTIAL CORRECTIONS

TDE 2.1359 TRA 1.3918 TC3-3.0224 BAU .6105
 RDE .3900 RRA .1407 RC3 -.1223 FAU .12412
 FDE 5.5103 FRA 4.7653 FC3-7.1183 BSP 14729
 BDE 2.1712 BRA 1.3989 BC3 3.0249 FSP -4063

MID-COURSE EXECUTION ACCURACY

SGT 4749.9 SGR 642.4 SG3 1159.7
 RRT .9029 RRF .8891 RTF .9879
 SGB 4793.2 R23 -.0137 R13 .9878
 SG1 4785.3 SG2 274.0 THA 6.99

ORBIT DETERMINATION ACCURACY

ST 3250.7 SR 580.8 SS 2601.5
 CRT .9939 CRS -.9827 CST -.9971
 LSA 4200.2 MSA 174.5 SSA 10.2
 EL1 3301.6 EL2 63.0 ALF 10.07

LAUNCH DATE DEC 18 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 513.255

RL 147.20 LAL .00 LOL 86.14 VL 27.722 GAL 4.27 AZL 86.19 MCA 230.78 SMA 128.27 ECC .16495 INC 3.8140 V1 30.267
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.440 GAP 3.90 AZP 92.41 TAL 157.44 TAP 28.23 RCA 107.11 APO 149.42 V2 34.784
 RC 110.446 GL 27.91 GP -7.57 ZAL 55.89 ZAP 134.53 ETS 353.41 ZAE 136.90 ETE 187.41 ZAC 98.10 ETC 167.54 CLP-135.03

PLANETOCENTRIC CONIC

C3 15.430 VML 3.928 DLA 39.33 RAL 21.62 RAD 6567.6 VEL 11.697 PTH 2.06 VHP 3.662 OPA -9.13 RAP 6.20 ECC 1.2539
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.47 21 42 56 4086.35 -28.68 179.41 249.77 61.84 22 51 2 3486.4 -32.20 171.49
 118.53 4 16 45 2866.12 -28.66 86.75 249.76 61.82 5 4 31 2266.1 -32.18 78.84
 61.47 21 42 56 4086.35 -28.68 179.41 249.77 61.84 22 51 2 3486.4 -32.20 171.49
 118.53 4 16 45 2866.12 -28.66 86.75 249.76 61.82 5 4 31 2266.1 -32.18 78.84
 61.47 21 42 56 4086.35 -28.68 179.41 249.77 61.84 22 51 2 3486.4 -32.20 171.49
 118.53 4 16 45 2866.12 -28.66 86.75 249.76 61.82 5 4 31 2266.1 -32.18 78.84

DIFFERENTIAL CORRECTIONS

TDE 2.2157 TRA 1.5396 TC3-3.1093 BAU .6416
 RDE .3712 RRA .1210 RC3 -.0764 FAU .11367
 FDE 5.0278 FRA 4.5769 FC3-6.3779 BSP 15556
 BDE 2.2466 BRA 1.5443 BC3 3.1102 FSP -3768

MID-COURSE EXECUTION ACCURACY

SGT 4984.1 SGR 590.6 SG3 1070.1
 RRT .8693 RRF .8533 RTF .9882
 SGB 5019.0 R23 -.0177 R13 .9881
 SG1 5010.6 SG2 290.3 THA 5.90

ORBIT DETERMINATION ACCURACY

ST 3348.0 SR 545.7 SS 2461.2
 CRT .9904 CRS -.9772 CST -.9971
 LSA 4187.3 MSA 175.0 SSA 10.7
 EL1 3391.3 EL2 74.5 ALF 9.17

LAUNCH DATE DEC 18 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 519.334

RL 147.20 LAL .00 LOL 86.14 VL 27.709 GAL 4.45 AZL 86.24 MCA 233.94 SMA 128.17 ECC .16713 INC 3.7634 V1 30.267
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.431 GAP 4.27 AZP 92.22 TAL 156.77 TAP 30.72 RCA 106.75 APO 149.59 V2 34.786
 RC 112.844 GL 27.11 GP -6.94 ZAL 54.85 ZAP 137.58 ETS 353.27 ZAE 135.18 ETE 186.16 ZAC 98.09 ETC 167.47 CLP-138.05

PLANETOCENTRIC CONIC

C3 15.832 VML 3.979 DLA 38.94 RAL 22.99 RAD 6567.6 VEL 11.714 PTH 2.06 VHP 3.825 OPA -8.50 RAP 6.07 ECC 1.2605
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.08 21 51 15 4083.98 -28.22 178.93 251.37 61.98 22 59 19 3484.0 -31.73 171.04
 117.92 4 19 20 2880.11 -28.21 87.65 251.37 61.97 5 7 20 2280.1 -31.72 79.76
 62.08 21 51 15 4083.98 -28.22 178.93 251.37 61.98 22 59 19 3484.0 -31.73 171.04
 117.92 4 19 20 2880.11 -28.21 87.65 251.37 61.97 5 7 20 2280.1 -31.72 79.76
 62.08 21 51 15 4083.98 -28.22 178.93 251.37 61.98 22 59 19 3484.0 -31.73 171.04
 117.92 4 19 20 2880.11 -28.21 87.65 251.37 61.97 5 7 20 2280.1 -31.72 79.76

DIFFERENTIAL CORRECTIONS

TDE 2.2867 TRA 1.6908 TC3-3.1664 BAU .6702
 RDE .3581 RRA .1042 RC3 -.0386 FAU .10375
 FDE 4.5882 FRA 4.3960 FC3-5.6735 BSP 16315
 BDE 2.3146 BRA 1.6940 BC3 3.1666 FSP -3489

MID-COURSE EXECUTION ACCURACY

SGT 5195.1 SGR 551.4 SG3 986.1
 RRT .8305 RRF .8128 RTF .9884
 SGB 5224.3 R23 -.0196 R13 .9883
 SG1 5215.3 SG2 305.9 THA 5.06

ORBIT DETERMINATION ACCURACY

ST 3425.0 SR 518.9 SS 2327.9
 CRT .9860 CRS -.9707 CST -.9971
 LSA 4169.9 MSA 175.9 SSA 11.2
 EL1 3463.0 EL2 85.4 ALF 8.50

LAUNCH DATE DEC 18 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.694 GAL 4.65 AZL 86.28 MCA 237.11 SMA 128.07 ECC .16954 INC 3.7168 VI 30.267
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.422 GAP 4.64 AZP 92.02 TAL 156.07 TAP 33.18 RCA 106.36 APO 149.78 V2 34.789
 RC 115.239 GL 26.30 GP -6.39 ZAL 53.78 ZAP 140.41 ETS 353.17 ZAE 133.63 ETE 185.16 ZAC 98.31 ETC 167.44 CLP-140.84

PLANETOCENTRIC CONIC

C3 16.304 VHL 4.038 DLA 38.54 RAL 24.39 RAD 6567.7 VEL 11.734 PTH 2.07 VHP 3.997 DPA -7.85 RAP 6.17 ECC 1.2683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.69 21 59 45 4082.24 -27.75 178.50 253.07 62.11 23 7 47 3482.2 -31.24 170.65
 117.31 4 21 59 2895.23 -27.74 88.62 253.06 62.09 5 10 14 2295.2 -31.23 80.77
 62.69 21 59 45 4082.24 -27.75 178.50 253.07 62.11 23 7 47 3482.2 -31.24 170.65
 117.31 4 21 59 2895.23 -27.74 88.62 253.06 62.09 5 10 14 2295.2 -31.23 80.77
 62.69 21 59 45 4082.24 -27.75 178.50 253.07 62.11 23 7 47 3482.2 -31.24 170.65
 117.31 4 21 59 2895.23 -27.74 88.62 253.06 62.09 5 10 14 2295.2 -31.23 80.77

DIFFERENTIAL CORRECTIONS

TOE 2.3502 TRA 1.8465 TC3-3.1961 BAU .6966 SGT 5385.6 SGR 522.6 SG3 908.3 ST 3483.9 SR 498.9 SS 2202.0
 ROE .3499 RRA .0899 RC3 -.0082 FAU .09446 RRT .7885 RRF .7698 RTF .9884 CRT .9809 CRS -.9634 CST -.9971
 FDE 4.1903 FRA 4.2251 FC3-5.0157 BSP 17010 SGB 5410.9 R23 -.0200 R13 .9883 LSA 4147.7 MSA 177.4 SSA 11.6
 BOE 2.3761 BRA 1.8487 BC3 3.1961 FSP -3228 SG1 5401.4 SG2 320.5 THA 4.39 EL1 3518.1 EL2 96.0 ALF 8.00

LAUNCH DATE DEC 18 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.678 GAL 4.87 AZL 86.33 MCA 240.27 SMA 127.96 ECC .17217 INC 3.6733 VI 30.267
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.414 GAP 5.02 AZP 91.82 TAL 155.33 TAP 35.60 RCA 105.93 APO 149.99 V2 34.792
 RC 117.630 GL 25.49 GP -5.90 ZAL 52.68 ZAP 143.04 ETS 353.09 ZAE 132.23 ETE 184.34 ZAC 98.74 ETC 167.44 CLP-143.45

PLANETOCENTRIC CONIC

C3 16.851 VHL 4.105 DLA 38.14 RAL 25.81 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 4.179 DPA -7.17 RAP 6.47 ECC 1.2773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.30 22 8 27 4081.11 -27.25 178.11 254.85 62.20 23 16 28 3481.1 -30.73 170.29
 116.70 4 24 39 2911.48 -27.24 89.67 254.85 62.19 5 13 11 2311.5 -30.73 81.85
 63.30 22 8 27 4081.11 -27.25 178.11 254.85 62.20 23 16 28 3481.1 -30.73 170.29
 116.70 4 24 39 2911.48 -27.24 89.67 254.85 62.19 5 13 11 2311.5 -30.73 81.85
 63.30 22 8 27 4081.11 -27.25 178.11 254.85 62.20 23 16 28 3481.1 -30.73 170.29
 116.70 4 24 39 2911.48 -27.24 89.67 254.85 62.19 5 13 11 2311.5 -30.73 81.85

DIFFERENTIAL CORRECTIONS

TOE 2.4103 TRA 2.0110 TC3-3.1925 BAU .7192 SGT 5561.0 SGR 502.7 SG3 837.4 ST 3531.4 SR 484.8 SS 2087.0
 ROE .3460 RRA .0783 RC3 .0163 FAU .08545 RRT .7459 RRF .7272 RTF .9883 CRT .9752 CRS -.9556 CST -.9971
 FDE 3.8381 FRA 4.0727 FC3-4.3901 BSP 17571 SGB 5583.7 R23 -.0191 R13 .9882 LSA 4126.6 MSA 179.4 SSA 12.0
 BOE 2.4350 BRA 2.0125 BC3 3.1925 FSP -2968 SG1 5573.7 SG2 334.1 THA 3.87 EL1 3562.9 EL2 106.4 ALF 7.63

LAUNCH DATE DEC 18 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.661 GAL 5.10 AZL 86.37 MCA 243.43 SMA 127.85 ECC .17503 INC 3.6325 VI 30.267
 RP 108.91 LAP -3.23 LOP 329.53 VP 37.405 GAP 5.41 AZP 91.63 TAL 154.57 TAP 38.00 RCA 105.47 APO 150.22 V2 34.796
 RC 120.015 GL 24.68 GP -5.47 ZAL 51.55 ZAP 145.49 ETS 353.01 ZAE 130.97 ETE 183.68 ZAC 99.35 ETC 167.46 CLP-145.88

PLANETOCENTRIC CONIC

C3 17.479 VHL 4.181 DLA 37.74 RAL 27.26 RAD 6567.7 VEL 11.784 PTH 2.08 VHP 4.370 DPA -6.48 RAP 6.96 ECC 1.2877
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.93 22 17 21 4080.44 -26.72 177.74 256.71 62.28 23 25 22 3480.4 -30.20 169.96
 116.07 4 27 17 2929.03 -26.71 90.80 256.71 62.27 5 16 6 2329.0 -30.19 83.02
 63.93 22 17 21 4080.44 -26.72 177.74 256.71 62.28 23 25 22 3480.4 -30.20 169.96
 116.07 4 27 17 2929.03 -26.71 90.80 256.71 62.27 5 16 6 2329.0 -30.19 83.02
 63.93 22 17 21 4080.44 -26.72 177.74 256.71 62.28 23 25 22 3480.4 -30.20 169.96
 116.07 4 27 17 2929.03 -26.71 90.80 256.71 62.27 5 16 6 2329.0 -30.19 83.02

DIFFERENTIAL CORRECTIONS

TOE 2.4609 TRA 2.1781 TC3-3.1738 BAU .7417 SGT 5715.5 SGR 488.8 SG3 771.5 ST 3558.5 SR 474.6 SS 1974.6
 ROE .3454 RRA .0685 RC3 .0342 FAU .07757 RRT .7046 RRF .6859 RTF .9881 CRT .9689 CRS -.9472 CST -.9970
 FDE 3.5130 FRA 3.9237 FC3-3.8422 BSP 18168 SGB 5736.4 R23 -.0181 R13 .9881 LSA 4093.2 MSA 181.8 SSA 12.4
 BOE 2.4850 BRA 2.1792 BC3 3.1740 FSP -2749 SG1 5725.9 SG2 346.2 THA 3.46 EL1 3588.1 EL2 116.5 ALF 7.37

LAUNCH DATE DEC 18 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

RL 147.20 LAL .00 LOL 86.14 VL 27.644 GAL 5.35 AZL 86.41 MCA 246.59 SMA 127.73 ECC .17815 INC 3.5939 VI 30.267
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.596 GAP 5.80 AZP 91.43 TAL 153.77 TAP 40.36 RCA 104.97 APO 150.48 V2 34.800
 RC 122.394 GL 23.86 GP -5.09 ZAL 50.40 ZAP 147.79 ETS 352.94 ZAE 129.83 ETE 183.13 ZAC 100.12 ETC 167.50 CLP-148.15

PLANETOCENTRIC CONIC

C3 18.194 VHL 4.265 DLA 37.34 RAL 28.72 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.571 DPA -5.77 RAP 7.62 ECC 1.2994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.57 22 26 29 4080.16 -26.16 177.39 258.66 62.35 23 34 29 3480.2 -29.64 169.66
 115.43 4 29 50 2947.98 -26.15 92.02 258.65 62.34 5 18 58 2348.0 -29.63 84.28
 64.57 22 26 29 4080.16 -26.16 177.39 258.66 62.35 23 34 29 3480.2 -29.64 169.66
 115.43 4 29 50 2947.98 -26.15 92.02 258.65 62.34 5 18 58 2348.0 -29.63 84.28
 64.57 22 26 29 4080.16 -26.16 177.39 258.66 62.35 23 34 29 3480.2 -29.64 169.66
 115.43 4 29 50 2947.98 -26.15 92.02 258.65 62.34 5 18 58 2348.0 -29.63 84.28

DIFFERENTIAL CORRECTIONS

TOE 2.5069 TRA 2.3529 TC3-3.1329 BAU .7621 SGT 5855.5 SGR 479.9 SG3 711.5 ST 3573.3 SR 468.1 SS 1869.9
 ROE .3477 RRA .0608 RC3 .0473 FAU .07029 RRT .6667 RRF .6487 RTF .9879 CRT .9623 CRS -.9386 CST -.9970
 FDE 3.2218 FRA 3.7875 FC3-3.3445 BSP 18704 SGB 5875.1 R23 -.0166 R13 .9879 LSA 4055.9 MSA 184.8 SSA 12.6
 BOE 2.5309 BRA 2.3537 BC3 3.1332 FSP -2544 SG1 5864.2 SG2 357.2 THA 3.14 EL1 3601.6 EL2 126.4 ALF 7.19

LAUNCH DATE DEC 18 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 549.375

RL 147.20 LAL .00 LOL 86.14 VL 27.626 GAL 5.62 AZL 86.44 MCA 249.76 SMA 127.61 ECC .18153 INC 3.5571 V1 30.267
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.388 GAP 6.20 AZP 91.23 TAL 152.95 TAP 42.71 RCA 104.44 APO 150.77 V2 34.805
 RC 124.766 GL 23.03 GP -4.76 ZAL 49.23 ZAP 149.94 ETS 352.86 ZAE 128.81 ETE 182.67 ZAC 101.04 ETC 167.54 CLP-150.28

PLANETOCENTRIC CONIC

C3 19.005 VHL 4.359 OLA 36.93 RAL 30.20 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 4.780 DPA -5.03 RAP 8.42 ECC 1.3128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.23 22 35 50 4080.28 -25.58 177.06 260.67 62.40 23 43 50 3480.3 -29.06 169.37
 114.77 4 32 17 2968.34 -25.56 93.33 260.66 62.39 5 21 45 2368.3 -29.05 85.64
 65.23 22 35 50 4080.28 -25.58 177.06 260.67 62.40 23 43 50 3480.3 -29.06 169.37
 114.77 4 32 17 2968.34 -25.56 93.33 260.66 62.39 5 21 45 2368.3 -29.05 85.64
 65.23 22 35 50 4080.28 -25.58 177.06 260.67 62.40 23 43 50 3480.3 -29.06 169.37
 114.77 4 32 17 2968.34 -25.56 93.33 260.66 62.39 5 21 45 2368.3 -29.05 85.64

DIFFERENTIAL CORRECTIONS

TDE 2.5491 TRA 2.5365 TC3-3.0711 BAU .7804
 RDE .3526 RRA .0551 RC3 .0563 FAU .06354
 FDE 2.9605 FRA 3.6637 FC3-2.8943 BSP 19189
 BOE 2.5734 BRA 2.5371 BC3 3.0716 FSP -2354

MID-COURSE EXECUTION ACCURACY

SGT 5982.1 SGR 474.7 SG3 656.8
 RRT .6335 RRF .6165 RTF .9876
 SGB 6000.9 R23 -.0148 R13 .9876
 SG1 5989.7 SG2 366.9 TMA 2.89

ORBIT DETERMINATION ACCURACY

ST 3577.1 SR 464.2 SS 1772.1
 CRT .9554 CRS -.9299 CST -.9970
 LSA 4014.5 MSA 188.2 SSA 12.9
 EL1 3604.5 EL2 136.1 ALF 7.08

LAUNCH DATE DEC 18 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 555.303

RL 147.20 LAL .00 LOL 86.14 VL 27.607 GAL 5.91 AZL 86.48 MCA 252.92 SMA 127.48 ECC .18518 INC 3.5218 V1 30.267
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.379 GAP 6.61 AZP 91.04 TAL 152.10 TAP 45.03 RCA 103.87 APO 151.09 V2 34.811
 RC 127.128 GL 22.21 GP -4.46 ZAL 48.04 ZAP 151.96 ETS 352.77 ZAE 127.89 ETE 182.30 ZAC 102.09 ETC 167.58 CLP-152.29

PLANETOCENTRIC CONIC

C3 19.922 VHL 4.463 OLA 36.51 RAL 31.69 RAD 6567.8 VEL 11.887 PTH 2.11 VHP 4.999 DPA -4.28 RAP 9.34 ECC 1.3279
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.92 22 45 24 4080.70 -24.96 176.74 262.74 62.44 23 53 24 3480.7 -28.44 169.09
 114.08 4 34 34 2990.24 -24.95 94.74 262.74 62.43 5 24 25 2390.2 -28.43 87.09
 65.92 22 45 24 4080.70 -24.96 176.74 262.74 62.44 23 53 24 3480.7 -28.44 169.09
 114.08 4 34 34 2990.24 -24.95 94.74 262.74 62.43 5 24 25 2390.2 -28.43 87.09
 65.92 22 45 24 4080.70 -24.96 176.74 262.74 62.44 23 53 24 3480.7 -28.44 169.09
 114.08 4 34 34 2990.24 -24.95 94.74 262.74 62.43 5 24 25 2390.2 -28.43 87.09

DIFFERENTIAL CORRECTIONS

TDE 2.5875 TRA 2.7292 TC3-2.9916 BAU .7970
 RDE .3596 RRA .0513 RC3 .0618 FAU .05737
 FDE 2.7249 FRA 3.5505 FC3-2.4929 BSP 19635
 BOE 2.6124 BRA 2.7297 BC3 2.9922 FSP -2182

MID-COURSE EXECUTION ACCURACY

SGT 6096.3 SGR 472.1 SG3 606.9
 RRT .6056 RRF .5899 RTF .9873
 SGB 6114.6 R23 -.0129 R13 .9873
 SG1 6103.0 SG2 375.3 TMA 2.70

ORBIT DETERMINATION ACCURACY

ST 3570.5 SR 462.3 SS 1680.4
 CRT .9483 CRS -.9210 CST -.9970
 LSA 3968.5 MSA 192.0 SSA 13.0
 EL1 3597.4 EL2 145.6 ALF 7.01

LAUNCH DATE DEC 18 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 561.201

RL 147.20 LAL .00 LOL 86.14 VL 27.588 GAL 6.23 AZL 86.51 MCA 256.09 SMA 127.35 ECC .18914 INC 3.4876 V1 30.267
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.371 GAP 7.03 AZP 90.84 TAL 151.24 TAP 47.33 RCA 103.26 APO 151.43 V2 34.818
 RC 129.481 GL 21.37 GP -4.19 ZAL 46.84 ZAP 153.87 ETS 352.67 ZAE 127.07 ETE 181.99 ZAC 103.26 ETC 167.62 CLP-154.19

PLANETOCENTRIC CONIC

C3 20.957 VHL 4.578 OLA 36.08 RAL 33.17 RAD 6567.9 VEL 11.931 PTH 2.12 VHP 5.229 DPA -3.52 RAP 10.39 ECC 1.3449
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.63 22 55 11 4081.40 -24.31 176.42 264.88 62.47 24 3 12 3481.4 -27.80 168.82
 113.37 4 36 40 3013.74 -24.30 96.26 264.88 62.46 5 26 54 2413.7 -27.79 88.66
 66.63 22 55 11 4081.40 -24.31 176.42 264.88 62.47 24 3 12 3481.4 -27.80 168.82
 113.37 4 36 40 3013.74 -24.30 96.26 264.88 62.46 5 26 54 2413.7 -27.79 88.66
 66.63 22 55 11 4081.40 -24.31 176.42 264.88 62.47 24 3 12 3481.4 -27.80 168.82
 113.37 4 36 40 3013.74 -24.30 96.26 264.88 62.46 5 26 54 2413.7 -27.79 88.66

DIFFERENTIAL CORRECTIONS

TDE 2.6259 TRA 2.9357 TC3-2.8905 BAU .8100
 RDE .3687 RRA .0494 RC3 .0647 FAU .05148
 FDE 2.5176 FRA 3.4525 FC3-2.1267 BSP 19968
 BOE 2.6516 BRA 2.9361 BC3 2.8912 FSP -2014

MID-COURSE EXECUTION ACCURACY

SGT 6202.8 SGR 471.5 SG3 562.0
 RRT .5838 RRF .5698 RTF .9869
 SGB 6220.7 R23 -.0105 R13 .9869
 SG1 6209.0 SG2 382.5 TMA 2.55

ORBIT DETERMINATION ACCURACY

ST 3559.2 SR 462.1 SS 1597.6
 CRT .9412 CRS -.9124 CST -.9970
 LSA 3923.6 MSA 196.1 SSA 13.2
 EL1 3585.7 EL2 155.0 ALF 6.98

LAUNCH DATE DEC 18 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 567.064

RL 147.20 LAL .00 LOL 86.14 VL 27.568 GAL 6.56 AZL 86.55 MCA 259.26 SMA 127.21 ECC .19342 INC 3.4543 V1 30.267
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.363 GAP 7.46 AZP 90.64 TAL 150.35 TAP 49.61 RCA 102.61 APO 151.82 V2 34.825
 RC 131.823 GL 20.54 GP -3.96 ZAL 45.63 ZAP 155.68 ETS 352.53 ZAE 126.32 ETE 181.73 ZAC 104.53 ETC 167.65 CLP-155.99

PLANETOCENTRIC CONIC

C3 22.123 VHL 4.703 OLA 35.65 RAL 34.66 RAD 6567.9 VEL 11.979 PTH 2.14 VHP 5.469 DPA -2.73 RAP 11.53 ECC 1.3641
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.38 23 5 13 4082.18 -23.63 176.10 267.08 62.50 24 13 15 3482.2 -27.12 168.55
 112.62 4 38 29 3039.07 -23.62 97.89 267.07 62.49 5 29 9 2439.1 -27.11 90.34
 67.38 23 5 13 4082.18 -23.63 176.10 267.08 62.50 24 13 15 3482.2 -27.12 168.55
 112.62 4 38 29 3039.07 -23.62 97.89 267.07 62.49 5 29 9 2439.1 -27.11 90.34
 67.38 23 5 13 4082.18 -23.63 176.10 267.08 62.50 24 13 15 3482.2 -27.12 168.55
 112.62 4 38 29 3039.07 -23.62 97.89 267.07 62.49 5 29 9 2439.1 -27.11 90.34

DIFFERENTIAL CORRECTIONS

TDE 2.6581 TRA 3.1493 TC3-2.7824 BAU .8232
 RDE .3792 RRA .0490 RC3 .0649 FAU .04631
 FDE 2.3261 FRA 3.3589 FC3-1.8122 BSP 20356
 BOE 2.6850 BRA 3.1497 BC3 2.7832 FSP -1871

MID-COURSE EXECUTION ACCURACY

SGT 6294.7 SGR 471.7 SG3 520.5
 RRT .5667 RRF .5542 RTF .9865
 SGB 6312.4 R23 -.0086 R13 .9865
 SG1 6300.4 SG2 388.3 TMA 2.44

ORBIT DETERMINATION ACCURACY

ST 3535.1 SR 462.5 SS 1517.4
 CRT .9339 CRS -.9037 CST -.9970
 LSA 3869.5 MSA 200.6 SSA 13.2
 EL1 3561.4 EL2 164.1 ALF 6.98

LAUNCH DATE DEC 18 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 572.892

RL 147.20 LAL .00 LOL 86.14 VL 27.547 GAL 6.92 AZL 86.58 MCA 262.43 SMA 127.08 ECC .19804 INC 3.4217 V1 30.267
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.355 GAP 7.90 AZP 90.45 TAL 149.45 TAP 51.88 RCA 101.91 APO 152.24 V2 34.833
 RC 134.153 GL 19.70 GP -3.74 ZAL 44.41 ZAP 157.40 ETS 352.37 ZAE 125.64 ETE 181.51 ZAC 105.89 ETC 167.68 CLP-157.70

PLANETOCENTRIC CONIC

C3 23.436 VHL 4.841 DLA 35.20 RAL 36.14 RAD 6568.0 VEL 12.034 PTH 2.15 VHP 5.720 DPA -1.94 RAP 12.77 ECC 1.3857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.15 23 15 30 4083.09 -22.92 175.77 269.33 62.52 24 23 33 3483.1 -26.41 168.26
 111.85 4 40 1 3066.21 -22.91 99.64 269.32 62.51 5 31 8 2466.2 -26.40 92.14
 68.15 23 15 30 4083.09 -22.92 175.77 269.33 62.52 24 23 33 3483.1 -26.41 168.26
 111.85 4 40 1 3066.21 -22.91 99.64 269.32 62.51 5 31 8 2466.2 -26.40 92.14
 68.15 23 15 30 4083.09 -22.92 175.77 269.33 62.52 24 23 33 3483.1 -26.41 168.26
 111.85 4 40 1 3066.21 -22.91 99.64 269.32 62.51 5 31 8 2466.2 -26.40 92.14

DIFFERENTIAL CORRECTIONS

TOE 2.6885 TRA 3.3758 TC3-2.6619 BAU .8343
 RDE .3911 RRA .0504 RC3 .0633 FAU .04154
 FDE 2.1540 FRA 3.2754 FC3-1.5343 BSP 20700
 BOE 2.7168 BRA 3.3762 BC3 2.6627 FSP -1739

MID-COURSE EXECUTION ACCURACY

SGT 6377.7 SGR 472.6 SG3 482.7
 RRT .5547 RRF .5436 RTF .9861
 SGB 6395.2 R23 -.0065 R13 .9861
 SG1 6383.1 SG2 392.9 THA 2.36

ORBIT DETERMINATION ACCURACY

ST 3504.6 SR 463.4 SS 1443.2
 CRT .9266 CRS -.8950 CST -.9970
 LSA 3812.8 MSA 205.3 SSA 13.2
 EL1 3530.9 EL2 173.0 ALF 7.00

LAUNCH DATE DEC 18 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 578.679

RL 147.20 LAL .00 LOL 86.14 VL 27.527 GAL 7.30 AZL 86.61 MCA 265.60 SMA 126.94 ECC .20304 INC 3.3896 V1 30.267
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.348 GAP 8.37 AZP 90.26 TAL 148.34 TAP 54.14 RCA 101.16 APO 152.71 V2 34.841
 RC 136.471 GL 18.87 GP -3.55 ZAL 43.19 ZAP 159.05 ETS 352.17 ZAE 125.02 ETE 181.34 ZAC 107.34 ETC 167.70 CLP-159.34

PLANETOCENTRIC CONIC

C3 24.916 VHL 4.992 DLA 34.75 RAL 37.61 RAD 6568.0 VEL 12.095 PTH 2.16 VHP 5.984 DPA -1.13 RAP 14.09 ECC 1.4100
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.97 23 26 1 4083.99 -22.18 175.42 271.63 62.54 24 34 5 3484.0 -25.68 167.97
 111.03 4 41 12 3095.32 -22.17 101.52 271.62 62.53 5 32 48 2495.3 -25.66 94.06
 68.97 23 26 1 4083.99 -22.18 175.42 271.63 62.54 24 34 5 3484.0 -25.68 167.97
 111.03 4 41 12 3095.32 -22.17 101.52 271.62 62.53 5 32 48 2495.3 -25.66 94.06
 68.97 23 26 1 4083.99 -22.18 175.42 271.63 62.54 24 34 5 3484.0 -25.68 167.97
 111.03 4 41 12 3095.32 -22.17 101.52 271.62 62.53 5 32 48 2495.3 -25.66 94.06

DIFFERENTIAL CORRECTIONS

TOE 2.7169 TRA 3.6152 TC3-2.5311 BAU .8434
 RDE .4042 RRA .0535 RC3 .0603 FAU .03712
 FDE 1.9986 FRA 3.2001 FC3-1.2899 BSP 21021
 BOE 2.7468 BRA 3.6156 BC3 2.5318 FSP -1618

MID-COURSE EXECUTION ACCURACY

SGT 6451.0 SGR 473.8 SG3 448.2
 RRT .5471 RRF .5375 RTF .9857
 SGB 6468.4 R23 -.0046 R13 .9857
 SG1 6456.2 SG2 396.2 THA 2.31

ORBIT DETERMINATION ACCURACY

ST 3468.0 SR 464.5 SS 1374.0
 CRT .9192 CRS -.8865 CST -.9970
 LSA 3753.1 MSA 210.1 SSA 13.2
 EL1 3494.2 EL2 181.5 ALF 7.04

LAUNCH DATE DEC 18 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 584.423

RL 147.20 LAL .00 LOL 86.14 VL 27.505 GAL 7.72 AZL 86.64 MCA 268.77 SMA 126.80 ECC .20845 INC 3.3577 V1 30.267
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.341 GAP 8.85 AZP 90.07 TAL 147.62 TAP 56.39 RCA 100.37 APO 153.23 V2 34.850
 RC 138.775 GL 18.04 GP -3.38 ZAL 41.98 ZAP 160.62 ETS 351.91 ZAE 124.46 ETE 181.19 ZAC 108.85 ETC 167.70 CLP-160.90

PLANETOCENTRIC CONIC

C3 26.584 VHL 5.156 DLA 34.28 RAL 39.06 RAD 6568.1 VEL 12.164 PTH 2.18 VHP 6.261 DPA -.32 RAP 15.47 ECC 1.4375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.82 23 36 49 4084.80 -21.41 175.05 273.97 62.56 24 44 54 3484.8 -24.91 167.65
 110.18 4 41 59 3126.55 -21.39 103.54 273.96 62.55 5 34 5 2526.5 -24.90 96.13
 69.82 23 36 49 4084.80 -21.41 175.05 273.97 62.56 24 44 54 3484.8 -24.91 167.65
 110.18 4 41 59 3126.55 -21.39 103.54 273.96 62.55 5 34 5 2526.5 -24.90 96.13
 69.82 23 36 49 4084.80 -21.41 175.05 273.97 62.56 24 44 54 3484.8 -24.91 167.65
 110.18 4 41 59 3126.55 -21.39 103.54 273.96 62.55 5 34 5 2526.5 -24.90 96.13

DIFFERENTIAL CORRECTIONS

TOE 2.7483 TRA 3.8730 TC3-2.3863 BAU .8483
 RDE .4184 RRA .0585 RC3 .0566 FAU .03288
 FDE 1.8621 FRA 3.1364 FC3-1.0708 BSP 21214
 BOE 2.7800 BRA 3.8735 BC3 2.3870 FSP -1498

MID-COURSE EXECUTION ACCURACY

SGT 6520.4 SGR 475.2 SG3 417.0
 RRT .5443 RRF .5361 RTF .9853
 SGB 6537.6 R23 -.0026 R13 .9853
 SG1 6525.5 SG2 398.3 THA 2.28

ORBIT DETERMINATION ACCURACY

ST 3431.5 SR 465.6 SS 1312.3
 CRT .9119 CRS -.8783 CST -.9971
 LSA 3697.0 MSA 214.8 SSA 13.1
 EL1 3457.7 EL2 189.6 ALF 7.07

LAUNCH DATE DEC 18 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 590.117

RL 147.20 LAL .00 LOL 86.14 VL 27.484 GAL 8.16 AZL 86.67 MCA 271.94 SMA 126.65 ECC .21430 INC 3.3259 V1 30.267
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.334 GAP 9.35 AZP 89.89 TAL 146.69 TAP 58.63 RCA 99.51 APO 153.80 V2 34.860
 RC 141.067 GL 17.21 GP -3.23 ZAL 40.78 ZAP 162.13 ETS 351.60 ZAE 123.95 ETE 181.08 ZAC 110.42 ETC 167.68 CLP-162.42

PLANETOCENTRIC CONIC

C3 28.466 VHL 5.335 DLA 33.81 RAL 40.49 RAD 6568.1 VEL 12.241 PTH 2.20 VHP 6.554 DPA .50 RAP 16.92 ECC 1.4685
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.71 23 47 55 4085.37 -20.61 174.65 276.35 62.59 24 56 1 3485.4 -24.11 167.29
 109.29 4 42 18 3160.04 -20.59 105.70 276.34 62.58 5 34 58 2560.0 -24.10 98.34
 70.71 23 47 55 4085.37 -20.61 174.65 276.35 62.59 24 56 1 3485.4 -24.11 167.29
 109.29 4 42 18 3160.04 -20.59 105.70 276.34 62.58 5 34 58 2560.0 -24.10 98.34
 110.00 5 25 0 3029.56 -24.34 97.53 278.33 65.23 6 15 30 2429.6 -27.47 89.76
 110.00 4 8 19 3263.84 -16.94 111.67 274.23 59.86 5 2 43 2663.8 -20.82 104.69

DIFFERENTIAL CORRECTIONS

TOE 2.7743 TRA 4.1421 TC3-2.2420 BAU .8535
 RDE .4333 RRA .0651 RC3 .0519 FAU .02916
 FDE 1.7347 FRA 3.0762 FC3 -.8869 BSP 21495
 BOE 2.8079 BRA 4.1426 BC3 2.2426 FSP -1398

MID-COURSE EXECUTION ACCURACY

SGT 6577.1 SGR 476.1 SG3 388.1
 RRT .5442 RRF .5372 RTF .9850
 SGB 6594.3 R23 -.0009 R13 .9850
 SG1 6582.2 SG2 399.1 THA 2.26

ORBIT DETERMINATION ACCURACY

ST 3385.3 SR 466.0 SS 1252.6
 CRT .9044 CRS -.8700 CST -.9971
 LSA 3633.0 MSA 219.6 SSA 13.0
 EL1 3411.6 EL2 197.4 ALF 7.12

LAUNCH DATE DEC 18 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 595.756

RL 147.20 LAL .00 LOL 86.14 VL 27.462 GAL 8.64 AZL 86.71 MCA 275.12 SMA 126.51 ECC .22065 INC 3.2940 V1 30.267
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.327 GAP 9.87 A2P 89.71 TAL 145.76 TAP 60.88 RCA 98.59 APO 154.42 V2 34.870
 RC 143.344 GL 16.38 GP -3.09 ZAL 39.59 ZAP 163.59 ETS 351.21 ZAE 123.47 ETE 180.98 ZAC 112.05 ETC 167.65 CLP-163.88

PLANETOCENTRIC CONIC

C3 30.594 VHL 5.531 OLA 33.32 RAL 41.89 RAD 6568.2 VEL 12.328 PTH 2.22 VHP 6.863 OPA 1.33 RAP 18.43 ECC 1.5035
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.65 0 3 16 4085.59 -19.77 174.21 278.77 62.61 1 11 22 3485.6 -23.28 166.90
 108.35 4 42 5 3195.92 -19.76 108.02 278.76 62.60 5 35 21 2595.9 -23.27 100.71
 71.65 0 3 16 4085.59 -19.77 174.21 278.77 62.61 1 11 22 3485.6 -23.28 166.90
 108.35 4 42 5 3195.92 -19.76 108.02 278.76 62.60 5 35 21 2595.9 -23.27 100.71
 110.00 5 50 10 2987.17 -25.52 94.80 281.74 66.45 6 39 57 2387.2 -28.48 86.87
 110.00 3 54 21 3342.33 -14.21 116.11 275.49 58.58 4 50 4 2742.3 -18.26 109.34

DIFFERENTIAL CORRECTIONS

TDE 2.8006 TRA 4.4286 TC3-2.0920 BAU .8559
 RDE .4490 RRA .0734 RC3 .0469 FAU .02569
 FDE 1.6203 FRA 3.0237 FC3 -.7271 BSP 21740
 BOE 2.8363 BRA 4.4292 BC3 2.0925 FSP -1304

MID-COURSE EXECUTION ACCURACY

SGT 6626.7 SGR 476.7 SG3 361.6
 RRT .5472 RRF .5413 RTF .9847
 SGB 6643.8 R23 .0006 R13 .9847
 SG1 6631.8 SG2 398.7 THA 2.26

ORBIT DETERMINATION ACCURACY

ST 3336.7 SR 465.9 SS 1198.0
 CRT .8968 CRS -.8619 CST -.9972
 LSA 3568.7 MSA 224.1 SSA 12.9
 EL1 3362.8 EL2 204.5 ALF 7.16

LAUNCH DATE DEC 18 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 601.332

RL 147.20 LAL .00 LOL 86.14 VL 27.440 GAL 9.15 AZL 86.74 MCA 278.30 SMA 126.36 ECC .22753 INC 3.2617 V1 30.267
 RP 108.65 LAP -3.23 LOP 4.45 VP 37.320 GAP 10.43 A2P 89.53 TAL 144.83 TAP 63.12 RCA 97.61 APO 155.11 V2 34.880
 RC 145.608 GL 15.56 GP -2.96 ZAL 38.41 ZAP 165.01 ETS 350.72 ZAE 123.03 ETE 180.91 ZAC 113.72 ETC 167.60 CLP-165.29

PLANETOCENTRIC CONIC

C3 33.005 VHL 5.745 OLA 32.83 RAL 43.27 RAD 6568.3 VEL 12.425 PTH 2.25 VHP 7.190 OPA 2.16 RAP 19.98 ECC 1.5432
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.64 0 15 5 4085.14 -18.91 173.70 281.22 62.65 1 23 10 3485.1 -22.42 166.43
 107.36 4 41 14 3234.53 -18.90 110.53 281.21 62.64 5 35 9 2634.5 -22.41 103.26
 72.64 0 15 5 4085.14 -18.91 173.70 281.22 62.65 1 23 10 3485.1 -22.42 166.43
 107.36 4 41 14 3234.53 -18.90 110.53 281.21 62.64 5 35 9 2634.5 -22.41 103.26
 110.00 6 10 16 2960.59 -26.24 93.06 284.92 67.26 6 59 36 2360.6 -29.08 85.04
 110.00 3 45 14 3407.08 -11.88 119.68 277.05 57.71 4 42 1 2807.1 -16.06 113.06

DIFFERENTIAL CORRECTIONS

TDE 2.8271 TRA 4.7339 TC3-1.9384 BAU .8555
 RDE .4652 RRA .0836 RC3 .0417 FAU .02246
 FDE 1.5169 FRA 2.9782 FC3 -.5892 BSP 21959
 BOE 2.8651 BRA 4.7346 BC3 1.9388 FSP -1218

MID-COURSE EXECUTION ACCURACY

SGT 6669.4 SGR 476.9 SG3 337.3
 RRT .5530 RRF .5479 RTF .9845
 SGB 6686.4 R23 .0019 R13 .9845
 SG1 6674.6 SG2 397.0 THA 2.27

ORBIT DETERMINATION ACCURACY

ST 3285.7 SR 465.0 SS 1147.7
 CRT .8891 CRS -.8538 CST -.9973
 LSA 3503.8 MSA 228.3 SSA 12.7
 EL1 3311.7 EL2 211.1 ALF 7.20

LAUNCH DATE DEC 18 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 606.836

RL 147.20 LAL .00 LOL 86.14 VL 27.418 GAL 9.70 AZL 86.77 MCA 281.48 SMA 126.22 ECC .23501 INC 3.2288 V1 30.267
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.314 GAP 11.01 A2P 89.36 TAL 143.90 TAP 65.38 RCA 96.55 APO 155.88 V2 34.891
 RC 147.857 GL 14.75 GP -2.84 ZAL 37.26 ZAP 166.38 ETS 350.10 ZAE 122.61 ETE 180.85 ZAC 115.43 ETC 167.53 CLP-166.68

PLANETOCENTRIC CONIC

C3 35.742 VHL 5.978 OLA 32.33 RAL 44.61 RAD 6568.4 VEL 12.534 PTH 2.27 VHP 7.537 OPA 2.99 RAP 21.58 ECC 1.5882
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.70 0 27 20 4083.83 -18.02 173.12 283.70 62.69 1 35 24 3483.8 -21.54 165.90
 106.30 4 39 41 3276.05 -18.00 113.22 283.69 62.68 5 34 17 2676.1 -21.52 106.00
 73.70 0 27 20 4083.83 -18.02 173.12 283.70 62.69 1 35 24 3483.8 -21.54 165.90
 106.30 4 39 41 3276.05 -18.00 113.22 283.69 62.68 5 34 17 2676.1 -21.52 106.00
 110.00 6 27 52 2941.98 -26.72 91.83 288.03 67.84 7 16 54 2342.0 -29.48 83.74
 110.00 3 38 19 3465.90 -9.72 122.87 278.75 57.07 4 36 5 2865.9 -13.99 116.37

DIFFERENTIAL CORRECTIONS

TDE 2.8550 TRA 5.0598 TC3-1.7821 BAU .8517
 RDE .4821 RRA .0956 RC3 .0367 FAU .01943
 FDE 1.4241 FRA 2.9398 FC3 -.4706 BSP 22144
 BOE 2.8954 BRA 5.0607 BC3 1.7825 FSP -1137

MID-COURSE EXECUTION ACCURACY

SGT 6705.5 SGR 476.6 SG3 315.1
 RRT .5610 RRF .5566 RTF .9844
 SGB 6722.4 R23 .0030 R13 .9844
 SG1 6710.8 SG2 394.2 THA 2.29

ORBIT DETERMINATION ACCURACY

ST 3233.4 SR 463.1 SS 1102.0
 CRT .8815 CRS -.8460 CST -.9974
 LSA 3439.4 MSA 232.1 SSA 12.5
 EL1 3259.2 EL2 217.0 ALF 7.23

LAUNCH DATE DEC 18 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 612.259

RL 147.20 LAL .00 LOL 86.14 VL 27.395 GAL 10.29 AZL 86.80 MCA 284.66 SMA 126.07 ECC .24315 INC 3.1952 V1 30.267
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.308 GAP 11.63 A2P 89.19 TAL 142.99 TAP 67.65 RCA 95.42 APO 156.72 V2 34.902
 RC 150.092 GL 13.95 GP -2.74 ZAL 36.13 ZAP 167.72 ETS 349.32 ZAE 122.22 ETE 180.80 ZAC 117.18 ETC 167.43 CLP-168.03

PLANETOCENTRIC CONIC

C3 38.858 VHL 6.234 OLA 31.83 RAL 45.91 RAD 6568.5 VEL 12.658 PTH 2.30 VHP 7.908 OPA 3.82 RAP 23.22 ECC 1.6395
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.83 0 40 4 4081.41 -17.10 172.44 286.21 62.74 1 48 5 3481.4 -20.62 165.26
 105.17 4 37 20 3320.72 -17.09 116.13 286.20 62.74 5 32 41 2720.7 -20.61 108.95
 74.83 0 40 4 4081.41 -17.10 172.44 286.21 62.74 1 48 5 3481.4 -20.62 165.26
 105.17 4 37 20 3320.72 -17.09 116.13 286.20 62.74 5 32 41 2720.7 -20.61 108.95
 110.00 6 43 51 2928.61 -27.06 90.94 291.09 68.27 7 32 40 2328.6 -29.76 82.80
 110.00 3 32 43 3521.52 -7.65 125.84 280.55 56.58 4 31 25 2921.5 -11.99 119.44

DIFFERENTIAL CORRECTIONS

TDE 2.8875 TRA 5.4114 TC3-1.6223 BAU .8430
 RDE .4994 RRA .1097 RC3 .0321 FAU .01649
 FDE 1.3424 FRA 2.9099 FC3 -.3675 BSP 22237
 BOE 2.9304 BRA 5.4125 BC3 1.6226 FSP -1059

MID-COURSE EXECUTION ACCURACY

SGT 6738.2 SGR 475.8 SG3 294.8
 RRT .5714 RRF .5677 RTF .9843
 SGB 6755.0 R23 .0041 R13 .9843
 SG1 6743.7 SG2 390.2 THA 2.32

ORBIT DETERMINATION ACCURACY

ST 3183.0 SR 460.4 SS 1061.7
 CRT .8739 CRS -.8387 CST -.9976
 LSA 3378.7 MSA 235.2 SSA 12.3
 EL1 3208.5 EL2 222.0 ALF 7.24

LAUNCH DATE DEC 19 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 27 1969

MELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 18.188 GAL 19.17 AZL 86.05 MCA 45.63 SMA 90.13 ECC .68224 INC 3.9541 V1 30.269
 RP 107.48 LAP 2.83 LOP 132.72 VP 31.577 GAP -41.84 AZP 87.23 TAL 170.40 TAP 216.03 RCA 28.64 APO 151.61 V2 35.259
 RC 69.241 GL 4.68 GP .86 ZAL 65.16 ZAP 29.13 ETS 181.28 ZAE 141.03 ETE 190.15 ZAC 76.69 ETC 165.32 CLP 29.12

PLANETOCENTRIC CONIC
 C3 211.059 VML 14.528 DLA 12.94 RAL 18.64 RAD 6571.2 VEL 18.231 PTH 3.02 VHP 24.119 DPA -9.44 RAP 344.26 ECC 4.4735
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 18 3155.20 -26.66 107.59 284.71 80.07 5 56 53 2555.2 -27.76 99.09
 90.00 20 23 42 4971.63 22.14 217.72 272.92 71.88 21 46 34 4371.6 19.46 210.08
 100.00 6 32 21 2871.24 -28.38 87.04 285.04 80.20 7 20 12 2271.2 -29.44 78.39
 100.00 21 38 21 4730.83 23.80 199.42 272.32 71.36 22 57 11 4130.8 21.04 191.72
 110.00 7 55 41 2610.44 -32.99 68.14 285.96 80.49 8 39 12 2010.4 -33.95 59.04
 110.00 22 31 29 4564.39 28.21 185.07 270.59 69.85 23 47 33 3964.4 25.21 177.18

DIFFERENTIAL CORRECTIONS
 TDE -.6893 TRA-1.7627 TC3 -.1134 BAU .3238 SGT 831.4 SGR 447.5 SG3 29.4 ST 346.1 SR 410.2 SS 335.2
 RDE -1.0312 RRA .4442 RC3 -.0176 FAU .01284 RRT -.0022 RRF -.0007 RTF -.6365 CRT .6975 CRS .7896 CST .9888
 FDE .3522 FRA .6676 FC3 -.0527 BSP 2222 SGB 944.2 R23 .0027 R13 .6365 LSA 591.3 MSA 225.0 SSA 13.8
 BOE 1.2403 BRA 1.8178 BC3 .1148 FSP -62 SG1 831.4 SG2 447.5 THA 179.90 EL1 496.0 EL2 205.1 ALF 51.88

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 72.00

ARRIVAL DATE MAR 1 1969

MELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 18.876 GAL 18.34 AZL 86.11 MCA 48.88 SMA 91.71 ECC .65471 INC 3.8875 V1 30.269
 RP 107.48 LAP 2.93 LOP 135.97 VP 31.977 GAP -39.89 AZP 87.44 TAL 169.61 TAP 218.49 RCA 31.67 APO 151.76 V2 35.258
 RC 67.184 GL 5.03 GP .89 ZAL 64.01 ZAP 27.60 ETS 181.54 ZAE 141.52 ETE 190.74 ZAC 78.35 ETC 165.49 CLP 27.59

PLANETOCENTRIC CONIC
 C3 191.921 VML 13.854 DLA 13.71 RAL 19.61 RAD 6571.0 VEL 17.699 PTH 2.98 VHP 23.162 DPA -8.76 RAP 345.86 ECC 4.1585
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 1 30 3166.97 -26.52 108.42 284.89 79.68 5 54 17 2567.0 -27.67 99.94
 90.00 20 34 15 4930.57 21.25 215.05 272.71 70.83 21 56 26 4330.6 18.44 207.50
 100.00 6 30 3 2881.37 -28.26 87.77 285.24 79.83 7 18 5 2281.4 -29.38 79.14
 100.00 21 48 23 4691.40 22.92 196.82 272.07 70.27 23 6 34 4091.4 20.02 189.23
 110.00 7 54 29 2617.17 -32.91 68.65 286.19 80.20 8 38 7 2017.2 -33.92 59.56
 110.00 22 40 26 4528.37 27.34 182.63 270.24 68.64 23 55 54 3928.4 24.19 174.87

DIFFERENTIAL CORRECTIONS
 TDE -.6901 TRA-1.7694 TC3 -.1202 BAU .3124 SGT 871.6 SGR 452.2 SG3 31.9 ST 364.2 SR 415.0 SS 350.9
 RDE -.9949 RRA .4216 RC3 -.0196 FAU .01301 RRT .0009 RRF -.0036 RTF -.6558 CRT .6967 CRS .7906 CST .9885
 FDE .3661 FRA .6918 FC3 -.0587 BSP 2338 SGB 981.9 R23 -.0027 R13 -.6558 LSA 611.9 MSA 231.1 SSA 14.0
 BOE 1.2108 BRA 1.8189 BC3 .1218 FSP -68 SG1 871.6 SG2 452.2 THA .04 EL1 509.5 EL2 212.8 ALF 50.33

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 74.00

ARRIVAL DATE MAR 3 1969

MELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 19.519 GAL 17.55 AZL 86.17 MCA 52.12 SMA 93.30 ECC .62774 INC 3.8272 V1 30.269
 RP 107.48 LAP 3.02 LOP 139.22 VP 32.359 GAP -38.04 AZP 87.65 TAL 168.84 TAP 220.97 RCA 34.73 APO 151.88 V2 35.257
 RC 65.159 GL 5.39 GP .92 ZAL 62.92 ZAP 26.09 ETS 181.81 ZAE 142.11 ETE 191.37 ZAC 80.02 ETC 165.65 CLP 26.07

PLANETOCENTRIC CONIC
 C3 174.610 VML 13.214 DLA 14.46 RAL 20.52 RAD 6570.9 VEL 17.203 PTH 2.94 VHP 22.240 DPA -8.06 RAP 347.47 ECC 3.8736
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 28 3177.92 -26.38 109.19 284.94 79.31 5 51 26 2577.9 -27.59 100.73
 90.00 20 44 36 4888.88 20.29 212.36 272.44 69.82 22 6 4 4288.9 17.36 204.91
 100.00 6 27 32 2890.64 -28.15 88.43 285.32 79.50 7 15 43 2290.6 -29.31 79.82
 100.00 21 58 12 4651.38 21.98 194.23 271.77 69.21 23 15 43 4051.4 18.95 186.74
 110.00 7 53 6 2622.96 -32.85 69.09 286.30 79.95 8 36 48 2023.0 -33.88 60.01
 110.00 22 49 8 4491.83 26.41 180.19 269.84 67.47 24 4 0 3891.8 23.13 172.57

DIFFERENTIAL CORRECTIONS
 TDE -.6891 TRA-1.7735 TC3 -.1264 BAU .2994 SGT 911.9 SGR 456.2 SG3 34.6 ST 382.3 SR 419.2 SS 366.8
 RDE -.9588 RRA .3991 RC3 -.0219 FAU .01322 RRT .0039 RRF -.0066 RTF -.6745 CRT .6956 CRS .7917 CST .9881
 FDE .3801 FRA .7161 FC3 -.0656 BSP 2512 SGB 1019.6 R23 -.0032 R13 -.6745 LSA 632.5 MSA 236.9 SSA 14.2
 BOE 1.1808 BRA 1.8179 BC3 .1283 FSP -76 SG1 911.9 SG2 456.2 THA .15 EL1 522.8 EL2 220.2 ALF 48.78

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 5 1969

MELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 20.119 GAL 16.78 AZL 86.23 MCA 55.37 SMA 94.89 ECC .60143 INC 3.7719 V1 30.269
 RP 107.49 LAP 3.10 LOP 142.47 VP 32.722 GAP -36.29 AZP 87.85 TAL 168.09 TAP 223.46 RCA 37.82 APO 151.96 V2 35.254
 RC 63.173 GL 5.77 GP .95 ZAL 61.89 ZAP 24.60 ETS 182.12 ZAE 142.82 ETE 192.05 ZAC 81.72 ETC 165.80 CLP 24.58

PLANETOCENTRIC CONIC
 C3 158.935 VML 12.607 DLA 15.20 RAL 21.38 RAD 6570.7 VEL 16.741 PTH 2.90 VHP 21.351 DPA -7.35 RAP 349.09 ECC 3.6157
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 11 3188.10 -26.25 109.91 284.88 78.98 5 48 19 2588.1 -27.51 101.47
 90.00 20 54 45 4846.52 19.27 209.67 272.12 68.84 22 15 31 4246.5 16.23 202.32
 100.00 6 24 48 2899.09 -28.04 89.04 285.27 79.20 7 13 7 2299.1 -29.25 80.44
 100.00 22 7 49 4610.76 20.97 191.63 271.41 68.20 23 24 40 4010.8 17.83 184.24
 110.00 7 51 29 2627.85 -32.79 69.46 286.29 79.74 8 35 17 2027.8 -33.85 60.39
 110.00 22 57 37 4454.77 25.42 177.77 269.38 66.34 24 11 52 3854.8 22.01 170.28

DIFFERENTIAL CORRECTIONS
 TDE -.6882 TRA-1.7764 TC3 -.1323 BAU .2857 SGT 953.4 SGR 459.5 SG3 37.5 ST 401.1 SR 422.8 SS 383.2
 RDE -.9229 RRA .3767 RC3 -.0243 FAU .01345 RRT .0072 RRF -.0102 RTF -.6927 CRT .6948 CRS .7930 CST .9877
 FDE .3946 FRA .7408 FC3 -.0733 BSP 2698 SGB 1058.3 R23 -.0037 R13 -.6927 LSA 653.9 MSA 242.3 SSA 14.4
 BOE 1.1512 BRA 1.8159 BC3 .1345 FSP -84 SG1 953.4 SG2 459.5 THA .26 EL1 536.7 EL2 227.3 ALF 47.16

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 162.435

RL 147.19 LAL .00 LOL 87.16 VL 20.681 GAL 16.04 AZL 86.28 MCA 58.62 SMA 96.47 ECC .57584 INC 3.7209 V1 30.269
 RP 107.50 LAP 3.18 LOP 145.72 VP 33.067 GAP -34.62 AZP 88.06 TAL 167.36 TAP 223.98 RCA 40.92 APO 152.03 V2 35.251
 RC 61.231 GL 6.15 GP .98 ZAL 60.93 ZAP 23.13 ETS 182.45 ZAE 143.65 ETE 192.79 ZAC 83.43 ETC 165.94 CLP 23.11

PLANETOCENTRIC CONIC

C3 144.731 VHL 12.030 DLA 15.92 RAL 22.19 RAD 6570.6 VEL 16.311 PTH 2.86 VHP 20.492 DPA -6.62 RAP 350.71 ECC 3.3819
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 51 37 3197.58 -26.12 110.57 284.69 78.67 5 44 55 2597.6 -27.42 102.15
 90.00 21 4 44 4803.46 18.19 206.97 271.75 67.92 22 24 47 4203.5 15.04 199.72
 100.00 6 21 48 2906.76 -27.94 89.59 285.10 78.93 7 10 15 2306.8 -29.19 81.00
 100.00 22 17 14 4569.51 19.91 189.03 271.00 67.23 23 33 24 3969.5 16.65 181.75
 110.00 7 49 39 2631.87 -32.74 69.77 286.15 79.57 8 33 31 2031.9 -33.83 60.70
 110.00 23 5 52 4417.16 24.38 175.35 268.88 65.26 24 19 29 3817.2 20.83 167.99

DIFFERENTIAL CORRECTIONS

TDE -.6906 TRA-1.7816 TC3 -.1386 BAU .2732
 RDE -.8871 RRA .3546 RC3 -.0268 FAU .01370
 FDE .4101 FRA .7664 FC3 -.0819 BSP 2020
 BOE 1.1242 BRA 1.8165 BC3 .1412 FSP -92

MID-COURSE EXECUTION ACCURACY

SGT 999.0 SGR 462.1 SG3 40.6
 RRT .0120 RRF -.0144 RTF -.7097
 SGB 1100.7 R23 -.0036 R13 -.7097
 SG1 999.0 SG2 462.0 THA .40

ORBIT DETERMINATION ACCURACY

ST 422.3 SR 425.8 SS 400.4
 CRT .6954 CRS .7945 CST .9876
 LSA 677.3 MSA 247.1 SSA 14.6
 EL1 552.1 EL2 234.0 ALF 45.34

LAUNCH DATE DEC 19 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 168.689

RL 147.19 LAL .00 LOL 87.16 VL 21.206 GAL 15.33 AZL 86.33 MCA 61.86 SMA 98.04 ECC .55102 INC 3.6733 V1 30.269
 RP 107.51 LAP 3.24 LOP 148.98 VP 33.394 GAP -33.03 AZP 88.27 TAL 166.66 TAP 228.52 RCA 44.02 APO 152.06 V2 35.248
 RC 59.538 GL 6.55 GP 1.02 ZAL 60.02 ZAP 21.67 ETS 182.82 ZAE 144.60 ETE 193.59 ZAC 85.15 ETC 166.06 CLP 21.64

PLANETOCENTRIC CONIC

C3 131.847 VHL 11.482 DLA 16.64 RAL 22.94 RAD 6570.4 VEL 15.912 PTH 2.81 VHP 19.663 DPA -5.88 RAP 352.35 ECC 3.1699
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 47 47 3206.39 -26.00 111.19 284.39 78.38 5 41 14 2606.4 -27.35 102.78
 90.00 21 14 32 4759.68 17.05 204.27 271.32 67.05 22 33 52 4159.7 13.80 197.10
 100.00 6 18 35 2913.70 -27.85 90.08 284.81 78.68 7 7 7 2313.7 -29.13 81.51
 100.00 22 26 28 4527.60 18.78 186.42 270.53 66.31 23 41 55 3927.6 15.42 179.24
 110.00 7 47 36 2635.05 -32.70 70.01 285.89 79.43 8 31 31 2035.1 -33.81 60.95
 110.00 23 13 54 4379.01 23.27 172.94 268.32 64.22 24 26 53 3779.0 19.61 165.71

DIFFERENTIAL CORRECTIONS

TDE -.6910 TRA-1.7831 TC3 -.1439 BAU .2589
 RDE -.8516 RRA .3328 RC3 -.0296 FAU .01399
 FDE .4259 FRA .7922 FC3 -.0919 BSP 3008
 BOE 1.0967 BRA 1.8139 BC3 .1469 FSP -101

MID-COURSE EXECUTION ACCURACY

SGT 1044.2 SGR 463.9 SG3 44.0
 RRT .0165 RRF -.0190 RTF -.7264
 SGB 1142.6 R23 -.0041 R13 -.7264
 SG1 1044.3 SG2 463.8 THA .52

ORBIT DETERMINATION ACCURACY

ST 443.4 SR 428.1 SS 418.0
 CRT .6957 CRS .7963 CST .9873
 LSA 700.8 MSA 251.5 SSA 14.7
 EL1 567.6 EL2 240.2 ALF 43.56

LAUNCH DATE DEC 19 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 175.013

RL 147.19 LAL .00 LOL 87.16 VL 21.696 GAL 14.64 AZL 86.37 MCA 65.11 SMA 99.59 ECC .52701 INC 3.6284 V1 30.269
 RP 107.52 LAP 3.29 LOP 152.23 VP 33.703 GAP -31.51 AZP 88.47 TAL 165.98 TAP 231.09 RCA 47.10 APO 152.07 V2 35.243
 RC 57.501 GL 6.96 GP 1.06 ZAL 59.18 ZAP 20.22 ETS 183.24 ZAE 145.69 ETE 194.46 ZAC 86.98 ETC 166.17 CLP 20.20

PLANETOCENTRIC CONIC

C3 120.155 VHL 10.962 DLA 17.34 RAL 23.63 RAD 6570.3 VEL 15.540 PTH 2.77 VHP 18.862 DPA -5.12 RAP 353.98 ECC 2.9774
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 39 3214.62 -25.89 111.77 283.96 78.11 5 37 14 2614.6 -27.27 103.37
 90.00 21 24 12 4715.15 15.85 201.55 270.84 66.22 22 42 47 4115.2 12.50 194.47
 100.00 6 15 1 2919.97 -27.77 90.53 284.40 78.46 7 3 41 2320.0 -29.08 81.97
 100.00 22 35 30 4485.04 17.60 183.82 270.02 65.44 23 50 16 3885.0 14.14 176.73
 110.00 7 45 19 2637.44 -32.67 70.19 285.51 79.33 8 29 17 2037.4 -33.79 61.13
 110.00 23 21 42 4340.33 22.10 170.54 267.72 63.23 24 34 2 3740.3 18.33 163.44

DIFFERENTIAL CORRECTIONS

TDE -.6917 TRA-1.7836 TC3 -.1486 BAU .2443
 RDE -.8165 RRA .3113 RC3 -.0325 FAU .01432
 FDE .4426 FRA .8185 FC3 -.1031 BSP 3200
 BOE 1.0701 BRA 1.8106 BC3 .1521 FSP -112

MID-COURSE EXECUTION ACCURACY

SGT 1091.2 SGR 465.0 SG3 47.8
 RRT .0217 RRF -.0243 RTF -.7423
 SGB 1186.2 R23 -.0046 R13 -.7423
 SG1 1091.3 SG2 464.9 THA .65

ORBIT DETERMINATION ACCURACY

ST 465.5 SR 429.8 SS 436.2
 CRT .6965 CRS .7982 CST .9870
 LSA 725.5 MSA 255.3 SSA 14.9
 EL1 583.9 EL2 245.9 ALF 41.73

LAUNCH DATE DEC 19 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 181.401

RL 147.19 LAL .00 LOL 87.16 VL 22.155 GAL 13.98 AZL 86.41 MCA 68.35 SMA 101.12 ECC .50384 INC 3.5860 V1 30.269
 RP 107.54 LAP 3.33 LOP 155.48 VP 33.995 GAP -30.06 AZP 88.68 TAL 165.33 TAP 233.68 RCA 50.17 APO 152.06 V2 35.238
 RC 55.726 GL 7.38 GP 1.11 ZAL 58.40 ZAP 18.79 ETS 183.72 ZAE 146.91 ETE 195.43 ZAC 88.62 ETC 166.26 CLP 18.76

PLANETOCENTRIC CONIC

C3 109.542 VHL 10.466 DLA 18.03 RAL 24.27 RAD 6570.1 VEL 15.195 PTH 2.73 VHP 18.088 DPA -4.35 RAP 355.62 ECC 2.8028
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 12 3222.35 -25.78 112.31 283.42 77.86 5 32 54 2622.4 -27.20 103.92
 90.00 21 33 42 4669.87 14.59 198.83 270.31 65.46 22 51 32 4069.9 11.15 191.83
 100.00 6 11 13 2925.63 -27.69 90.93 283.87 78.26 6 59 59 2325.6 -29.03 82.38
 100.00 22 44 23 4441.82 16.36 181.21 269.45 64.63 23 58 25 3841.8 12.81 174.22
 110.00 7 42 48 2639.10 -32.65 70.31 285.01 79.26 8 26 47 2039.1 -33.78 61.26
 110.00 23 29 17 4301.12 20.88 168.16 267.07 62.30 24 40 58 3701.1 17.01 161.17

DIFFERENTIAL CORRECTIONS

TDE -.6954 TRA-1.7852 TC3 -.1534 BAU .2306
 RDE -.7818 RRA .2901 RC3 -.0355 FAU .01466
 FDE .4604 FRA .8460 FC3 -.1159 BSP 3339
 BOE 1.0464 BRA 1.8086 BC3 .1575 FSP -122

MID-COURSE EXECUTION ACCURACY

SGT 1142.1 SGR 465.4 SG3 51.8
 RRT .0285 RRF -.0305 RTF -.7572
 SGB 1233.3 R23 -.0046 R13 -.7573
 SG1 1142.2 SG2 465.2 THA .80

ORBIT DETERMINATION ACCURACY

ST 490.0 SR 430.9 SS 455.5
 CRT .6986 CRS .8006 CST .9870
 LSA 752.5 MSA 258.4 SSA 15.1
 EL1 602.4 EL2 250.8 ALF 39.77

LAUNCH DATE DEC 19 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 187.847

RL 147.19 LAL .00 LOL 87.16 VL 22.584 GAL 13.35 AZL 86.45 HCA 71.60 SMA 102.62 ECC .48154 INC 3.5453 V1 30.269
 RP 107.56 LAP 3.36 LOP 158.72 VP 34.270 GAP -28.66 AZP 88.88 TAL 164.70 TAP 236.30 RCA 53.20 APO 152.03 V2 35.232
 RC 54.021 GL 7.81 GP 1.16 ZAL 57.68 ZAP 17.37 ETS 184.27 ZAE 148.27 ETE 196.51 ZAC 90.37 ETC 166.33 CLP 17.33

PLANETOCENTRIC CONIC

C3 99.904 VHL 9.995 DLA 18.71 RAL 24.84 RAD 6569.9 VEL 14.874 PTH 2.68 VHP 17.340 DPA -3.57 RAP 357.27 ECC 2.6442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 25 3229.66 -25.67 112.82 282.76 77.63 5 28 15 2629.7 -27.12 104.45
 90.00 21 43 5 4623.82 13.27 196.09 269.73 64.75 23 0 9 4023.8 9.76 189.17
 100.00 6 7 7 2930.76 -27.62 91.30 283.23 78.08 6 55 57 2330.8 -28.98 82.76
 100.00 22 53 5 4397.95 15.06 178.60 268.84 63.87 24 6 23 3798.0 11.43 171.69
 110.00 7 40 1 2640.06 -32.64 70.38 284.39 79.21 8 24 1 2040.1 -33.78 61.33
 110.00 23 36 39 4261.41 19.60 165.78 266.38 61.42 24 47 41 3661.4 15.64 158.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6973 TRA-1.7832 TC3 -.1567 BAU .2155 SGT 1192.7 SGR 465.0 SG3 56.2 ST 514.5 SR 431.3 SS 475.3
 RDE -.7476 RRA .2694 RC3 -.0387 FAU .01507 RRT .0353 RRF -.0372 RTF -.7717 CRT 7.007 CRS .8032 CST .9868
 FDE .4791 FRA .8739 FC3 -.1306 BSP 3537 SGB 1280.1 R23 -.0051 R13 -.7717 LSA 780.0 MSA 260.9 SSA 15.2
 BOE 1.0223 BRA 1.8034 BC3 .1614 FSP -135 SG1 1192.8 SG2 464.6 THA .93 EL1 621.1 EL2 254.9 ALF 37.90

LAUNCH DATE DEC 19 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 194.345

RL 147.19 LAL .00 LOL 87.16 VL 22.985 GAL 12.73 AZL 86.49 HCA 74.84 SMA 104.09 ECC .46012 INC 3.5062 V1 30.269
 RP 107.58 LAP 3.38 LOP 161.97 VP 34.529 GAP -27.33 AZP 89.08 TAL 164.11 TAP 238.95 RCA 56.19 APO 151.98 V2 35.226
 RC 52.393 GL 8.26 GP 1.21 ZAL 57.03 ZAP 15.95 ETS 184.91 ZAE 149.78 ETE 197.72 ZAC 92.12 ETC 166.39 CLP 15.91

PLANETOCENTRIC CONIC

C3 91.151 VHL 9.547 DLA 19.37 RAL 25.36 RAD 6569.8 VEL 14.577 PTH 2.64 VHP 16.616 DPA -2.78 RAP 358.91 ECC 2.5001
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 29 17 3236.66 -25.57 113.30 281.99 77.40 5 23 14 2636.7 -27.05 104.95
 90.00 21 52 21 4577.00 11.89 193.34 269.10 64.11 23 8 38 3977.0 8.31 186.49
 100.00 6 2 42 2935.44 -27.55 91.63 282.47 77.92 6 51 37 2335.4 -28.94 83.10
 100.00 23 1 38 4353.45 13.71 175.98 268.18 63.17 24 14 11 3753.5 10.00 169.16
 110.00 7 37 0 2640.41 -32.63 70.41 283.66 79.20 8 21 0 2040.4 -33.78 61.36
 110.00 23 43 49 4221.25 18.28 163.42 265.64 60.60 24 54 10 3621.3 14.22 156.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6996 TRA-1.7796 TC3 -.1588 BAU .2002 SGT 1244.9 SGR 463.8 SG3 61.0 ST 540.1 SR 431.1 SS 496.0
 RDE -.7139 RRA .2491 RC3 -.0420 FAU .01552 RRT .0430 RRF -.0448 RTF -.7855 CRT 7.033 CRS .8060 CST .9867
 FDE .4988 FRA .9027 FC3 -.1474 BSP 3740 SGB 1328.5 R23 -.0056 R13 -.7855 LSA 808.9 MSA 262.6 SSA 15.3
 BOE .9995 BRA 1.7969 BC3 .1643 FSP -148 SG1 1245.1 SG2 463.3 THA 1.07 EL1 641.0 EL2 258.2 ALF 36.04

LAUNCH DATE DEC 19 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 200.891

RL 147.19 LAL .00 LOL 87.16 VL 23.359 GAL 12.14 AZL 86.53 HCA 78.08 SMA 105.52 ECC .43958 INC 3.4683 V1 30.269
 RP 107.60 LAP 3.39 LOP 165.22 VP 34.772 GAP -26.05 AZP 89.28 TAL 163.56 TAP 241.64 RCA 59.14 APO 151.91 V2 35.219
 RC 50.852 GL 8.71 GP 1.27 ZAL 56.43 ZAP 14.55 ETS 185.68 ZAE 151.42 ETE 199.10 ZAC 93.87 ETC 166.43 CLP 14.49

PLANETOCENTRIC CONIC

C3 83.200 VHL 9.121 DLA 20.03 RAL 25.82 RAD 6565.6 VEL 14.302 PTH 2.60 VHP 15.916 DPA -1.98 RAP .55 ECC 2.3693
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 23 47 3243.45 -25.47 113.77 281.11 77.19 5 17 50 2643.4 -26.98 105.43
 90.00 22 1 31 4529.43 10.46 190.57 268.44 63.54 23 17 0 3929.4 6.82 183.78
 100.00 5 57 57 2939.76 -27.49 91.93 281.61 77.77 6 46 57 2339.8 -28.90 83.41
 100.00 23 10 1 4308.35 12.31 173.37 267.48 62.54 24 21 49 3708.3 8.53 166.61
 110.00 7 33 42 2640.19 -32.63 70.39 282.82 79.21 8 17 43 2040.2 -33.78 61.34
 110.00 23 50 45 4180.68 16.91 161.08 264.87 59.84 25 0 26 3580.7 12.77 154.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7023 TRA-1.7743 TC3 -.1597 BAU .1846 SGT 1298.7 SGR 461.9 SG3 66.2 ST 566.9 SR 430.2 SS 517.7
 RDE -.6809 RRA .2293 RC3 -.0455 FAU .01602 RRT .0517 RRF -.0533 RTF -.7986 CRT 7.067 CRS .8093 CST .9867
 FDE .5199 FRA .9326 FC3 -.1667 BSP 3948 SGB 1378.4 R23 -.0061 R13 -.7986 LSA 839.4 MSA 263.7 SSA 15.5
 BOE .9782 BRA 1.7891 BC3 .1660 FSP -163 SG1 1299.0 SG2 461.2 THA 1.20 EL1 662.2 EL2 260.5 ALF 34.21

LAUNCH DATE DEC 19 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 207.480

RL 147.19 LAL .00 LOL 87.16 VL 23.709 GAL 11.57 AZL 86.57 HCA 81.32 SMA 106.92 ECC .41993 INC 3.4313 V1 30.269
 RP 107.62 LAP 3.39 LOP 168.47 VP 35.000 GAP -24.83 AZP 89.48 TAL 163.04 TAP 244.36 RCA 62.02 APO 151.82 V2 35.211
 RC 49.405 GL 9.18 GP 1.33 ZAL 55.90 ZAP 13.14 ETS 186.61 ZAE 153.22 ETE 200.70 ZAC 95.62 ETC 166.45 CLP 13.08

PLANETOCENTRIC CONIC

C3 75.980 VHL 8.717 DLA 20.67 RAL 26.22 RAD 6569.5 VEL 14.047 PTH 2.56 VHP 15.239 DPA -1.17 RAP 2.19 ECC 2.2504
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 17 53 3250.15 -25.37 114.24 280.12 76.98 5 12 3 2650.1 -26.91 105.91
 90.00 22 10 35 4481.10 8.98 187.79 287.73 63.03 23 25 16 3881.1 5.30 181.06
 100.00 5 52 53 2943.81 -27.43 92.22 280.64 77.63 6 41 57 2343.8 -28.86 83.71
 100.00 23 18 16 4262.68 10.86 170.75 266.74 61.98 24 29 18 3662.7 7.03 164.06
 110.00 7 30 9 2639.49 -32.64 70.34 281.87 79.24 8 14 9 2039.5 -33.78 61.29
 110.00 0 1 25 4139.76 15.49 158.75 264.05 59.14 1 10 25 3539.8 11.29 152.17

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7056 TRA-1.7675 TC3 -.1590 BAU .1690 SGT 1354.2 SGR 459.2 SG3 72.0 ST 595.0 SR 428.6 SS 540.6
 RDE -.6486 RRA .2100 RC3 -.0490 FAU .01657 RRT .0614 RRF -.0630 RTF -.8110 CRT 7.108 CRS .8129 CST .9867
 FDE .5426 FRA .9636 FC3 -.1888 BSP 4160 SGB 1430.0 R23 -.0068 R13 -.8111 LSA 871.8 MSA 263.9 SSA 15.6
 BOE .9584 BRA 1.7800 BC3 .1663 FSP -180 SG1 1354.6 SG2 458.2 THA 1.35 EL1 684.9 EL2 261.9 ALF 32.42

LAUNCH DATE DEC 19 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 214.105

RL 147.19 LAL .00 LOL 87.16 VL 24.036 GAL 11.02 AZL 86.61 HCA 84.56 SMA 108.28 ECC .40116 INC 3.3949 V1 30.269
 RP 107.65 LAP 3.38 LOP 171.71 VP 35.214 GAP -23.65 AZP 89.68 TAL 162.56 TAP 247.12 RCA 64.84 APO 151.72 V2 35.202
 RC 48.064 GL 9.65 GP 1.41 ZAL 55.44 ZAP 11.74 ETS 187.77 ZAE 155.15 ETE 202.57 ZAC 97.37 ETC 166.45 CLP 11.66

PLANETOCENTRIC CONIC

C3 69.424 VHL 8.332 DLA 21.31 RAL 26.55 RAD 6569.3 VEL 13.812 PTH 2.52 VHP 14.585 OPA -.35 RAP 3.82 ECC 2.1425
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 35 3256.88 -25.26 114.70 279.03 76.77 5 5 52 2656.9 -26.84 106.39
 90.00 22 19 35 4432.06 7.46 185.00 266.98 62.60 23 33 27 3832.1 3.73 178.30
 100.00 5 47 28 2947.68 -27.37 92.49 279.57 77.50 6 36 36 2347.7 -28.82 83.99
 100.00 23 26 22 4216.49 9.37 168.13 265.96 61.48 24 36 39 3616.5 5.49 161.49
 110.00 7 26 20 2638.36 -32.66 70.25 280.83 79.29 8 10 19 2038.4 -33.79 61.20
 110.00 0 7 55 4098.57 14.04 156.44 263.21 58.51 1 16 14 3498.6 9.77 149.94

DIFFERENTIAL CORRECTIONS

TOE -.7091 TRA-1.7586 TC3 -.1563 BAU .1530
 ROE -.6171 RRA .1912 RC3 -.0525 FAU .01719
 FOE .5669 FRA .9959 FC3 -.2144 BSP 4382
 BOE .9400 BRA 1.7690 BC3 .1649 FSP -198

MID-COURSE EXECUTION ACCURACY

SGT 1410.9 SGR 455.7 SG3 78.2
 RRT .0723 RRF -.0738 RTF -.8228
 SGB 1482.6 R23 -.0075 R13 -.8229
 SGI 1411.3 SG2 454.3 THA 1.49

ORBIT DETERMINATION ACCURACY

ST 624.1 SR 426.5 SS 564.6
 CRT .7156 CRS .8168 CST .9867
 LSA 905.8 MSA 263.4 SSA 15.7
 EL1 708.9 EL2 262.2 ALF 30.70

LAUNCH DATE DEC 19 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 220.763

RL 147.19 LAL .00 LOL 87.16 VL 24.341 GAL 10.50 AZL 86.64 HCA 87.79 SMA 109.60 ECC .38326 INC 3.3590 V1 30.269
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.414 GAP -22.51 AZP 89.87 TAL 162.12 TAP 249.91 RCA 67.59 APO 151.61 V2 35.194
 RC 46.839 GL 10.14 GP 1.49 ZAL 55.04 ZAP 10.35 ETS 189.25 ZAE 157.22 ETE 204.82 ZAC 99.11 ETC 166.43 CLP 10.24

PLANETOCENTRIC CONIC

C3 63.471 VHL 7.967 DLA 21.93 RAL 26.83 RAD 6569.2 VEL 13.595 PTH 2.48 VHP 13.952 OPA .47 RAP 5.44 ECC 2.0446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 51 3263.78 -25.16 115.18 277.85 76.55 4 59 15 2663.8 -26.76 106.88
 90.00 22 28 31 4382.30 5.89 182.18 266.20 62.25 23 41 33 3782.3 2.13 175.52
 100.00 5 41 43 2951.46 -27.32 92.76 278.41 77.37 6 30 54 2351.5 -28.78 84.27
 100.00 23 34 21 4169.85 7.84 165.51 265.14 61.06 24 43 51 3569.8 3.92 158.91
 110.00 7 22 16 2636.89 -32.68 70.14 279.68 79.35 8 6 12 2036.9 -33.80 61.09
 110.00 0 14 13 4057.19 12.56 154.15 262.32 57.94 1 21 50 3457.2 8.23 147.72

DIFFERENTIAL CORRECTIONS

TOE -.7134 TRA-1.7485 TC3 -.1518 BAU .1373
 ROE -.5864 RRA .1730 RC3 -.0559 FAU .01788
 FOE .5933 FRA 1.0297 FC3 -.2438 BSP 4598
 BOE .9235 BRA 1.7570 BC3 .1618 FSP -218

MID-COURSE EXECUTION ACCURACY

SGT 1469.4 SGR 451.4 SG3 85.1
 RRT .0846 RRF -.0861 RTF -.8340
 SGB 1537.2 R23 -.0083 R13 -.8341
 SGI 1470.0 SG2 449.6 THA 1.64

ORBIT DETERMINATION ACCURACY

ST 654.7 SR 423.7 SS 590.0
 CRT .7212 CRS .8212 CST .9868
 LSA 942.0 MSA 262.1 SSA 15.8
 EL1 734.7 EL2 261.6 ALF 29.04

LAUNCH DATE DEC 19 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 227.449

RL 147.19 LAL .00 LOL 87.16 VL 24.625 GAL 9.99 AZL 86.68 HCA 91.03 SMA 110.88 ECC .36623 INC 3.3232 V1 30.269
 RP 107.71 LAP 3.32 LOP 178.19 VP 35.601 GAP -21.42 AZP 90.06 TAL 161.71 TAP 252.74 RCA 70.27 APO 151.48 V2 35.184
 RC 45.742 GL 10.63 GP 1.57 ZAL 54.70 ZAP 8.96 ETS 191.22 ZAE 159.41 ETE 207.57 ZAC 100.84 ETC 166.39 CLP 8.82

PLANETOCENTRIC CONIC

C3 58.070 VHL 7.620 DLA 22.53 RAL 27.05 RAD 6569.1 VEL 13.395 PTH 2.45 VHP 13.340 OPA 1.30 RAP 7.06 ECC 1.9557
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 40 3270.99 -25.04 115.68 276.58 76.33 4 52 11 2671.0 -26.68 107.39
 90.00 22 37 25 4331.87 4.28 179.35 265.39 61.98 23 49 37 3731.9 .50 172.71
 100.00 5 35 35 2955.27 -27.26 93.03 277.16 77.24 6 24 51 2355.3 -28.75 84.54
 100.00 23 42 11 4122.82 6.29 162.89 264.29 60.72 24 50 54 3522.8 2.34 156.33
 110.00 7 17 55 2635.12 -32.70 70.01 278.46 79.43 8 1 50 2035.1 -33.81 60.95
 110.00 0 20 17 4015.73 11.05 151.89 261.41 57.44 1 27 13 3415.7 6.68 145.52

DIFFERENTIAL CORRECTIONS

TOE -.7207 TRA-1.7388 TC3 -.1465 BAU .1227
 ROE -.5567 RRA .1553 RC3 -.0593 FAU .01862
 FOE .6223 FRA 1.0657 FC3 -.2775 BSP 4762
 BOE .9107 BRA 1.7457 BC3 .1580 FSP -239

MID-COURSE EXECUTION ACCURACY

SGT 1531.9 SGR 446.5 SG3 92.7
 RRT .0996 RRF -.1002 RTF -.8441
 SGB 1595.7 R23 -.0085 R13 -.8442
 SGI 1532.6 SG2 444.1 THA 1.81

ORBIT DETERMINATION ACCURACY

ST 688.4 SR 420.3 SS 617.3
 CRT .7283 CRS .8261 CST .9871
 LSA 981.8 MSA 259.8 SSA 15.9
 EL1 763.7 EL2 259.7 ALF 27.40

LAUNCH DATE DEC 19 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 234.158

RL 147.19 LAL .00 LOL 87.16 VL 24.890 GAL 9.51 AZL 86.71 HCA 94.26 SMA 112.11 ECC .35005 INC 3.2874 V1 30.269
 RP 107.74 LAP 3.28 LOP 181.43 VP 35.775 GAP -20.37 AZP 90.24 TAL 161.35 TAP 255.61 RCA 72.86 APO 151.35 V2 35.174
 RC 44.782 GL 11.13 GP 1.67 ZAL 54.42 ZAP 7.57 ETS 193.95 ZAE 161.69 ETE 211.04 ZAC 102.55 ETC 166.32 CLP 7.39

PLANETOCENTRIC CONIC

C3 53.168 VHL 7.292 DLA 23.12 RAL 27.20 RAD 6568.9 VEL 13.211 PTH 2.41 VHP 12.749 OPA 2.14 RAP 8.66 ECC 1.8750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 2 3278.64 -24.92 116.20 275.22 76.09 4 44 40 2678.6 -26.59 107.93
 90.00 22 46 18 4280.79 2.64 176.49 264.54 61.80 23 57 39 3680.8 -1.15 169.86
 100.00 5 29 6 2959.17 -27.20 93.31 275.83 77.10 6 18 26 2359.2 -28.71 84.83
 100.00 23 49 55 4075.49 4.70 160.26 263.41 60.45 24 57 50 3475.5 .73 153.73
 110.00 7 13 20 2633.13 -32.72 69.86 277.15 79.51 7 57 13 2033.1 -33.82 60.80
 110.00 0 26 7 3974.30 9.52 149.65 260.46 57.01 1 32 21 3374.3 5.11 143.34

DIFFERENTIAL CORRECTIONS

TOE -.7263 TRA-1.7251 TC3 -.1370 BAU .1070
 ROE -.5280 RRA .1381 RC3 -.0624 FAU .01946
 FOE .6535 FRA 1.1033 FC3 -.3169 BSP 4979
 BOE .8979 BRA 1.7307 BC3 .1506 FSP -263

MID-COURSE EXECUTION ACCURACY

SGT 1593.2 SGR 440.9 SG3 101.0
 RRT .1154 RRF -.1160 RTF -.8541
 SGB 1653.1 R23 -.0094 R13 -.8542
 SGI 1594.1 SG2 437.7 THA 1.98

ORBIT DETERMINATION ACCURACY

ST 722.0 SR 416.4 SS 645.9
 CRT .7356 CRS .8314 CST .9874
 LSA 1022.6 MSA 256.9 SSA 16.0
 EL1 792.9 EL2 256.9 ALF 25.91

LAUNCH DATE DEC 19 1968

FLIGHT TIME 102.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 240.885
 RL 147.19 LAL .00 LOL 87.16 VL 25.137 GAL 9.04 AZL 86.75 MCA 97.49 SMA 113.29 ECC .33471 INC 3.2513 V1 30.269
 RP 107.77 LAP 3.22 LOP 184.67 VP 35.937 GAP -19.36 AZP 90.42 TAL 161.03 TAP 258.53 RCA 75.37 APO 151.21 V2 35.164
 RC 43.971 GL 11.64 GP 1.78 ZAL 54.21 ZAP 6.21 ETS 197.97 ZAE 164.03 ETE 215.54 ZAC 104.25 ETC 166.23 CLP 5.95

PLANETOCENTRIC CONIC

C3 48.722 VML 6.980 DLA 23.70 RAL 27.30 RAD 6568.8 VEL 13.042 PTH 2.38 VHP 12.177 DPA 2.97 RAP 10.24 ECC 1.8018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 41 54 3286.88 -24.78 116.77 273.78 75.84 4 36 41 2686.9 -26.49 108.51
 90.00 22 55 12 4229.10 .98 173.60 263.67 61.70 24 5 41 3629.1 -2.81 166.97
 100.00 5 22 16 2963.26 -27.14 93.59 274.42 76.97 6 11 40 2363.3 -28.66 85.12
 100.00 0 1 26 4027.96 3.10 157.64 262.49 60.25 1 8 34 3428.0 -.88 151.12
 110.00 7 8 30 2630.94 -32.75 69.70 275.76 79.61 7 52 20 2030.9 -33.84 60.63
 110.00 0 31 43 3933.03 7.98 147.44 259.48 56.65 1 37 16 3333.0 3.54 141.17

DIFFERENTIAL CORRECTIONS

TOE -.7319 TRA-1.7093 TC3 -.1243 BAU .0914 SGT 1655.0 SGR 434.5 SG3 110.1 ST 756.5 SR 412.0 SS 676.2
 RDE -.5003 RRA .1215 RC3 -.0653 FAU .02040 RRT .1330 RRF -.1336 RTF -.8635 CRT .7435 CRS .8370 CST .9877
 FDE .6873 FRA 1.1430 FC3 -.3625 BSP 5208 SGB 1711.1 R23 -.0105 R13 -.8636 LSA 1065.3 MSA 253.3 SSA 16.1
 BDE .8865 BRA 1.7136 BC3 .1404 FSP -290 SG1 1656.1 SG2 430.4 TMA 2.15 EL1 823.3 EL2 253.1 ALF 24.51

LAUNCH DATE DEC 19 1968

FLIGHT TIME 104.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 247.628
 RL 147.19 LAL .00 LOL 87.16 VL 25.367 GAL 8.60 AZL 86.79 MCA 100.72 SMA 114.42 ECC .32019 INC 3.2147 V1 30.269
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.087 GAP -18.39 AZP 90.60 TAL 160.76 TAP 261.48 RCA 77.79 APO 151.06 V2 35.153
 RC 43.319 GL 12.15 GP 1.90 ZAL 54.06 ZAP 4.87 ETS 204.35 ZAE 166.35 ETE 221.62 ZAC 105.93 ETC 166.11 CLP 4.49

PLANETOCENTRIC CONIC

C3 44.692 VML 6.685 DLA 24.26 RAL 27.33 RAD 6568.7 VEL 12.886 PTH 2.35 VHP 11.624 DPA 3.82 RAP 11.81 ECC 1.7355
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 33 16 3295.87 -24.63 117.38 272.27 75.57 4 28 12 2695.9 -26.37 109.15
 90.00 23 4 7 4176.81 -.71 170.69 262.77 61.69 24 13 44 3576.8 -4.49 164.05
 100.00 5 15 5 2967.58 -27.07 93.90 272.94 76.82 6 4 33 2367.6 -28.62 85.43
 100.00 0 8 54 3980.33 1.49 155.03 261.55 60.14 1 15 15 3380.3 -2.49 148.51
 110.00 7 3 26 2628.61 -32.78 69.52 274.31 79.71 7 47 15 2028.6 -33.85 60.45
 110.00 0 37 3 3892.07 6.44 145.27 258.48 56.36 1 41 55 3292.1 1.98 139.03

DIFFERENTIAL CORRECTIONS

TOE -.7379 TRA-1.6918 TC3 -.1080 BAU .0761 SGT 1717.6 SGR 427.6 SG3 120.2 ST 792.2 SR 407.1 SS 708.3
 RDE -.4737 RRA .1053 RC3 -.0677 FAU .02145 RRT .1529 RRF -.1536 RTF -.8723 CRT .7522 CRS .8431 CST .9880
 FDE .7243 FRA 1.1833 FC3 -.4155 BSP 5441 SGB 1770.0 R23 -.0117 R13 -.8725 LSA 1110.3 MSA 248.9 SSA 16.1
 BDE .8768 BRA 1.6951 BC3 .1274 FSP -320 SG1 1718.9 SG2 422.3 TMA 2.32 EL1 855.3 EL2 248.5 ALF 23.21

LAUNCH DATE DEC 19 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 254.382
 RL 147.19 LAL .00 LOL 87.16 VL 25.581 GAL 8.17 AZL 86.82 MCA 103.95 SMA 115.51 ECC .30646 INC 3.1773 V1 30.269
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.227 GAP -17.45 AZP 90.77 TAL 160.53 TAP 264.48 RCA 80.11 APO 150.91 V2 35.141
 RC 42.834 GL 12.65 GP 2.03 ZAL 53.97 ZAP 3.63 ETS 215.54 ZAE 168.57 ETE 230.11 ZAC 107.58 ETC 165.96 CLP 3.01

PLANETOCENTRIC CONIC

C3 41.039 VML 6.406 DLA 24.80 RAL 27.31 RAD 6568.6 VEL 12.744 PTH 2.32 VHP 11.090 DPA 4.66 RAP 13.35 ECC 1.6754
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 24 7 3305.75 -24.46 118.06 270.69 75.27 4 19 13 2705.7 -26.25 109.84
 90.00 23 13 5 4123.96 -2.41 167.74 261.85 61.78 24 21 49 3524.0 -6.17 161.07
 100.00 5 7 35 2972.19 -27.00 94.22 271.40 76.66 5 57 7 2372.2 -28.57 85.77
 100.00 0 16 14 3932.75 -.12 152.42 260.58 60.11 1 21 47 3332.8 -4.10 145.89
 110.00 6 58 11 2626.12 -32.81 69.33 272.79 79.81 7 41 57 2026.1 -33.86 60.25
 110.00 0 42 7 3851.59 4.91 143.14 257.44 56.13 1 46 19 3251.6 .43 136.92

DIFFERENTIAL CORRECTIONS

TOE -.7446 TRA-1.6728 TC3 -.0884 BAU .0617 SGT 1781.2 SGR 420.2 SG3 131.3 ST 829.5 SR 401.9 SS 742.6
 RDE -.4483 RRA .0897 RC3 -.0696 FAU .02260 RRT .1757 RRF -.1764 RTF -.8806 CRT .7619 CRS .8497 CST .9884
 FDE .7649 FRA 1.2305 FC3 -.4769 BSP 5667 SGB 1830.1 R23 -.0131 R13 -.8808 LSA 1158.1 MSA 243.9 SSA 16.2
 BDE .8692 BRA 1.6752 BC3 .1125 FSP -353 SG1 1782.8 SG2 413.3 TMA 2.51 EL1 889.1 EL2 242.8 ALF 21.98

LAUNCH DATE DEC 19 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 261.143
 RL 147.19 LAL .00 LOL 87.16 VL 25.780 GAL 7.77 AZL 86.86 MCA 107.17 SMA 116.54 ECC .29351 INC 3.1388 V1 30.269
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.356 GAP -16.54 AZP 90.93 TAL 160.34 TAP 267.52 RCA 82.34 APO 150.75 V2 35.129
 RC 42.524 GL 13.16 GP 2.18 ZAL 53.93 ZAP 2.66 ETS 236.88 ZAE 170.51 ETE 242.30 ZAC 109.20 ETC 165.78 CLP 1.52

PLANETOCENTRIC CONIC

C3 37.729 VML 6.142 DLA 25.31 RAL 27.23 RAD 6568.5 VEL 12.613 PTH 2.29 VHP 10.575 DPA 5.51 RAP 14.87 ECC 1.6209
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 14 26 3316.66 -24.27 118.80 269.05 74.95 4 9 43 2716.7 -26.10 110.61
 90.00 23 22 8 4070.57 -4.13 164.75 260.91 61.96 24 29 58 3470.6 -7.85 158.05
 100.00 4 59 45 2977.09 -26.92 94.56 269.80 76.50 5 49 23 2377.1 -28.51 86.12
 100.00 0 23 25 3885.38 -1.73 149.82 259.58 60.15 1 28 11 3285.4 -5.69 143.27
 110.00 6 52 47 2623.48 -32.84 69.13 271.23 79.93 7 36 30 2023.5 -33.88 60.05
 110.00 0 46 53 3811.75 3.40 141.05 256.38 55.97 1 50 25 3211.8 -1.09 134.84

DIFFERENTIAL CORRECTIONS

TOE -.7494 TRA-1.6496 TC3 -.0621 BAU .0474 SGT 1841.7 SGR 412.2 SG3 143.6 ST 865.7 SR 396.3 SS 778.6
 RDE -.4241 RRA .0746 RC3 -.0706 FAU .02393 RRT .2005 RRF -.2020 RTF -.8887 CRT .7718 CRS .8566 CST .9887
 FDE .8088 FRA 1.2784 FC3 -.5491 BSP 5954 SGB 1887.3 R23 -.0152 R13 -.8889 LSA 1206.5 MSA 238.4 SSA 16.2
 BDE .8611 BRA 1.6513 BC3 .0940 FSP -391 SG1 1843.6 SG2 403.5 TMA 2.70 EL1 922.2 EL2 236.6 ALF 20.90

LAUNCH DATE DEC 19 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 267.909

RL 147.19 LAL .00 LOL 87.16 VL 25.965 GAL 7.38 AZL 86.90 HCA 110.40 SMA 117.53 ECC .28131 INC 3.0991 V1 30.269
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.476 GAP -15.67 AZP 91.08 TAL 160.20 TAP 270.60 RCA 84.47 APO 150.59 V2 35.117
 RC 42.392 GL 13.66 GP 2.35 ZAL 53.96 ZAP 2.35 ETS 271.96 ZAE 171.90 ETE 259.45 ZAC 110.79 ETC 165.57 CLP -.01

PLANETOCENTRIC CONIC

C3 34.733 VHL 5.893 DLA 25.80 RAL 27.10 RAD 6568.4 VEL 12.494 PTH 2.26 VHP 10.077 DPA 6.36 RAP 16.35 ECC 1.5716
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 4 12 3328.76 -24.05 119.62 267.36 74.59 3 59 41 2728.8 -25.94 111.46
 90.00 23 31 17 4016.66 -5.85 161.72 259.95 62.24 24 38 14 3416.7 -9.52 154.96
 100.00 4 51 41 2982.25 -26.84 94.93 268.16 76.32 5 41 23 2382.3 -28.46 86.50
 100.00 0 30 26 3838.40 -3.32 147.24 258.56 60.28 1 34 24 3238.4 -7.25 140.66
 110.00 6 47 15 2620.64 -32.87 68.92 269.62 80.05 7 30 56 2020.6 -33.90 59.83
 110.00 0 51 20 3772.78 1.91 139.01 255.30 55.86 1 54 13 3172.8 -2.58 132.81

DIFFERENTIAL CORRECTIONS

TDE -.7535 TRA-1.6265 TC3 -.0312 BAU .0359
 RDE -.4012 RRA .0598 RC3 -.0707 FAU .02538
 FDE .8577 FRA 1.3306 FC3 -.6325 BSP 6174
 BDE .8536 BRA 1.6276 BC3 .0773 FSP -432

MID-COURSE EXECUTION ACCURACY

SGT 1903.3 SGR 404.0 SG3 157.3
 RRT .2281 RRF -.2316 RTF -.8965
 SGB 1945.8 R23 -.0184 R13 -.8967
 SG1 1905.7 SG2 392.9 THA 2.90

ORBIT DETERMINATION ACCURACY

ST 902.3 SR 390.5 SS 817.5
 CRT .7818 CRS .8641 CST .9890
 LSA 1257.2 MSA 232.7 SSA 16.1
 EL1 956.0 EL2 229.8 ALF 19.89

LAUNCH DATE DEC 19 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 274.676

RL 147.19 LAL .00 LOL 87.16 VL 26.136 GAL 7.02 AZL 86.94 HCA 113.62 SMA 118.47 ECC .26985 INC 3.0576 V1 30.269
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.586 GAP -14.82 AZP 91.23 TAL 160.10 TAP 273.72 RCA 86.50 APO 150.43 V2 35.105
 RC 42.442 GL 14.15 GP 2.55 ZAL 54.03 ZAP 2.99 ETS 303.40 ZAE 172.42 ETE 280.79 ZAC 112.33 ETC 165.33 CLP -1.56

PLANETOCENTRIC CONIC

C3 32.020 VHL 5.659 DLA 26.27 RAL 26.91 RAD 6568.3 VEL 12.385 PTH 2.24 VHP 9.596 DPA 7.22 RAP 17.80 ECC 1.5270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 53 25 3342.17 -23.81 120.53 265.62 74.20 3 49 7 2742.2 -25.75 112.39
 90.00 23 40 36 3962.25 -7.56 158.64 258.97 62.63 24 46 38 3362.2 -11.17 151.82
 100.00 4 43 25 2987.57 -26.76 95.30 266.48 76.15 5 33 12 2387.6 -28.40 86.88
 100.00 0 37 13 3792.08 -4.88 144.68 257.51 60.47 1 40 25 3192.1 -8.78 138.06
 110.00 6 41 41 2617.51 -32.91 68.68 267.97 80.19 7 25 18 2017.5 -33.91 59.59
 110.00 0 55 26 3734.90 .46 137.03 254.19 55.82 1 57 41 3134.9 -4.02 130.82

DIFFERENTIAL CORRECTIONS

TDE -.7630 TRA-1.6030 TC3 .0007 BAU .0298
 RDE -.3797 RRA .0452 RC3 -.0697 FAU .02700
 FDE .9115 FRA 1.3873 FC3 -.7299 BSP 6400
 BDE .8522 BRA 1.6036 BC3 .0697 FSP -478

MID-COURSE EXECUTION ACCURACY

SGT 1967.9 SGR 395.8 SG3 172.5
 RRT .2626 RRF -.2653 RTF -.9030
 SGB 2007.3 R23 -.0196 R13 -.9033
 SG1 1970.7 SG2 381.3 THA 3.14

ORBIT DETERMINATION ACCURACY

ST 944.2 SR 384.8 SS 858.9
 CRT .7946 CRS .8720 CST .9897
 LSA 1313.9 MSA 225.6 SSA 16.2
 EL1 995.3 EL2 221.7 ALF 18.91

LAUNCH DATE DEC 19 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 281.441

RL 147.19 LAL .00 LOL 87.16 VL 26.295 GAL 6.67 AZL 86.99 HCA 116.84 SMA 119.35 ECC .25910 INC 3.0141 V1 30.269
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.688 GAP -14.01 AZP 91.36 TAL 160.04 TAP 276.88 RCA 88.43 APO 150.28 V2 35.092
 RC 42.671 GL 14.63 GP 2.77 ZAL 54.16 ZAP 4.20 ETS 320.72 ZAE 171.93 ETE 301.82 ZAC 113.82 ETC 165.05 CLP -3.16

PLANETOCENTRIC CONIC

C3 29.566 VHL 5.437 DLA 26.69 RAL 26.68 RAD 6568.2 VEL 12.286 PTH 2.21 VHP 9.132 DPA 8.08 RAP 19.21 ECC 1.4866
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 42 4 3357.03 -23.53 121.53 263.84 73.77 3 38 2 2757.0 -25.53 113.43
 90.00 23 50 4 3907.33 -9.27 155.51 257.99 63.12 24 55 12 3307.3 -12.80 148.61
 100.00 4 35 2 2992.88 -26.67 95.67 264.78 75.97 5 24 55 2392.9 -28.33 87.26
 100.00 0 43 44 3746.72 -6.40 142.17 256.44 60.74 1 46 10 3146.7 -10.25 135.50
 110.00 6 36 7 2613.98 -32.95 68.41 266.29 80.34 7 19 41 2014.0 -33.93 59.31
 110.00 0 59 8 3698.38 -.93 135.13 253.06 55.83 2 0 46 3098.4 -5.41 128.91

DIFFERENTIAL CORRECTIONS

TDE -.7703 TRA-1.5776 TC3 .0387 BAU .0306
 RDE -.3596 RRA .0309 RC3 -.0671 FAU .02879
 FDE .9710 FRA 1.4491 FC3 -.8431 BSP 6617
 BDE .8501 BRA 1.5779 BC3 .0775 FSP -529

MID-COURSE EXECUTION ACCURACY

SGT 2030.5 SGR 387.6 SG3 189.5
 RRT .3006 RRF -.3040 RTF -.9094
 SGB 2067.2 R23 -.0223 R13 -.9097
 SG1 2034.0 SG2 369.1 THA 3.40

ORBIT DETERMINATION ACCURACY

ST 985.1 SR 379.1 SS 903.3
 CRT .8072 CRS .8803 CST .9903
 LSA 1371.9 MSA 218.5 SSA 16.2
 EL1 1033.8 EL2 213.2 ALF 18.05

LAUNCH DATE DEC 19 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 288.202

RL 147.19 LAL .00 LOL 87.16 VL 26.442 GAL 6.34 AZL 87.03 HCA 120.05 SMA 120.19 ECC .24903 INC 2.9681 V1 30.269
 RP 108.03 LAP 2.57 LOP 207.25 VP 36.781 GAP -13.22 AZP 91.49 TAL 160.03 TAP 280.08 RCA 90.26 APO 150.12 V2 35.080
 RC 43.078 GL 15.08 GP 3.02 ZAL 54.33 ZAP 5.66 ETS 329.86 ZAE 170.65 ETE 318.43 ZAC 115.26 ETC 164.72 CLP -4.79

PLANETOCENTRIC CONIC

C3 27.345 VHL 5.229 DLA 27.08 RAL 26.40 RAD 6568.1 VEL 12.195 PTH 2.19 VHP 8.685 DPA 8.95 RAP 20.57 ECC 1.4500
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 11 3373.43 -23.21 122.62 262.02 73.31 3 26 24 2773.4 -25.28 114.56
 90.00 0 3 41 3851.94 -10.95 152.31 256.99 63.72 1 7 53 3251.9 -14.40 145.33
 100.00 4 26 41 2997.87 -26.59 96.02 263.05 75.81 5 16 39 2397.9 -28.27 87.62
 100.00 0 49 52 3702.74 -7.85 139.72 255.34 61.06 1 51 35 3102.7 -11.65 132.99
 110.00 6 30 41 2609.85 -33.00 68.10 264.60 80.52 7 14 11 2009.9 -33.95 58.99
 110.00 1 2 22 3663.51 -2.27 133.31 251.91 55.88 2 3 25 3063.5 -6.73 127.07

DIFFERENTIAL CORRECTIONS

TDE -.7767 TRA-1.5507 TC3 .0823 BAU .0378
 RDE -.3410 RRA .0167 RC3 -.0628 FAU .03080
 FDE 1.0363 FRA 1.5166 FC3 -.9753 BSP 6829
 BDE .8483 BRA 1.5508 BC3 .1035 FSP -586

MID-COURSE EXECUTION ACCURACY

SGT 2091.3 SGR 379.9 SG3 208.3
 RRT .3436 RRF -.3480 RTF -.9154
 SGB 2125.5 R23 -.0257 R13 -.9154
 SG1 2095.5 SG2 356.1 THA 3.68

ORBIT DETERMINATION ACCURACY

ST 1025.7 SR 373.7 SS 950.3
 CRT .8203 CRS .8890 CST .9908
 LSA 1431.7 MSA 211.1 SSA 16.1
 EL1 1072.3 EL2 204.4 ALF 17.29

LAUNCH DATE DEC 19 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 26.577 GAL 6.02 AZL 87.08 MCA 123.27 SMA 120.98 ECC .23963 INC 2.9190 V1 30.269
 RP 108.07 LAP 2.44 LOP 210.46 VP 36.866 GAP -12.46 AZP 91.60 TAL 160.05 TAP 283.32 RCA 91.99 APO 149.97 V2 35.067
 RC 43.658 GL 15.51 GP 3.30 ZAL 54.54 ZAP 7.26 ETS 335.14 ZAE 168.96 ETE 330.29 ZAC 116.63 ETC 164.35 CLP -6.47

PLANETOCENTRIC CONIC
 C3 25.335 VHL 5.033 DLA 27.43 RAL 26.09 RAD 6568.0 VEL 12.112 PTH 2.17 VHP 8.255 DPA 9.83 RAP 21.87 ECC 1.4170
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 17 45 3391.45 -22.85 123.82 260.18 72.81 3 14 17 2791.4 -24.99 115.81
 90.00 0 13 36 3796.10 -12.62 149.05 255.98 64.44 1 16 52 3196.1 -15.96 141.97
 100.00 4 18 32 3002.09 -26.51 96.31 261.32 75.67 5 8 34 2402.1 -28.22 87.92
 100.00 0 55 31 3660.70 -9.23 137.35 254.22 61.44 1 56 31 3060.7 -12.97 130.57
 110.00 6 25 27 2604.90 -33.05 67.72 262.89 80.74 7 8 52 2004.9 -33.98 58.61
 110.00 1 5 5 3630.64 -3.52 131.59 250.73 55.98 2 5 35 3030.6 -7.96 125.32

DIFFERENTIAL CORRECTIONS
 TOE -.7826 TRA-1.5226 TC3 .1312 BAU .0483 SGT 2150.5 SGR 373.1 SG3 229.4 ST 1066.2 SR 368.8 SS 1000.5
 RDE -.3240 RRA .0025 RC3 -.0562 FAU .03307 RRT .3923 RRF -.3982 RTF -.9211 CRT .8340 CRS .8982 CST .9913
 FDE 1.1085 FRA 1.5910 FC3-1.1299 BSP 7035 SGB 2182.6 R23 -.0298 R13 -.9215 LSA 1494.0 MSA 203.5 SSA 16.0
 BOE .8470 BRA 1.5226 BC3 .1427 FSP -650 SGI 2155.6 SG2 342.4 THA 3.99 EL1 1111.1 EL2 195.2 ALF 16.62

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 26.703 GAL 5.73 AZL 87.13 MCA 126.48 SMA 121.72 ECC .23086 INC 2.8663 V1 30.269
 RP 108.11 LAP 2.30 LOP 213.67 VP 36.944 GAP -11.73 AZP 91.71 TAL 160.11 TAP 286.59 RCA 93.62 APO 149.82 V2 35.053
 RC 44.405 GL 15.90 GP 3.64 ZAL 54.79 ZAP 8.97 ETS 338.41 ZAE 167.10 ETE 338.74 ZAC 117.93 ETC 163.94 CLP -8.21

PLANETOCENTRIC CONIC
 C3 23.517 VHL 4.849 DLA 27.73 RAL 25.74 RAD 6568.0 VEL 12.037 PTH 2.15 VHP 7.840 DPA 10.73 RAP 23.10 ECC 1.3870
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 51 3411.02 -22.45 125.12 258.33 72.28 3 1 42 2811.0 -24.67 117.15
 90.00 0 23 45 3739.96 -14.24 145.73 254.97 65.26 1 26 5 3140.0 -17.46 138.54
 100.00 4 10 51 3004.87 -26.47 96.50 259.60 75.57 5 0 55 2404.9 -28.19 88.12
 100.00 1 0 27 3621.35 -10.50 135.13 253.06 61.85 2 0 48 3021.3 -14.18 128.27
 110.00 6 20 35 2598.82 -33.12 67.26 261.18 81.00 7 3 54 1998.8 -34.01 58.13
 110.00 1 7 11 3600.16 -4.68 129.99 249.54 56.10 2 7 11 3000.2 -9.10 123.69

DIFFERENTIAL CORRECTIONS
 TOE -.7872 TRA-1.4928 TC3 .1855 BAU .0601 SGT 2206.4 SGR 367.8 SG3 252.9 ST 1105.7 SR 364.7 SS 1053.6
 RDE -.3086 RRA -.0120 RC3 -.0468 FAU .03560 RRT .4470 RRF -.4546 RTF -.9263 CRT .8482 CRS .9077 CST .9919
 FDE 1.1877 FRA 1.6728 FC3-1.3107 BSP 7235 SGB 2236.8 R23 -.0349 R13 -.9267 LSA 1557.9 MSA 195.6 SSA 15.9
 BOE .8456 BRA 1.4929 BC3 .1913 FSP -721 SGI 2212.7 SG2 328.1 THA 4.36 EL1 1149.3 EL2 185.8 ALF 16.06

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 26.818 GAL 5.45 AZL 87.19 MCA 129.69 SMA 122.42 ECC .22270 INC 2.8090 V1 30.269
 RP 108.15 LAP 2.16 LOP 216.88 VP 37.015 GAP -11.02 AZP 91.79 TAL 160.21 TAP 289.89 RCA 95.15 APO 149.68 V2 35.040
 RC 45.309 GL 16.25 GP 4.02 ZAL 55.06 ZAP 10.78 ETS 340.54 ZAE 165.25 ETE 345.02 ZAC 119.14 ETC 163.46 CLP -10.01

PLANETOCENTRIC CONIC
 C3 21.871 VHL 4.677 DLA 27.97 RAL 25.37 RAD 6567.9 VEL 11.969 PTH 2.13 VHP 7.441 DPA 11.64 RAP 24.26 ECC 1.3599
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 51 39 3431.77 -22.02 126.48 256.47 71.73 2 48 51 2831.8 -24.31 118.56
 90.00 0 34 1 3683.95 -15.81 142.37 253.94 66.20 1 35 25 3083.9 -18.89 135.05
 100.00 4 3 57 3005.26 -26.46 96.53 257.90 75.56 4 54 2 2405.3 -28.18 88.15
 100.00 1 4 24 3585.69 -11.64 133.09 251.87 62.27 2 4 10 2985.7 -15.26 126.17
 110.00 6 16 15 2591.20 -33.20 66.68 259.48 81.34 6 59 26 1991.2 -34.04 57.54
 110.00 1 8 36 3572.51 -5.73 128.54 248.32 56.24 2 8 9 2972.5 -10.12 122.21

DIFFERENTIAL CORRECTIONS
 TOE -.7907 TRA-1.4623 TC3 .2442 BAU .0721 SGT 2259.5 SGR 364.8 SG3 279.3 ST 1144.0 SR 361.7 SS 1110.0
 RDE -.2951 RRA -.0269 RC3 -.0342 FAU .03844 RRT .5078 RRF -.5175 RTF -.9311 CRT .8628 CRS .9174 CST .9924
 FDE 1.2750 FRA 1.7641 FC3-1.5215 BSP 7416 SGB 2288.7 R23 -.0412 R13 -.9316 LSA 1623.6 MSA 187.7 SSA 15.7
 BOE .8440 BRA 1.4625 BC3 .2466 FSP -801 SGI 2267.2 SG2 313.2 THA 4.78 EL1 1186.8 EL2 176.2 ALF 15.61

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 26.925 GAL 5.19 AZL 87.25 MCA 132.89 SMA 123.06 ECC .21513 INC 2.7461 V1 30.269
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.080 GAP -10.33 AZP 91.87 TAL 160.33 TAP 293.22 RCA 96.59 APO 149.54 V2 35.027
 RC 46.364 GL 16.53 GP 4.47 ZAL 55.36 ZAP 12.69 ETS 341.93 ZAE 163.48 ETE 349.97 ZAC 120.25 ETC 162.94 CLP -11.88

PLANETOCENTRIC CONIC
 C3 20.381 VHL 4.515 DLA 28.15 RAL 24.99 RAD 6567.8 VEL 11.906 PTH 2.12 VHP 7.058 DPA 12.58 RAP 25.32 ECC 1.3354
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 38 38 3452.22 -21.58 127.82 254.63 71.20 2 36 11 2852.2 -23.94 119.95
 90.00 0 43 59 3629.58 -17.27 139.05 252.90 67.21 1 44 29 3029.6 -20.21 131.61
 100.00 3 58 17 3002.01 -26.52 96.30 256.24 75.67 4 48 19 2402.0 -28.22 87.92
 100.00 1 7 2 3555.02 -12.60 131.32 250.64 62.67 2 6 17 2955.0 -16.17 124.34
 110.00 6 12 36 2581.59 -33.29 65.95 257.80 81.76 6 55 38 1981.6 -34.07 56.79
 110.00 1 9 12 3548.20 -6.65 127.26 247.08 56.39 2 8 20 2948.2 -11.02 120.89

DIFFERENTIAL CORRECTIONS
 TOE -.7900 TRA-1.4282 TC3 .3112 BAU .0849 SGT 2304.3 SGR 365.1 SG3 308.8 ST 1177.1 SR 360.1 SS 1168.2
 RDE -.2833 RRA -.0425 RC3 -.0173 FAU .04168 RRT .5727 RRF -.5855 RTF -.9358 CRT .8773 CRS .9273 CST .9929
 FDE 1.3692 FRA 1.8644 FC3-1.7703 BSP 7645 SGB 2333.0 R23 -.0492 R13 -.9365 LSA 1687.4 MSA 179.9 SSA 15.5
 BOE .8393 BRA 1.4288 BC3 .3117 FSP -894 SGI 2313.9 SG2 298.0 THA 5.27 EL1 1219.6 EL2 166.8 ALF 15.32

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 321.863

RL 147.19 LAL .00 LOL 87.16 VL 27.023 GAL 4.94 AZL 87.32 MCA 136.10 SMA 123.67 ECC .20813 INC 2.6764 V1 30.269
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.138 GAP -9.66 AZP 91.93 TAL 160.48 TAP 296.58 RCA 97.93 APO 149.41 V2 35.013
 RC 47.558 GL 16.75 GP 5.00 ZAL 55.68 ZAP 14.70 ETS 342.82 ZAE 161.87 ETE 354.10 ZAC 121.24 ETC 162.34 CLP -13.84

PLANETOCENTRIC CONIC

C3 19.030 VML 4.362 DLA 28.24 RAL 24.61 RAD 6567.8 VEL 11.850 PTH 2.10 VMP 6.690 DPA 13.56 RAP 26.28 ECC 1.3132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 27 52 3465.98 -21.27 128.71 252.88 70.86 2 25 38 2866.0 -23.69 120.88
 90.00 0 51 43 3583.25 -18.47 136.18 251.77 68.15 1 51 26 2983.2 -21.28 128.63
 100.00 3 54 23 2993.59 -26.66 95.72 254.64 75.95 4 44 16 2393.6 -28.33 87.31
 100.00 1 7 53 3530.88 -13.35 129.92 249.35 63.01 2 6 44 2930.9 -16.87 122.90
 110.00 6 9 54 2569.41 -33.41 65.01 256.13 82.30 6 52 43 1969.4 -34.11 55.84
 110.00 1 8 52 3527.82 -7.41 126.18 245.83 56.53 2 7 39 2927.8 -11.76 119.78

DIFFERENTIAL CORRECTIONS

TDE -.7884 TRA-1.3948 TC3 .3794 BAU .0965
 RDE -.2738 RRA -.0593 RC3 .0046 FAU .04528
 FDE 1.4725 FRA 1.9776 FC3-2.0599 BSP 7814
 BOE .8346 BRA 1.3961 BC3 .3795 FSP -997

MID-COURSE EXECUTION ACCURACY

SGT 2346.6 SGR 370.4 SG3 342.0
 RRT .6416 RRF -.6573 RTF -.9399
 SGB 2375.7 R23 -.0591 R13 -.9407
 SGI 2358.8 SG2 282.6 THA 5.87

ORBIT DETERMINATION ACCURACY

ST 1209.0 SR 360.7 SS 1229.8
 CRT .8922 CRS .9372 CST .9934
 LSA 1753.4 MSA 171.9 SSA 15.2
 EL1 1251.8 EL2 157.3 ALF 15.15

LAUNCH DATE DEC 19 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 328.555

RL 147.19 LAL .00 LOL 87.16 VL 27.112 GAL 4.72 AZL 87.40 MCA 139.30 SMA 124.23 ECC .20167 INC 2.5982 V1 30.269
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.191 GAP -9.02 AZP 91.97 TAL 160.66 TAP 299.96 RCA 99.18 APO 149.28 V2 35.000
 RC 48.883 GL 16.88 GP 5.64 ZAL 56.00 ZAP 16.83 ETS 343.33 ZAE 160.43 ETE 357.79 ZAC 122.10 ETC 161.67 CLP -15.88

PLANETOCENTRIC CONIC

C3 17.802 VML 4.219 DLA 28.25 RAL 24.24 RAD 6567.7 VEL 11.798 PTH 2.09 VMP 6.339 DPA 14.60 RAP 27.11 ECC 1.2930
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 54 3451.96 -21.58 127.80 251.42 71.21 2 23 26 2852.0 -23.95 119.93
 90.00 0 50 44 3566.04 -18.90 135.10 250.37 68.52 1 50 10 2966.0 -21.66 127.51
 100.00 3 52 48 2978.30 -26.90 94.65 253.11 76.46 4 42 26 2378.3 -28.50 86.21
 100.00 1 6 31 3514.93 -13.84 128.99 248.01 63.24 2 5 6 2914.9 -17.33 121.93
 110.00 6 8 22 2553.96 -33.54 63.83 254.50 82.99 6 50 56 1954.0 -34.15 54.64
 110.00 1 7 26 3512.04 -8.00 125.34 244.57 56.66 2 5 58 2912.0 -12.34 118.92

DIFFERENTIAL CORRECTIONS

TDE -.7846 TRA-1.3616 TC3 .4480 BAU .1069
 RDE -.2668 RRA -.0780 RC3 .0326 FAU .04926
 FDE 1.5852 FRA 2.1066 FC3-2.3954 BSP 7931
 BOE .8287 BRA 1.3638 BC3 .4492 FSP -1110

MID-COURSE EXECUTION ACCURACY

SGT 2384.0 SGR 382.7 SG3 379.2
 RRT .7110 RRF -.7298 RTF -.9436
 SGB 2414.5 R23 -.0716 R13 -.9446
 SGI 2399.7 SG2 267.4 THA 6.59

ORBIT DETERMINATION ACCURACY

ST 1237.6 SR 364.1 SS 1294.5
 CRT .9070 CRS .9471 CST .9940
 LSA 1820.1 MSA 164.0 SSA 14.9
 EL1 1281.5 EL2 148.1 ALF 15.15

LAUNCH DATE DEC 19 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 335.229

RL 147.19 LAL .00 LOL 87.16 VL 27.194 GAL 4.50 AZL 87.49 MCA 142.50 SMA 124.75 ECC .19573 INC 2.5092 V1 30.269
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.238 GAP -8.40 AZP 91.99 TAL 160.86 TAP 303.35 RCA 100.33 APO 149.17 V2 34.987
 RC 50.327 GL 16.89 GP 6.40 ZAL 56.31 ZAP 19.10 ETS 343.52 ZAE 159.20 ETE 1.27 ZAC 122.80 ETC 160.92 CLP -18.04

PLANETOCENTRIC CONIC

C3 16.685 VML 4.085 DLA 28.14 RAL 23.90 RAD 6567.7 VEL 11.750 PTH 2.07 VMP 6.003 DPA 15.71 RAP 27.80 ECC 1.2746
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 49 3403.61 -22.61 124.63 250.27 72.48 2 31 32 2803.6 -24.79 116.64
 90.00 0 39 6 3584.43 -18.44 136.25 248.68 68.12 1 38 50 2984.4 -21.25 128.70
 100.00 3 54 5 2954.59 -27.27 92.98 251.66 77.26 4 43 20 2354.6 -28.75 84.49
 100.00 1 2 30 3508.68 -14.04 128.63 246.61 63.33 2 0 59 2908.7 -17.50 121.55
 110.00 6 8 19 2534.43 -33.70 62.32 252.90 83.87 6 50 34 1934.4 -34.18 53.11
 110.00 1 4 45 3501.61 -8.39 124.78 243.30 56.74 2 3 7 2901.6 -12.71 118.35

DIFFERENTIAL CORRECTIONS

TDE -.7734 TRA-1.3237 TC3 .5259 BAU .1183
 RDE -.2623 RRA -.0988 RC3 .0693 FAU .05387
 FDE 1.7020 FRA 2.2482 FC3-2.7952 BSP 8110
 BOE .8167 BRA 1.3274 BC3 .5305 FSP -1243

MID-COURSE EXECUTION ACCURACY

SGT 2407.3 SGR 404.1 SG3 420.6
 RRT .7755 RRF -.7979 RTF -.9472
 SGB 2441.0 R23 -.0873 R13 -.9485
 SGI 2427.9 SG2 252.9 THA 7.50

ORBIT DETERMINATION ACCURACY

ST 1255.4 SR 370.9 SS 1358.0
 CRT .9211 CRS .9566 CST .9944
 LSA 1879.7 MSA 156.3 SSA 14.5
 EL1 1301.7 EL2 139.3 ALF 15.40

LAUNCH DATE DEC 19 1968

FLIGHT TIME 132.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 341.886

RL 147.19 LAL .00 LOL 87.16 VL 27.269 GAL 4.31 AZL 87.59 MCA 145.69 SMA 125.23 ECC .19028 INC 2.4063 V1 30.269
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.281 GAP -7.79 AZP 91.99 TAL 161.07 TAP 306.76 RCA 101.40 APO 149.06 V2 34.974
 RC 51.881 GL 16.77 GP 7.32 ZAL 56.61 ZAP 21.53 ETS 343.45 ZAE 158.16 ETE 4.78 ZAC 123.31 ETC 160.07 CLP -20.30

PLANETOCENTRIC CONIC

C3 15.664 VML 3.958 DLA 27.90 RAL 23.60 RAD 6567.6 VEL 11.707 PTH 2.06 VMP 5.684 DPA 16.92 RAP 28.30 ECC 1.2578
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 48 38 3340.40 -23.84 120.41 249.25 74.25 2 44 18 2740.4 -25.77 112.27
 90.00 0 22 57 3618.88 -17.55 138.39 246.92 67.42 1 23 15 3018.9 -20.46 130.92
 100.00 3 58 38 2921.28 -27.75 90.62 250.31 78.42 4 47 19 2321.3 -29.07 82.07
 100.00 0 55 37 3513.23 -13.90 128.89 245.17 63.27 1 54 10 2913.2 -17.37 121.83
 110.00 6 10 6 2509.83 -33.86 60.42 251.34 84.99 6 51 56 1909.8 -34.18 51.19
 110.00 1 0 39 3497.45 -8.55 124.56 242.03 56.78 1 58 56 2897.5 -12.86 118.12

DIFFERENTIAL CORRECTIONS

TDE -.7603 TRA-1.2877 TC3 .5967 BAU .1273
 RDE -.2611 RRA -.1233 RC3 .1160 FAU .05887
 FDE 1.8270 FRA 2.4119 FC3-3.2537 BSP 8185
 BOE .8039 BRA 1.2936 BC3 .6079 FSP -1386

MID-COURSE EXECUTION ACCURACY

SGT 2425.7 SGR 438.4 SG3 467.2
 RRT .8329 RRF -.8584 RTF -.9501
 SGB 2465.0 R23 -.1070 R13 -.9518
 SGI 2453.2 SG2 239.9 THA 8.64

ORBIT DETERMINATION ACCURACY

ST 1269.7 SR 382.9 SS 1423.9
 CRT .9349 CRS .9656 CST .9948
 LSA 1940.2 MSA 148.3 SSA 14.1
 EL1 1319.7 EL2 130.7 ALF 15.90

LAUNCH DATE DEC 19 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

RL 147.19 LAL .00 LOL 87.16 VL 27.337 GAL 4.12 AZL 87.71 HCA 148.89 SMA 125.67 ECC .18530 INC 2.2851 V1 30.269
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.318 GAP -7.21 AZP 91.96 TAL 161.29 TAP 310.18 RCA 102.38 APO 148.96 V2 34.961
 RC 53.536 GL 16.46 GP 8.46 ZAL 56.88 ZAP 24.15 ETS 343.11 ZAE 157.32 ETE 8.54 ZAC 123.59 ETC 159.10 CLP -22.70

PLANETOCENTRIC CONIC

C3 14.727 VML 3.838 DLA 27.48 RAL 23.39 RAD 6567.6 VEL 11.667 PTH 2.05 VHP 5.383 DPA 18.28 RAP 28.60 ECC 1.2424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 14 3269.23 -25.07 115.56 248.26 76.38 2 59 43 2669.2 -26.70 107.27
 90.00 0 4 35 3662.36 -16.40 141.06 245.16 66.59 1 5 37 3062.4 -19.43 133.69
 100.00 4 6 45 2877.50 -28.31 87.49 249.02 79.97 4 54 42 2277.5 -29.40 78.86
 100.00 0 45 45 3529.32 -13.40 129.83 243.71 63.03 1 44 35 2929.3 -16.91 122.80
 110.00 6 14 7 2478.92 -34.02 58.02 249.82 86.40 6 55 26 1878.9 -34.14 48.78
 110.00 0 54 53 3500.67 -8.43 124.73 240.77 56.75 1 53 13 2900.7 -12.75 118.29

DIFFERENTIAL CORRECTIONS

TDE -.7416 TRA-1.2509 TC3 .6649 BAU .1354
 RDE -.2637 RRA -.1529 RC3 .1767 FAU .06441
 FDE 1.9542 FRA 2.5978 FC3-3.7861 BSP 8232
 BOE .7871 BRA 1.2602 BC3 .6880 FSP -1545

MID-COURSE EXECUTION ACCURACY

SGT 2432.7 SGR 489.5 SG3 518.9
 RRT .8790 RRF -.9074 RTF -.9525
 SGB 2481.5 R23 -.1311 R13 -.9548
 SG1 2470.8 SG2 229.8 THA 10.12

ORBIT DETERMINATION ACCURACY

ST 1274.8 SR 401.3 SS 1488.3
 CRT .9477 CRS .9738 CST .9953
 LSA 1995.3 MSA 140.1 SSA 13.6
 EL1 1330.8 EL2 122.7 ALF 16.76

LAUNCH DATE DEC 19 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

RL 147.19 LAL .00 LOL 87.16 VL 27.398 GAL 3.96 AZL 87.86 HCA 152.08 SMA 126.07 ECC .18078 INC 2.1393 V1 30.269
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.352 GAP -6.64 AZP 91.89 TAL 161.52 TAP 313.59 RCA 103.28 APO 148.86 V2 34.948
 RC 55.282 GL 15.91 GP 9.89 ZAL 57.11 ZAP 26.99 ETS 342.52 ZAE 156.63 ETE 12.78 ZAC 123.60 ETC 157.99 CLP -25.25

PLANETOCENTRIC CONIC

C3 13.860 VML 3.723 DLA 26.84 RAL 23.27 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 5.101 DPA 19.84 RAP 28.63 ECC 1.2281
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 24 30 3190.55 -26.22 110.08 247.29 78.90 3 17 40 2590.5 -27.48 101.64
 90.00 23 40 28 3714.24 -14.97 144.19 243.46 65.68 24 42 23 3114.2 -18.13 136.94
 100.00 4 18 42 2822.37 -28.90 83.50 247.80 82.00 5 5 44 2222.4 -29.70 74.78
 100.00 0 32 53 3557.65 -12.52 131.48 242.24 62.63 1 32 10 2957.6 -16.09 124.50
 110.00 6 20 52 2440.08 -34.14 55.00 248.33 88.18 7 1 32 1840.1 -34.02 45.75
 110.00 0 47 12 3512.70 -7.98 125.37 239.54 56.65 1 45 45 2912.7 -12.31 118.96

DIFFERENTIAL CORRECTIONS

TDE -.7131 TRA-1.2099 TC3 .7366 BAU .1446
 RDE -.2704 RRA -.1892 RC3 .2573 FAU .07063
 FDE 2.0726 FRA 2.8045 FC3-4.4118 BSP 8313
 BOE .7626 BRA 1.2246 BC3 .7802 FSP -1727

MID-COURSE EXECUTION ACCURACY

SGT 2420.8 SGR 562.5 SG3 575.5
 RRT .9128 RRF -.9437 RTF -.9549
 SGB 2485.3 R23 -.1578 R13 -.9581
 SG1 2475.1 SG2 224.7 THA 12.08

ORBIT DETERMINATION ACCURACY

ST 1263.5 SR 427.5 SS 1545.0
 CRT .9590 CRS .9808 CST .9957
 LSA 2036.8 MSA 131.7 SSA 13.1
 EL1 1328.9 EL2 115.2 ALF 18.12

LAUNCH DATE DEC 19 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

RL 147.19 LAL .00 LOL 87.16 VL 27.454 GAL 3.81 AZL 88.04 HCA 155.27 SMA 126.44 ECC .17668 INC 1.9596 V1 30.269
 RP 108.47 LAP .82 LOP 242.44 VP 37.381 GAP -6.09 AZP 91.78 TAL 161.74 TAP 317.01 RCA 104.10 APO 148.78 V2 34.936
 RC 57.109 GL 15.03 GP 11.71 ZAL 57.28 ZAP 30.12 ETS 341.63 ZAE 156.02 ETE 17.79 ZAC 123.25 ETC 156.71 CLP -27.95

PLANETOCENTRIC CONIC

C3 13.053 VML 3.613 DLA 25.91 RAL 23.30 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 4.841 DPA 21.70 RAP 28.33 ECC 1.2148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 46 56 3102.58 -27.22 103.84 246.31 81.87 3 38 39 2502.6 -28.06 95.27
 90.00 23 18 17 3776.08 -13.20 147.87 241.84 64.72 24 21 13 3176.1 -16.50 140.75
 100.00 4 34 56 2754.44 -29.44 78.52 246.61 84.56 5 20 50 2154.4 -29.88 69.74
 100.00 0 16 55 3599.45 -11.20 133.88 240.81 62.10 1 16 54 2999.4 -14.85 126.98
 110.00 6 31 4 2391.05 -34.18 51.17 246.85 90.45 7 10 55 1791.1 -33.74 41.95
 110.00 0 37 16 3535.60 -7.12 126.59 238.36 56.48 1 36 11 2935.6 -11.48 120.21

DIFFERENTIAL CORRECTIONS

TDE -.6752 TRA-1.1672 TC3 .8034 BAU .1540
 RDE -.2818 RRA -.2359 RC3 .3658 FAU .07744
 FDE 2.1707 FRA 3.0351 FC3-5.1363 BSP 8378
 BOE .7316 BRA 1.1908 BC3 .8827 FSP -1927

MID-COURSE EXECUTION ACCURACY

SGT 2391.3 SGR 665.2 SG3 636.4
 RRT .9353 RRF -.9683 RTF -.9567
 SGB 2482.1 R23 -.1844 R13 -.9615
 SG1 2471.6 SG2 227.8 THA 14.71

ORBIT DETERMINATION ACCURACY

ST 1236.1 SR 464.0 SS 1589.3
 CRT .9687 CRS .9865 CST .9961
 LSA 2062.5 MSA 122.6 SSA 12.6
 EL1 1315.9 EL2 108.1 ALF 20.13

LAUNCH DATE DEC 19 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

RL 147.19 LAL .00 LOL 87.16 VL 27.504 GAL 3.67 AZL 88.27 HCA 158.45 SMA 126.77 ECC .17298 INC 1.7302 V1 30.269
 RP 108.51 LAP .64 LOP 245.62 VP 37.406 GAP -5.56 AZP 91.61 TAL 161.96 TAP 320.41 RCA 104.84 APO 148.70 V2 34.923
 RC 59.010 GL 13.67 GP 14.08 ZAL 57.37 ZAP 33.61 ETS 340.42 ZAE 155.32 ETE 23.90 ZAC 122.46 ETC 155.22 CLP -30.83

PLANETOCENTRIC CONIC

C3 12.292 VML 3.506 DLA 24.53 RAL 23.54 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 4.608 DPA 23.99 RAP 27.59 ECC 1.2023
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 36 3001.81 -27.98 96.56 245.29 85.44 4 3 38 2401.8 -28.32 87.91
 90.00 22 53 33 3851.16 -10.98 152.27 240.34 63.73 23 57 44 3251.2 -14.42 145.28
 100.00 4 56 14 2670.93 -29.82 72.34 245.42 87.79 5 40 44 2070.9 -29.81 63.54
 100.00 23 53 37 3657.26 -9.34 137.16 239.48 61.48 24 54 34 3057.3 -13.08 130.37
 110.00 6 45 42 2328.42 -34.04 46.28 245.37 93.34 7 24 31 1728.4 -33.20 37.14
 110.00 0 24 33 3572.54 -5.73 128.54 237.28 56.24 1 24 6 2972.5 -10.12 122.21

DIFFERENTIAL CORRECTIONS

TDE -.6293 TRA-1.1244 TC3 .8535 BAU .1636
 RDE -.2989 RRA -.2985 RC3 .5128 FAU .08431
 FDE 2.2344 FRA 3.2941 FC3-5.9380 BSP 8384
 BOE .6967 BRA 1.1634 BC3 .9957 FSP -2130

MID-COURSE EXECUTION ACCURACY

SGT 2344.4 SGR 809.6 SG3 700.3
 RRT .9488 RRF -.9836 RTF -.9579
 SGB 2480.2 R23 -.2054 R13 -.9651
 SG1 2468.3 SG2 243.0 THA 18.33

ORBIT DETERMINATION ACCURACY

ST 1193.9 SR 514.4 SS 1617.2
 CRT .9771 CRS .9909 CST .9967
 LSA 2071.8 MSA 111.7 SSA 12.2
 EL1 1296.1 EL2 100.8 ALF 22.98

LAUNCH DATE DEC 19 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 374.870

RL 147.19 LAL .00 LOL 87.16 VL 27.549 GAL 3.55 AZL 88.57 HCA 161.63 SMA 127.07 ECC .16967 INC 1.4260 V1 30.269
 RP 108.55 LAP .45 LOP 248.80 VP 37.428 GAP -5.04 AZP 91.35 TAL 162.17 TAP 323.81 RCA 105.51 APO 148.63 V2 34.911
 RC 60.976 GL 11.61 GP 17.26 ZAL 57.36 ZAP 37.57 ETS 338.82 ZAE 154.25 ETE 31.45 ZAC 121.05 ETC 153.46 CLP -33.90

PLANETOCENTRIC CONIC

C3 11.570 VHL 3.401 DLA 22.51 RAL 24.09 RAD 6567.4 VEL 11.531 PTH 2.01 VHP 4.411 DPA 26.94 RAP 26.28 ECC 1.1904
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 46 14 2882.03 -28.32 87.82 244.23 89.81 4 34 16 2282.0 -28.04 79.17
 90.00 22 25 16 3945.47 -8.08 157.69 239.06 62.77 23 31 1 3345.5 -11.67 150.85
 100.00 5 24 6 2566.47 -29.84 64.58 244.20 91.87 6 6 52 1966.5 -29.26 55.82
 100.00 23 30 5 3736.26 -6.74 141.59 238.34 60.81 24 32 21 3136.3 -10.58 134.90
 110.00 7 6 21 2246.57 -33.53 59.94 243.87 97.05 7 43 47 1646.6 -32.20 30.97
 110.00 0 8 15 3628.92 -3.59 131.50 236.39 55.98 1 8 44 3028.9 -8.03 125.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5599 TRA-1.0685 TC3 .9289 BAU .1827 SGT 2254.8 SGR 1009.6 SG3 760.2 ST 1109.6 SR 574.8 SS 1593.3
 RDE -.3177 RRA -.3826 RC3 .7292 FAU .09205 RRT .9565 RRF -.9922 RTF -.9598 CRT .9835 CRS .9940 CST .9972
 FDE 2.1975 FRA 3.5438 FC3-6.8880 BSP 8693 SGB 2470.5 R23 -.2082 R13 -.9708 LSA 2022.5 MSA 98.9 SSA 11.9
 BDE .6437 BRA 1.1349 BC3 1.1809 FSP -2380 SGI 2455.6 SG2 270.4 THA 23.49 EL1 1246.3 EL2 92.7 ALF 27.16

LAUNCH DATE DEC 19 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 381.408

RL 147.19 LAL .00 LOL 87.16 VL 27.589 GAL 3.44 AZL 89.00 HCA 164.82 SMA 127.34 ECC .16674 INC 1.0007 V1 30.269
 RP 108.58 LAP .26 LOP 251.98 VP 37.447 GAP -4.53 AZP 90.96 TAL 162.36 TAP 327.17 RCA 106.11 APO 148.57 V2 34.900
 RC 63.000 GL 8.37 GP 21.65 ZAL 57.25 ZAP 42.20 ETS 336.72 ZAE 152.25 ETE 40.59 ZAC 118.78 ETC 151.37 CLP -37.15

PLANETOCENTRIC CONIC

C3 10.894 VHL 3.301 DLA 19.40 RAL 25.11 RAD 6567.4 VEL 11.501 PTH 2.00 VHP 4.270 DPA 30.91 RAP 24.11 ECC 1.1793
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 57 2732.38 -27.86 76.90 243.15 95.26 5 13 29 2132.4 -26.84 68.39
 90.00 21 51 40 4070.26 -4.14 164.73 238.21 61.96 22 59 31 3470.3 -7.86 158.03
 100.00 6 1 23 2431.05 -29.12 54.58 242.99 97.08 6 41 54 1831.0 -27.83 46.02
 100.00 23 0 55 3846.82 -3.04 147.70 237.60 60.25 24 5 2 3246.8 -6.97 141.13
 110.00 7 35 45 2135.81 -32.29 31.55 242.38 101.88 8 11 21 1535.8 -30.32 22.89
 110.00 23 43 2 3714.82 -.31 135.99 235.90 55.82 24 44 57 3114.8 -4.79 129.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5300 TRA-1.0637 TC3 .7876 BAU .1834 SGT 2224.6 SGR 1312.8 SG3 817.5 ST 1091.6 SR 677.8 SS 1590.8
 RDE -.3530 RRA -.5232 RC3 .9828 FAU .09310 RRT .9539 RRF -.9968 RTF -.9529 CRT .9918 CRS .9964 CST .9989
 FDE 2.1483 FRA 3.9097 FC3-7.3981 BSP 7779 SGB 2583.1 R23 -.2188 R13 -.9725 LSA 2043.5 MSA 74.5 SSA 14.5
 BDE .6368 BRA 1.1854 BC3 1.2594 FSP -2360 SGI 2560.4 SG2 342.2 THA 29.97 EL1 1282.8 EL2 73.9 ALF 31.74

LAUNCH DATE DEC 19 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 387.916

RL 147.19 LAL .00 LOL 87.16 VL 27.624 GAL 3.34 AZL 89.65 HCA 167.99 SMA 127.58 ECC .16415 INC .3524 V1 30.269
 RP 108.62 LAP .07 LOP 255.16 VP 37.462 GAP -4.04 AZP 90.35 TAL 162.53 TAP 330.52 RCA 106.64 APO 148.52 V2 34.889
 RC 65.076 GL 3.05 GP 28.00 ZAL 57.14 ZAP 47.86 ETS 334.05 ZAE 148.36 ETE 50.99 ZAC 115.19 ETC 148.91 CLP -40.55

PLANETOCENTRIC CONIC

C3 10.313 VHL 3.211 DLA 14.35 RAL 26.87 RAD 6567.4 VEL 11.476 PTH 1.99 VHP 4.230 DPA 36.51 RAP 20.51 ECC 1.1697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 46 2530.87 -25.78 62.54 242.19 102.15 6 6 57 1930.9 -23.84 54.41
 90.00 21 8 56 4249.51 1.64 174.74 238.26 61.73 22 19 46 3649.5 -2.16 168.11
 100.00 6 53 46 2243.84 -26.80 41.17 241.93 103.77 7 31 10 1643.8 -24.64 33.03
 100.00 22 22 37 4011.78 2.55 156.75 237.75 60.21 23 29 29 3411.8 -1.43 150.23
 110.00 8 19 9 1976.67 -29.47 20.01 241.06 108.16 8 52 6 1376.7 -26.71 11.92
 110.00 23 13 44 3851.71 4.92 143.14 236.28 56.13 24 17 55 3251.7 .44 136.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4260 TRA -.9995 TC3 .8311 BAU .2279 SGT 2061.8 SGR 1727.7 SG3 830.4 ST 939.6 SR 751.1 SS 1400.7
 RDE -.3576 RRA -.7154 RC3 1.4286 FAU .09608 RRT .9545 RRF -.9988 RTF -.9531 CRT .9971 CRS .9975 CST .9997
 FDE 1.7395 FRA 4.0597 FC3-8.0654 BSP 8597 SGB 2689.9 R23 -.1782 R13 -.9827 LSA 1845.5 MSA 49.5 SSA 18.2
 BDE .5562 BRA 1.2292 BC3 1.6527 FSP -2504 SGI 2660.1 SG2 399.4 THA 39.73 EL1 1202.1 EL2 44.7 ALF 38.62

LAUNCH DATE DEC 19 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 394.402

RL 147.19 LAL .00 LOL 87.16 VL 27.655 GAL 3.26 AZL 90.75 HCA 171.17 SMA 127.79 ECC .16189 INC .7444 V1 30.269
 RP 108.65 LAP -.11 LOP 258.33 VP 37.475 GAP -3.57 AZP 89.26 TAL 162.67 TAP 333.84 RCA 107.10 APO 148.48 V2 34.878
 RC 67.198 GL -6.48 GP 37.58 ZAL 57.57 ZAP 55.20 ETS 330.76 ZAE 140.96 ETE 61.44 ZAC 109.49 ETC 146.13 CLP -43.93

PLANETOCENTRIC CONIC

C3 10.118 VHL 3.181 DLA 5.34 RAL 30.03 RAD 6567.4 VEL 11.468 PTH 1.99 VHP 4.416 DPA 44.79 RAP 14.15 ECC 1.1665
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 50 35 2230.52 -19.95 42.49 242.40 110.52 7 27 46 1630.5 -16.98 35.08
 90.00 20 8 18 4542.21 10.85 191.31 240.85 63.68 21 24 0 3942.2 7.23 184.51
 100.00 8 14 27 1960.03 -20.80 22.25 242.04 111.96 8 47 7 1360.0 -17.64 14.88
 100.00 21 27 7 4287.94 11.66 172.19 240.43 62.28 22 38 35 3687.9 7.86 165.47
 110.00 9 28 28 1728.38 -23.07 3.57 240.96 115.95 9 57 16 1128.4 -19.39 356.37
 110.00 22 29 36 4092.35 13.82 156.09 239.17 58.42 23 37 48 3492.4 9.54 149.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3261 TRA -.9570 TC3 .7490 BAU .2879 SGT 1889.3 SGR 2337.9 SG3 766.6 ST 784.2 SR 791.7 SS 1091.7
 RDE -.3069 RRA-1.0422 RC3 1.9919 FAU .08828 RRT .9492 RRF -.9996 RTF -.9478 CRT .9969 CRS .9980 CST .9902
 FDE 1.0345 FRA 3.9923 FC3-7.5534 BSP 9574 SGB 3005.9 R23 -.1282 R13 -.9914 LSA 1557.4 MSA 89.7 SSA 8.3
 BDE .4478 BRA 1.4149 BC3 2.1281 FSP -2348 SGI 2969.2 SG2 468.2 THA 51.37 EL1 1113.5 EL2 43.8 ALF 45.27

LAUNCH DATE DEC 19 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 18 1969

DISTANCE 400.858

MELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 27.682 GAL 3.20 AZL 93.06 MCA 174.33 SMA 127.97 ECC .15995 INC 3.0598 V1 30.269
 RP 108.68 LAP -.30 LOP 261.50 VP 37.485 GAP -3.10 AZP 86.96 TAL 162.78 TAP 337.11 RCA 107.50 APO 148.44 V2 34.867
 RC 69.360 GL -25.09 GP 52.53 ZAL 61.21 ZAP 65.24 ETS 326.98 ZAE 127.54 ETE 69.92 ZAC 100.43 ETC 143.37 CLP -46.48

PLANETOCENTRIC CONIC
 C3 12.110 VML 3.480 CLA -12.28 RAL 36.06 RAD 6567.5 VEL 11.554 PTH 2.02 VHP 5.278 DPA 57.10 RAP .48 ECC 1.1993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 29 32 1709.96 -4.99 11.64 249.21 117.91 9 58 2 1110.0 -1.22 4.99
 90.00 18 17 28 5136.69 25.20 228.85 253.08 76.64 19 43 4 4536.7 23.11 220.80
 100.00 10 44 36 1467.81 -5.92 353.32 248.70 119.35 11 9 3 867.8 -1.96 346.77
 100.00 19 45 5 4854.07 26.23 207.77 252.79 75.12 21 5 59 4254.1 23.93 199.73
 110.00 11 38 39 1298.53 -8.34 339.00 247.22 123.27 12 0 17 698.5 -3.90 332.72
 110.00 21 7 32 4596.11 28.94 187.25 251.86 70.96 22 24 8 3996.1 26.07 179.25

DIFFERENTIAL CORRECTIONS
 TDE -.2392 TRA -.9529 TC3 .5137 BAU .3693 SGT 1691.5 SGR 3173.5 SG3 552.4 ST 622.3 SR 837.5 SS 769.6
 RDE -.0580 RRA-1.6434 RC3 2.2228 FAU .06196 RRT .9384 RRF -.9999 RTF -.9381 CRT .8410 CRS .9993 CST .8204
 FDE .0790 FRA 3.3234 FC3-4.4296 BSP 11393 SGB 3596.1 R23 -.0759 R13 -.9971 LSA 1258.1 MSA 313.0 SSA 1.4
 BDE .2461 BRA 1.8997 BC3 2.2814 FSP -1728 SG1 3558.1 SG2 521.3 THA 62.79 EL1 1005.0 EL2 280.6 ALF 54.86

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 20 1969

DISTANCE 407.256

MELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 27.706 GAL 3.15 AZL 101.10 MCA 177.46 SMA 128.13 ECC .15835 INC11.1025 V1 30.269
 RP 108.72 LAP -.49 LOP 264.67 VP 37.493 GAP -2.66 AZP 78.91 TAL 162.82 TAP 340.28 RCA 107.84 APO 148.42 V2 34.858
 RC 71.560 GL -56.44 GP 75.73 ZAL 74.99 ZAP 78.56 ETS 318.08 ZAE 104.35 ETE 68.75 ZAC 87.27 ETC 136.66 CLP -36.40

PLANETOCENTRIC CONIC
 C3 40.883 VML 6.394 CLA -42.16 RAL 47.51 RAD 6568.6 VEL 12.738 PTH 2.32 VHP 9.645 DPA 71.65 RAP 314.22 ECC 1.6728
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.35 11 5 46 1731.56 21.44 30.00 291.79 127.21 11 34 38 1131.6 26.13 23.33
 122.65 18 12 37 5696.22 21.46 266.45 291.80 127.21 19 47 33 5096.2 26.14 259.77
 57.35 11 5 46 1731.56 21.44 30.00 291.79 127.21 11 34 38 1131.6 26.13 23.33
 122.65 18 12 37 5696.22 21.46 266.45 291.80 127.21 19 47 33 5096.2 26.14 259.77
 57.35 11 5 46 1731.56 21.44 30.00 291.79 127.21 11 34 38 1131.6 26.13 23.33
 122.65 18 12 37 5696.22 21.46 266.45 291.80 127.21 19 47 33 5096.2 26.14 259.77

DIFFERENTIAL CORRECTIONS
 TDE -.2928 TRA-1.5068 TC3 .1019 BAU .3130 SGT 1845.0 SGR 3918.0 SG3 205.8 ST 606.2 SR 1315.8 SS 643.8
 RDE .7362 RRA-3.1386 RC3 .5635 FAU .01470 RRT .9452 RRF -.9994 RTF -.9556 CRT .5629 CRS .9968 CST .6275
 FDE -.3710 FRA 1.9227 FC3 -.3112 BSP 12742 SGB 4330.7 R23 -.0245 R13 -.9997 LSA 1510.0 MSA 482.9 SSA .4
 BDE .7923 BRA 3.4815 BC3 .5726 FSP -618 SG1 4295.6 SG2 549.6 THA 65.58 EL1 1366.0 EL2 482.7 ALF 73.32

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 22 1969

DISTANCE 414.051

MELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 27.725 GAL 3.05 AZL 45.12 MCA 180.96 SMA 128.27 ECC .15657 INC44.8733 V1 30.269
 RP 108.74 LAP -.67 LOP 267.84 VP 37.499 GAP -2.13 AZP 134.87 TAL 163.21 TAP 344.16 RCA 108.19 APO 148.35 V2 34.848
 RC 73.792 GL 61.13 GP -74.32 ZAL 85.88 ZAP 86.55 ETS 167.84 ZAE 75.13 ETE 55.38 ZAC 106.50 ETC 354.13 CLP 77.12

PLANETOCENTRIC CONIC
 C3 497.600 VML 22.307 CLA 55.35 RAL 327.65 RAD 6572.4 VEL 24.878 PTH 3.34 VHP 25.814 DPA -56.51 RAP 124.93 ECC 9.1892
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.23 16 46 55 4966.04 -2.10 235.39 236.21 34.68 18 9 41 4366.0 -8.67 231.21
 139.77 1 54 20 3356.73 -2.09 105.85 236.20 34.68 2 50 17 2756.7 -8.65 101.68
 40.23 16 46 55 4966.04 -2.10 235.39 236.21 34.68 18 9 41 4366.0 -8.67 231.21
 139.77 1 54 20 3356.73 -2.09 105.85 236.20 34.68 2 50 17 2756.7 -8.65 101.68
 40.23 16 46 55 4966.04 -2.10 235.39 236.21 34.68 18 9 41 4366.0 -8.67 231.21
 139.77 1 54 20 3356.73 -2.09 105.85 236.20 34.68 2 50 17 2756.7 -8.65 101.68

DIFFERENTIAL CORRECTIONS
 TDE-5.9269 TRA 1.9582 TC3 -.1458 BAU 1.9692 SGT 1877.1 SGR 4019.4 SG3 80.7 ST 1545.4 SR 3833.9 SS 1960.0
 RD-14.9192 RRA .8582 RC3 -.2576 FAU-.03633 RRT .9178 RRF -.9976 RTF -.9429 CRT .9899 CRS .9998 CST .9927
 FDE 3.4166 FRA -.3350 FC3 .0632 BSP 8250 SGB 4436.1 R23 .0001 R13-1.0000 LSA 4570.3 MSA 203.5 SSA .5
 BOE16.0533 BRA 2.1380 BC3 .2960 FSP -159 SG1 4383.1 SG2 683.5 THA 66.18 EL1 4128.7 EL2 203.5 ALF 68.19

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 24 1969

DISTANCE 420.241

MELIOCENTRIC CONIC
 RL 147.19 LAL .00 LOL 87.16 VL 27.742 GAL 3.06 AZL 77.42 MCA 183.94 SMA 128.38 ECC .15569 INC12.5761 V1 30.269
 RP 108.77 LAP -.86 LOP 271.01 VP 37.503 GAP -1.75 AZP 102.55 TAL 163.02 TAP 346.95 RCA 108.39 APO 148.37 V2 34.839
 RC 76.053 GL 59.10 GP -67.35 ZAL 76.75 ZAP 78.56 ETS 35.99 ZAE 110.51 ETE 289.97 ZAC 116.71 ETC 216.42 CLP -58.99

PLANETOCENTRIC CONIC
 C3 49.425 VML 7.030 CLA 60.37 RAL 342.07 RAD 6568.8 VEL 13.069 PTH 2.39 VHP 6.538 DPA -50.66 RAP 64.50 ECC 1.8134
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.17 17 28 23 4597.67 -25.57 226.61 236.29 33.24 18 45 0 3997.7 -32.17 221.85
 145.83 3 7 51 2925.47 -25.56 89.30 236.27 33.23 3 56 36 2325.5 -32.16 84.55
 34.17 17 28 23 4597.67 -25.57 226.61 236.29 33.24 18 45 0 3997.7 -32.17 221.85
 145.83 3 7 51 2925.47 -25.56 89.30 236.27 33.23 3 56 36 2325.5 -32.16 84.55
 34.17 17 28 23 4597.67 -25.57 226.61 236.29 33.24 18 45 0 3997.7 -32.17 221.85
 145.83 3 7 51 2925.47 -25.56 89.30 236.27 33.23 3 56 36 2325.5 -32.16 84.55

DIFFERENTIAL CORRECTIONS
 TDE-1.4898 TRA -.3785 TC3 .0445 BAU .2783 SGT 1366.5 SGR 4108.7 SG3 376.5 ST 1228.5 SR 4066.3 SS 2429.4
 RDE 4.9893 RRA .0170 RC3 -.4188 FAU .02721 RRT -.8890 RRF .9989 RTF -.9078 CRT -.9886 CRS -.9999 CST .9906
 FDE 5.2760 FRA .1396 FC3 -.4767 BSP 13045 SGB 4330.0 R23 .0011 R13 .9998 LSA 4890.3 MSA 177.0 SSA 1.4
 BDE 5.2070 BRA .3789 BC3 .4211 FSP -1181 SG1 4288.3 SG2 599.5 THA 106.81 EL1 4244.1 EL2 176.9 ALF 106.66

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 19 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 426.600

RL 147.19 LAL .00 LOL 87.16 VL 27.755 GAL 3.05 AZL 81.56 MCA 187.09 SMA 128.47 ECC .15486 INC 8.4373 V1 30.269
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.506 GAP -1.33 AZP 98.37 TAL 162.96 TAP 350.05 RCA 108.58 APO 148.37 V2 34.831
 RC 78.340 GL 51.16 GP -51.11 ZAL 72.07 ZAP 76.42 ETS 21.09 ZAE 127.38 ETE 279.85 ZAC 120.17 ETC 199.21 CLP -68.04

PLANETOCENTRIC CONIC

C3 27.263 VHL 5.221 DLA 55.71 RAL 354.64 RAD 6568.1 VEL 12.192 PTH 2.19 VHP 4.317 DPA -30.65 RAP 48.46 ECC 1.4487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.79 18 33 20 4419.13 -32.05 214.16 239.38 41.66 19 47 0 3819.1 -37.85 207.85
 140.21 3 43 12 2804.76 -32.04 84.04 239.36 41.65 4 29 56 2204.8 -37.84 77.73
 39.79 18 33 20 4419.13 -32.05 214.16 239.38 41.66 19 47 0 3819.1 -37.85 207.85
 140.21 3 43 12 2804.76 -32.04 84.04 239.36 41.65 4 29 56 2204.8 -37.84 77.73
 39.79 18 33 20 4419.13 -32.05 214.16 239.38 41.66 19 47 0 3819.1 -37.85 207.85
 140.21 3 43 12 2804.76 -32.04 84.04 239.36 41.65 4 29 56 2204.8 -37.84 77.73

DIFFERENTIAL CORRECTIONS

TDE -.2815 TRA -.3668 TC3 -.0418 BAU .3308
 ROE 3.1359 RRA .4557 RC3 -.9067 FAU .07681
 FDE 7.7935 FRA 1.2999 FC3-2.4390 BSP 11520
 BOE 3.1485 BRA .5850 BC3 .9076 FSP -2522

MID-COURSE EXECUTION ACCURACY

SGT 779.6 SGR 3677.7 SG3 801.4
 RRT -.5774 RRF .9993 RTF -.6000
 SGB 3759.4 R23 .0067 R13 .9996
 SG1 3705.9 SG2 631.6 THA 97.19

ORBIT DETERMINATION ACCURACY

ST 375.9 SR 3451.5 SS 3202.7
 CRT -.8630 CRS -.9999 CST .8687
 LSA 4719.7 MSA 189.6 SSA 2.2
 EL1 3466.8 EL2 189.1 ALF 95.39

LAUNCH DATE DEC 19 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 432.953

RL 147.19 LAL .00 LOL 87.16 VL 27.766 GAL 3.05 AZL 83.16 MCA 190.25 SMA 128.55 ECC .15426 INC 6.8415 V1 30.269
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.506 GAP -.92 AZP 96.73 TAL 162.88 TAP 353.12 RCA 108.72 APO 148.38 V2 34.824
 RC 80.651 GL 46.11 GP -40.73 ZAL 69.46 ZAP 78.16 ETS 13.19 ZAE 138.17 ETE 273.36 ZAC 120.10 ETC 189.93 CLP -74.29

PLANETOCENTRIC CONIC

C3 21.002 VHL 4.583 DLA 52.08 RAL .71 RAD 6567.9 VEL 11.932 PTH 2.12 VHP 3.572 DPA -30.58 RAP 40.10 ECC 1.3456
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.27 19 10 33 4327.03 -33.44 205.60 239.76 47.43 20 22 40 3727.0 -38.63 198.48
 135.73 3 54 24 2769.15 -33.43 81.76 239.75 47.42 4 40 33 2169.1 -38.62 74.64
 44.27 19 10 33 4327.03 -33.44 205.60 239.76 47.43 20 22 40 3727.0 -38.63 198.48
 135.73 3 54 24 2769.15 -33.43 81.76 239.75 47.42 4 40 33 2169.1 -38.62 74.64
 44.27 19 10 33 4327.03 -33.44 205.60 239.76 47.43 20 22 40 3727.0 -38.63 198.48
 135.73 3 54 24 2769.15 -33.43 81.76 239.75 47.42 4 40 33 2169.1 -38.62 74.64

DIFFERENTIAL CORRECTIONS

TDE .1466 TRA -.2705 TC3 -.2254 BAU .3107
 ROE 2.2434 RRA .5382 RC3-1.0835 FAU .11731
 FDE 9.1817 FRA 2.4399 FC3-4.8357 BSP 9960
 BOE 2.2482 BRA .6024 BC3 1.1067 FSP -3657

MID-COURSE EXECUTION ACCURACY

SGT 615.7 SGR 3170.5 SG3 1146.4
 RRT .0597 RRF .9992 RTF .0352
 SGB 3229.7 R23 .0268 R13 .9991
 SG1 3170.7 SG2 614.6 THA 89.31

ORBIT DETERMINATION ACCURACY

ST 246.7 SR 2824.1 SS 3572.5
 CRT .6601 CRS -.9999 CST -.6507
 LSA 4556.7 MSA 188.5 SSA 2.7
 EL1 2828.8 EL2 185.0 ALF 86.69

LAUNCH DATE DEC 19 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 439.291

RL 147.19 LAL .00 LOL 87.16 VL 27.773 GAL 3.06 AZL 84.01 MCA 193.41 SMA 128.60 ECC .15388 INC 5.9932 V1 30.269
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.505 GAP -.51 AZP 95.83 TAL 162.75 TAP 356.16 RCA 108.81 APO 148.39 V2 34.816
 RC 82.981 GL 42.73 GP -33.67 ZAL 67.77 ZAP 81.88 ETS 7.81 ZAE 145.28 ETE 265.52 ZAC 118.43 ETC 183.78 CLP -80.22

PLANETOCENTRIC CONIC

C3 18.209 VHL 4.267 DLA 49.51 RAL 4.25 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 3.225 DPA -25.28 RAP 34.25 ECC 1.2997
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.53 19 34 57 4269.27 -33.55 199.74 239.77 51.18 20 46 6 3669.3 -38.32 192.21
 132.47 3 58 14 2759.25 -33.54 80.85 239.76 51.17 4 44 14 2159.3 -38.30 73.33
 47.53 19 34 57 4269.27 -33.55 199.74 239.77 51.18 20 46 6 3669.3 -38.32 192.21
 132.47 3 58 14 2759.25 -33.54 80.85 239.76 51.17 4 44 14 2159.3 -38.30 73.33
 47.53 19 34 57 4269.27 -33.55 199.74 239.77 51.18 20 46 6 3669.3 -38.32 192.21
 132.47 3 58 14 2759.25 -33.54 80.85 239.76 51.17 4 44 14 2159.3 -38.30 73.33

DIFFERENTIAL CORRECTIONS

TDE .4412 TRA -.1553 TC3 -.4695 BAU .2909
 ROE 1.7359 RRA .5357 RC3-1.0989 FAU .14582
 FDE 9.8649 FRA 3.3784 FC3-6.9331 BSP 8648
 BOE 1.7911 BRA .5577 BC3 1.1950 FSP -4466

MID-COURSE EXECUTION ACCURACY

SGT 784.0 SGR 2745.8 SG3 1391.2
 RRT .6508 RRF .9989 RTF .6318
 SGB 2855.5 R23 .0647 R13 .9970
 SG1 2795.0 SG2 584.7 THA 78.99

ORBIT DETERMINATION ACCURACY

ST 600.3 SR 2354.6 SS 3736.9
 CRT .9545 CRS -.9999 CST -.9498
 LSA 4453.5 MSA 186.3 SSA 3.3
 EL1 2423.7 EL2 173.9 ALF 76.25

LAUNCH DATE DEC 19 1968

FLIGHT TIME 164.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 445.609

RL 147.19 LAL .00 LOL 87.16 VL 27.779 GAL 3.09 AZL 84.54 MCA 196.57 SMA 128.64 ECC .15373 INC 5.4640 V1 30.269
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.503 GAP -.11 AZP 95.24 TAL 162.59 TAP 359.16 RCA 108.86 APO 148.41 V2 34.810
 RC 85.328 GL 40.30 GP -28.55 ZAL 66.53 ZAP 86.55 ETS 3.94 ZAE 149.79 ETE 255.73 ZAC 116.08 ETC 179.47 CLP -86.07

PLANETOCENTRIC CONIC

C3 16.679 VHL 4.084 DLA 47.63 RAL 6.65 RAD 6567.7 VEL 11.750 PTH 2.07 VHP 3.041 DPA -21.71 RAP 29.53 ECC 1.2745
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.95 19 52 43 4229.03 -33.30 195.54 239.86 53.74 21 3 12 3629.0 -37.77 187.79
 130.05 3 59 41 2758.84 -33.29 80.58 239.85 53.73 4 45 40 2158.8 -37.76 72.84
 49.95 19 52 43 4229.03 -33.30 195.54 239.86 53.74 21 3 12 3629.0 -37.77 187.79
 130.05 3 59 41 2758.84 -33.29 80.58 239.85 53.73 4 45 40 2158.8 -37.76 72.84
 49.95 19 52 43 4229.03 -33.30 195.54 239.86 53.74 21 3 12 3629.0 -37.77 187.79
 130.05 3 59 41 2758.84 -33.29 80.58 239.85 53.73 4 45 40 2158.8 -37.76 72.84

DIFFERENTIAL CORRECTIONS

TDE .6917 TRA -.0273 TC3 -.7471 BAU .2863
 ROE 1.4052 RRA .5050 RC3-1.0440 FAU .16499
 FDE 10.1057 FRA 4.0926 FC3-8.5639 BSP 7815
 BOE 1.5662 BRA .5057 BC3 1.2838 FSP -5024

MID-COURSE EXECUTION ACCURACY

SGT 1147.8 SGR 2391.4 SG3 1551.6
 RRT .8649 RRF .9982 RTF .8511
 SGB 2652.5 R23 .1128 R13 .9921
 SG1 2599.0 SG2 530.2 THA 66.42

ORBIT DETERMINATION ACCURACY

ST 970.8 SR 1996.6 SS 3785.8
 CRT .9845 CRS -.9998 CST -.9809
 LSA 4384.9 MSA 183.8 SSA 3.9
 EL1 2214.8 EL2 153.5 ALF 64.29

LAUNCH DATE DEC 19 1968

FLIGHT TIME 166.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 451.907

RL 147.19 LAL .00 LOL 87.16 VL 27.782 GAL 3.12 AZL 84.90 HCA 199.74 SMA 128.66 ECC .15379 INC 5.1008 VI 30.269
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.500 GAP .28 AZP 94.80 TAL 162.37 TAP 2.11 RCA 108.97 APO 148.44 V2 34.804
 RC 87.691 GL 38.42 GP -24.63 ZAL 65.51 ZAP 91.67 ETS 1.07 ZAE 152.23 ETE 244.50 ZAC 113.48 ETC 176.35 CLP -91.84

PLANETOCENTRIC CONIC

C3 15.750 VHL 3.969 DLA 46.20 RAL 8.50 RAD 6567.6 VEL 11.710 PTH 2.06 VMP 2.945 DPA -19.20 RAP 25.47 ECC 1.2592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.83 20 6 46 4199.18 -32.94 192.38 240.10 55.56 21 16 45 3599.2 -37.20 184.52
 128.17 4 0 23 2762.56 -32.93 80.63 240.09 55.55 4 46 26 2162.6 -37.18 72.77
 51.83 20 6 46 4199.18 -32.94 192.38 240.10 55.56 21 16 45 3599.2 -37.20 184.52
 128.17 4 0 23 2762.56 -32.93 80.63 240.09 55.55 4 46 26 2162.6 -37.18 72.77
 51.83 20 6 46 4199.18 -32.94 192.38 240.10 55.56 21 16 45 3599.2 -37.20 184.52
 128.17 4 0 23 2762.56 -32.93 80.63 240.09 55.55 4 46 26 2162.6 -37.18 72.77

DIFFERENTIAL CORRECTIONS

TOE .9170 TRA .1077 TC3-1.0465 BAU .2986
 ROE 1.1686 RRA .4630 RC3 -.9569 FAU .17681
 FDE 10.0424 FRA 4.6004 FC3-9.7188 BSP 7521
 BOE 1.4854 BRA .4761 BC3 1.4180 FSP -5381

MID-COURSE EXECUTION ACCURACY

SGT 1578.9 SGR 2087.9 SG3 1643.4
 RRT .9348 RRF .9972 RTF .9242
 SGB 2617.7 R23 .1516 R13 .9859
 SG1 2578.0 SG2 454.1 THA 53.42

ORBIT DETERMINATION ACCURACY

ST 1325.8 SR 1712.1 SS 3761.4
 CRT .9929 CRS -.9997 CST -.9895
 LSA 4336.3 MSA 181.7 SSA 4.6
 EL1 2161.8 EL2 125.3 ALF 52.30

LAUNCH DATE DEC 19 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 458.186

RL 147.19 LAL .00 LOL 87.16 VL 27.782 GAL 3.17 AZL 85.17 HCA 202.90 SMA 128.66 ECC .15405 INC 4.8347 VI 30.269
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.496 GAP .67 AZP 94.46 TAL 162.11 TAP 5.01 RCA 108.84 APO 148.48 V2 34.799
 RC 90.065 GL 36.91 GP -21.51 ZAL 64.61 ZAP 96.95 ETS 358.89 ZAE 152.96 ETE 233.03 ZAC 110.87 ETC 174.03 CLP -97.48

PLANETOCENTRIC CONIC

C3 15.158 VHL 3.893 DLA 45.07 RAL 10.05 RAD 6567.6 VEL 11.685 PTH 2.06 VMP 2.904 DPA -17.37 RAP 21.89 ECC 1.2495
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.34 20 18 33 4176.17 -32.56 189.94 240.51 56.92 21 28 9 3576.2 -36.65 182.00
 126.66 4 0 59 2768.32 -32.55 80.86 240.50 56.91 4 47 8 2168.3 -36.64 72.93
 53.34 20 18 33 4176.17 -32.56 189.94 240.51 56.92 21 28 9 3576.2 -36.65 182.00
 126.66 4 0 59 2768.32 -32.55 80.86 240.50 56.91 4 47 8 2168.3 -36.64 72.93
 53.34 20 18 33 4176.17 -32.56 189.94 240.51 56.92 21 28 9 3576.2 -36.65 182.00
 126.66 4 0 59 2768.32 -32.55 80.86 240.50 56.91 4 47 8 2168.3 -36.64 72.93

DIFFERENTIAL CORRECTIONS

TOE 1.1228 TRA .2469 TC3-1.3537 BAU .3244
 ROE .9893 RRA .4200 RC3 -.8540 FAU .18249
 FDE 9.7629 FRA 4.9401 FC-10.4229 BSP 7736
 BOE 1.4965 BRA .4872 BC3 1.6006 FSP -5563

MID-COURSE EXECUTION ACCURACY

SGT 2026.4 SGR 1824.3 SG3 1680.4
 RRT .9622 RRF .9956 RTF .9538
 SGB 2726.6 R23 .1666 R13 .9817
 SG1 2701.0 SG2 372.7 THA 41.88

ORBIT DETERMINATION ACCURACY

ST 1659.9 SR 1479.6 SS 3688.3
 CRT .9963 CRS -.9994 CST -.9930
 LSA 4302.9 MSA 180.3 SSA 5.3
 EL1 2221.6 EL2 94.4 ALF 41.70

LAUNCH DATE DEC 19 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 464.444

RL 147.19 LAL .00 LOL 87.16 VL 27.781 GAL 3.24 AZL 85.37 HCA 206.06 SMA 128.65 ECC .15452 INC 4.6302 VI 30.269
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.491 GAP 1.05 AZP 94.16 TAL 161.80 TAP 7.86 RCA 108.77 APO 148.53 V2 34.795
 RC 92.449 GL 35.62 GP -18.94 ZAL 63.76 ZAP 102.20 ETS 357.23 ZAE 152.38 ETE 222.56 ZAC 108.38 ETC 172.29 CLP -102.91

PLANETOCENTRIC CONIC

C3 14.781 VHL 3.845 DLA 44.15 RAL 11.45 RAD 6567.6 VEL 11.669 PTH 2.05 VMP 2.905 DPA -15.97 RAP 18.73 ECC 1.2433
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.59 20 28 53 4157.99 -32.17 187.98 241.07 57.96 21 38 11 3558.0 -36.14 180.00
 125.41 4 1 46 2775.23 -32.16 81.21 241.07 57.95 4 48 1 2175.2 -36.13 73.23
 54.59 20 28 53 4157.99 -32.17 187.98 241.07 57.96 21 38 11 3558.0 -36.14 180.00
 125.41 4 1 46 2775.23 -32.16 81.21 241.07 57.95 4 48 1 2175.2 -36.13 73.23
 54.59 20 28 53 4157.99 -32.17 187.98 241.07 57.96 21 38 11 3558.0 -36.14 180.00
 125.41 4 1 46 2775.23 -32.16 81.21 241.07 57.95 4 48 1 2175.2 -36.13 73.23

DIFFERENTIAL CORRECTIONS

TOE 1.3104 TRA .3881 TC3-1.6572 BAU .3590
 ROE .8482 RRA .3760 RC3 -.7445 FAU .18304
 FDE 9.3269 FRA 5.1330 FC-10.7210 BSP 8356
 BOE 1.5610 BRA .5404 BC3 1.8168 FSP -5603

MID-COURSE EXECUTION ACCURACY

SGT 2467.2 SGR 1592.4 SG3 1672.7
 RRT .9743 RRF .9931 RTF .9681
 SGB 2936.5 R23 .1570 R13 .9806
 SG1 2920.8 SG2 303.2 THA 32.56

ORBIT DETERMINATION ACCURACY

ST 1968.1 SR 1285.8 SS 3580.1
 CRT .9982 CRS -.9991 CST -.9947
 LSA 4279.3 MSA 179.0 SSA 5.9
 EL1 2350.0 EL2 65.0 ALF 33.14

LAUNCH DATE DEC 19 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 470.682

RL 147.19 LAL .00 LOL 87.16 VL 27.778 GAL 3.31 AZL 85.53 HCA 209.22 SMA 128.63 ECC .15518 INC 4.4672 VI 30.269
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.485 GAP 1.43 AZP 93.90 TAL 161.45 TAP 10.67 RCA 108.67 APO 148.59 V2 34.791
 RC 94.840 GL 34.48 GP -16.78 ZAL 62.92 ZAP 107.30 ETS 355.95 ZAE 150.90 ETE 213.78 ZAC 106.12 ETC 170.97 CLP -108.10

PLANETOCENTRIC CONIC

C3 14.554 VHL 3.815 DLA 43.37 RAL 12.76 RAD 6567.6 VEL 11.659 PTH 2.05 VMP 2.937 DPA -14.85 RAP 15.96 ECC 1.2395
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.66 20 38 22 4143.30 -31.79 186.38 241.79 58.78 21 47 25 3543.3 -35.66 178.37
 124.34 4 2 47 2783.05 -31.78 81.63 241.78 58.77 4 49 10 2183.0 -35.65 73.63
 55.66 20 38 22 4143.30 -31.79 186.38 241.79 58.78 21 47 25 3543.3 -35.66 178.37
 124.34 4 2 47 2783.05 -31.78 81.63 241.78 58.77 4 49 10 2183.0 -35.65 73.63
 55.66 20 38 22 4143.30 -31.79 186.38 241.79 58.78 21 47 25 3543.3 -35.66 178.37
 124.34 4 2 47 2783.05 -31.78 81.63 241.78 58.77 4 49 10 2183.0 -35.65 73.63

DIFFERENTIAL CORRECTIONS

TOE 1.4803 TRA .5301 TC3-1.9462 BAU .3984
 ROE .7354 RRA .3339 RC3 -.6352 FAU .17956
 FDE 8.7909 FRA 5.2111 FC-10.6808 BSP 9225
 BOE 1.6529 BRA .6265 BC3 2.0473 FSP -5521

MID-COURSE EXECUTION ACCURACY

SGT 2889.2 SGR 1389.4 SG3 1631.7
 RRT .9791 RRF .9893 RTF .9759
 SGB 3205.9 R23 .1291 R13 .9815
 SG1 3195.7 SG2 255.2 THA 25.39

ORBIT DETERMINATION ACCURACY

ST 2247.8 SR 1123.8 SS 3449.6
 CRT .9992 CRS -.9985 CST -.9957
 LSA 4264.2 MSA 177.9 SSA 6.6
 EL1 2512.7 EL2 39.3 ALF 26.55

LAUNCH DATE DEC 19 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 476.900

RL 147.19 LAL .00 LOL 87.16 VL 27.773 GAL 3.40 AZL 85.67 HCA 212.38 SMA 128.60 ECC .15604 INC 4.3336 V1 30.269
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.479 GAP 1.80 AZP 93.66 TAL 161.05 TAP 13.43 RCA 108.53 APO 148.66 V2 34.788
 RC 97.236 GL 33.45 GP -14.95 ZAL 62.08 ZAP 112.18 ETS 354.98 ZAE 148.92 ETE 206.80 ZAC 104.13 ETC 169.98 CLP-113.00

PLANETOCENTRIC CONIC

C3 14.442 VHL 3.800 DLA 42.70 RAL 14.05 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 2.995 OPA -13.91 RAP 13.59 ECC 1.2377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.59 20 47 17 4131.37 -31.41 185.05 242.64 59.43 21 56 8 3531.4 -35.20 177.04
 123.41 4 4 7 2791.54 -31.40 82.12 242.63 59.42 4 50 38 2191.5 -35.19 74.11
 56.59 20 47 17 4131.37 -31.41 185.05 242.64 59.43 21 56 8 3531.4 -35.20 177.04
 123.41 4 4 7 2791.54 -31.40 82.12 242.63 59.42 4 50 38 2191.5 -35.19 74.11
 56.59 20 47 17 4131.37 -31.41 185.05 242.64 59.43 21 56 8 3531.4 -35.20 177.04
 123.41 4 4 7 2791.54 -31.40 82.12 242.63 59.42 4 50 38 2191.5 -35.19 74.11

DIFFERENTIAL CORRECTIONS

TOE 1.6336 TRA .6728 TC3-2.2114 BAU .4390
 RDE .6449 RRA .2950 RC3 -.5277 FAU .17240
 FDE 8.2053 FRA 5.2097 FC-10.3346 BSP 10199
 BOE 1.7563 BRA .7346 BC3 2.2735 FSP -5327

MID-COURSE EXECUTION ACCURACY

SGT 3285.8 SGR 1213.5 SG3 1567.1
 RRT .9792 RRF .9835 RTF .9803
 SGB 3502.7 R23 .0927 R13 .9828
 SG1 3495.0 SG2 231.6 THA 19.97

ORBIT DETERMINATION ACCURACY

ST 2498.0 SR 989.2 SS 3308.0
 CRT .9998 CRS -.9976 CST -.9962
 LSA 4258.0 MSA 177.1 SSA 7.2
 EL1 2686.7 EL2 18.2 ALF 21.60

LAUNCH DATE DEC 19 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 483.098

RL 147.19 LAL .00 LOL 87.16 VL 27.766 GAL 3.51 AZL 85.78 HCA 215.54 SMA 128.55 ECC .15709 INC 4.2214 V1 30.269
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.471 GAP 2.17 AZP 93.44 TAL 160.60 TAP 16.14 RCA 108.36 APO 148.74 V2 34.786
 RC 99.636 GL 32.49 GP -13.38 ZAL 61.21 ZAP 116.79 ETS 354.24 ZAE 146.70 ETE 201.38 ZAC 102.45 ETC 169.24 CLP-117.60

PLANETOCENTRIC CONIC

C3 14.422 VHL 3.798 DLA 42.11 RAL 15.32 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 3.076 OPA -13.07 RAP 11.61 ECC 1.2374
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.43 20 55 50 4121.64 -31.02 183.93 243.63 59.96 22 4 32 3521.6 -34.75 175.92
 122.57 4 5 44 2800.66 -31.01 82.66 243.62 59.95 4 52 25 2200.7 -34.75 74.65
 57.43 20 55 50 4121.64 -31.02 183.93 243.63 59.96 22 4 32 3521.6 -34.75 175.92
 122.57 4 5 44 2800.66 -31.01 82.66 243.62 59.95 4 52 25 2200.7 -34.75 74.65
 57.43 20 55 50 4121.64 -31.02 183.93 243.63 59.96 22 4 32 3521.6 -34.75 175.92
 122.57 4 5 44 2800.66 -31.01 82.66 243.62 59.95 4 52 25 2200.7 -34.75 74.65

DIFFERENTIAL CORRECTIONS

TOE 1.7692 TRA .8140 TC3-2.4515 BAU .4799
 RDE .5715 RRA .2586 RC3 -.4301 FAU .16370
 FDE 7.5875 FRA 5.1327 FC3-9.8267 BSP 11237
 BOE 1.8592 BRA .8541 BC3 2.4889 FSP -5093

MID-COURSE EXECUTION ACCURACY

SGT 3651.3 SGR 1061.5 SG3 1485.7
 RRT .9754 RRF .9751 RTF .9832
 SGB 3802.5 R23 .0564 R13 .9843
 SG1 3795.8 SG2 225.2 THA 15.89

ORBIT DETERMINATION ACCURACY

ST 2715.6 SR 876.5 SS 3154.5
 CRT 1.0000 CRS -.9963 CST -.9966
 LSA 4250.0 MSA 176.3 SSA 7.9
 EL1 2853.6 EL2 8.2 ALF 17.89

LAUNCH DATE DEC 19 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 489.275

RL 147.19 LAL .00 LOL 87.16 VL 27.758 GAL 3.62 AZL 85.87 HCA 218.71 SMA 128.49 ECC .15834 INC 4.1253 V1 30.269
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.464 GAP 2.54 AZP 93.22 TAL 160.11 TAP 18.81 RCA 108.15 APO 148.84 V2 34.784
 RC 102.038 GL 31.58 GP -12.02 ZAL 60.32 ZAP 121.10 ETS 353.68 ZAE 144.42 ETE 197.20 ZAC 101.09 ETC 168.69 CLP-121.88

PLANETOCENTRIC CONIC

C3 14.482 VHL 3.806 DLA 41.57 RAL 16.61 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.175 OPA -12.31 RAP 10.00 ECC 1.2383
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.19 21 4 15 4113.60 -30.63 182.97 244.74 60.40 22 12 48 3513.6 -34.32 174.96
 121.81 4 7 37 2810.55 -30.62 83.26 244.73 60.39 4 54 27 2210.5 -34.30 75.26
 58.19 21 4 15 4113.60 -30.63 182.97 244.74 60.40 22 12 48 3513.6 -34.32 174.96
 121.81 4 7 37 2810.55 -30.62 83.26 244.73 60.39 4 54 27 2210.5 -34.30 75.26
 58.19 21 4 15 4113.60 -30.63 182.97 244.74 60.40 22 12 48 3513.6 -34.32 174.96
 121.81 4 7 37 2810.55 -30.62 83.26 244.73 60.39 4 54 27 2210.5 -34.30 75.26

DIFFERENTIAL CORRECTIONS

TOE 1.8896 TRA .9547 TC3-2.6607 BAU .5194
 RDE .5128 RRA .2257 RC3 -.3417 FAU .15365
 FDE 6.9763 FRA 5.0097 FC3-9.1852 BSP 12266
 BOE 1.9580 BRA .9810 BC3 2.6825 FSP -4822

MID-COURSE EXECUTION ACCURACY

SGT 3985.7 SGR 932.8 SG3 1395.4
 RRT .9672 RRF .9630 RTF .9850
 SGB 4093.4 R23 .0276 R13 .9855
 SG1 4086.9 SG2 231.0 THA 12.80

ORBIT DETERMINATION ACCURACY

ST 2903.4 SR 784.0 SS 2999.0
 CRT .9996 CRS -.9944 CST -.9968
 LSA 4243.5 MSA 175.5 SSA 8.5
 EL1 3007.3 EL2 20.8 ALF 15.11

LAUNCH DATE DEC 19 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 495.432

RL 147.19 LAL .00 LOL 87.16 VL 27.748 GAL 3.75 AZL 85.96 HCA 221.87 SMA 128.43 ECC .15977 INC 4.0416 V1 30.269
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.456 GAP 2.91 AZP 93.01 TAL 159.58 TAP 21.44 RCA 107.91 APO 148.95 V2 34.783
 RC 104.441 GL 30.70 GP -10.85 ZAL 59.39 ZAP 125.12 ETS 353.26 ZAE 142.20 ETE 193.96 ZAC 100.06 ETC 168.29 CLP-125.86

PLANETOCENTRIC CONIC

C3 14.615 VHL 3.823 DLA 41.07 RAL 17.93 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 3.291 OPA -11.58 RAP 8.75 ECC 1.2405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.91 21 12 35 4107.04 -30.23 182.14 245.97 60.76 22 21 2 3507.0 -33.88 174.15
 121.09 4 9 45 2821.14 -30.22 83.92 245.97 60.74 4 56 46 2221.1 -33.86 75.92
 58.91 21 12 35 4107.04 -30.23 182.14 245.97 60.76 22 21 2 3507.0 -33.88 174.15
 121.09 4 9 45 2821.14 -30.22 83.92 245.97 60.74 4 56 46 2221.1 -33.86 75.92
 58.91 21 12 35 4107.04 -30.23 182.14 245.97 60.76 22 21 2 3507.0 -33.88 174.15
 121.09 4 9 45 2821.14 -30.22 83.92 245.97 60.74 4 56 46 2221.1 -33.86 75.92

DIFFERENTIAL CORRECTIONS

TOE 1.9956 TRA 1.0954 TC3-2.8392 BAU .5571
 RDE .4663 RRA .1963 RC3 -.2639 FAU .14307
 FDE 6.3864 FRA 4.8586 FC3-8.4751 BSP 13252
 BOE 2.0493 BRA 1.1128 BC3 2.8514 FSP -4531

MID-COURSE EXECUTION ACCURACY

SGT 4289.5 SGR 825.5 SG3 1301.5
 RRT .9540 RRF .9462 RTF .9863
 SGB 4368.2 R23 .0076 R13 .9864
 SG1 4361.4 SG2 243.4 THA 10.44

ORBIT DETERMINATION ACCURACY

ST 3062.1 SR 708.6 SS 2843.8
 CRT .9987 CRS -.9918 CST -.9969
 LSA 4234.9 MSA 174.9 SSA 9.1
 EL1 3142.8 EL2 35.0 ALF 13.02

LAUNCH DATE DEC 19 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 501.568

RL 147.19 LAL .00 LOL 87.16 VL 27.737 GAL 3.90 AZL 86.03 MCA 225.03 SMA 128.35 ECC .16141 INC 3.9676 V1 30.269
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.448 GAP 3.28 AZP 92.81 TAL 159.00 TAP 24.03 RCA 107.63 APO 149.07 V2 34.783
 RC 106.844 GL 29.83 GP -9.83 ZAL 58.42 ZAP 128.85 ETS 352.95 ZAE 140.10 ETE 191.43 ZAC 99.33 ETC 168.01 CLP-129.55

PLANETOCENTRIC CONIC

C3 14.815 VML 3.849 DLA 40.61 RAL 19.27 RAD 6567.6 VEL 11.670 PTH 2.05 VHP 3.420 DPA -10.88 RAP 7.84 ECC 1.2438
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.59 21 20 55 4101.74 -29.82 181.42 247.32 61.05 22 29 17 3501.7 -33.43 173.45
 120.41 4 12 6 2832.50 -29.81 84.63 247.32 61.04 4 59 19 2232.5 -33.42 76.65
 59.59 21 20 55 4101.74 -29.82 181.42 247.32 61.05 22 29 17 3501.7 -33.43 173.45
 120.41 4 12 6 2832.50 -29.81 84.63 247.32 61.04 4 59 19 2232.5 -33.42 76.65
 59.59 21 20 55 4101.74 -29.82 181.42 247.32 61.05 22 29 17 3501.7 -33.43 173.45
 120.41 4 12 6 2832.50 -29.81 84.63 247.32 61.04 4 59 19 2232.5 -33.42 76.65

DIFFERENTIAL CORRECTIONS

TOE 2.0897 TRA 1.2374 TC3-2.9842 BAU .5923
 RDE .4302 RRA .1705 RC3 -.1960 FAU .13220
 FDE 5.8347 FRA 4.6962 FC3-7.7255 BSP 14174
 BOE 2.1335 BRA 1.2491 BC3 2.9906 FSP -4230

MID-COURSE EXECUTION ACCURACY

SGT 4565.1 SGR 738.0 SG3 1208.3
 RRT .9349 RRF .9241 RTF .9871
 SGB 4624.4 R23 -.0049 R13 .9871
 SG1 4617.1 SG2 259.0 THA 8.62

ORBIT DETERMINATION ACCURACY

ST 3195.4 SR 648.3 SS 2693.8
 CRT .9971 CRS -.9883 CST -.9970
 LSA 4225.7 MSA 174.7 SSA 9.7
 EL1 3260.1 EL2 48.2 ALF 11.44

LAUNCH DATE DEC 19 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 507.683

RL 147.19 LAL .00 LOL 87.16 VL 27.725 GAL 4.05 AZL 86.10 MCA 228.19 SMA 128.27 ECC .16324 INC 3.9014 V1 30.269
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.439 GAP 3.65 AZP 92.60 TAL 158.39 TAP 26.57 RCA 107.33 APO 149.21 V2 34.784
 RC 109.246 GL 28.98 GP -8.94 ZAL 57.42 ZAP 132.31 ETS 352.72 ZAE 138.15 ETE 189.43 ZAC 98.88 ETC 167.82 CLP-132.96

PLANETOCENTRIC CONIC

C3 15.082 VML 3.884 DLA 40.16 RAL 20.64 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 3.563 DPA -10.17 RAP 7.23 ECC 1.2482
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.24 21 29 22 4097.41 -29.39 180.78 248.78 61.30 22 37 39 3497.4 -32.97 172.83
 119.76 4 14 37 2844.81 -29.38 85.40 248.77 61.29 5 2 2 2244.8 -32.96 77.45
 60.24 21 29 22 4097.41 -29.39 180.78 248.78 61.30 22 37 39 3497.4 -32.97 172.83
 119.76 4 14 37 2844.81 -29.38 85.40 248.77 61.29 5 2 2 2244.8 -32.96 77.45
 60.24 21 29 22 4097.41 -29.39 180.78 248.78 61.30 22 37 39 3497.4 -32.97 172.83
 119.76 4 14 37 2844.81 -29.38 85.40 248.77 61.29 5 2 2 2244.8 -32.96 77.45

DIFFERENTIAL CORRECTIONS

TOE 2.1747 TRA 1.3833 TC3-3.0923 BAU .6241
 RDE .4031 RRA .1482 RC3 -.1374 FAU .12118
 FDE 5.3296 FRA 4.5342 FC3-6.9560 BSP 14988
 BOE 2.2117 BRA 1.3912 BC3 3.0954 FSP -3919

MID-COURSE EXECUTION ACCURACY

SGT 4816.0 SGR 668.4 SG3 1118.7
 RRT .9095 RRF .8962 RTF .9876
 SGB 4862.2 R23 -.0121 R13 .9875
 SG1 4854.4 SG2 275.6 THA 7.22

ORBIT DETERMINATION ACCURACY

ST 3307.7 SR 600.8 SS 2552.2
 CRT .9947 CRS -.9839 CST -.9970
 LSA 4217.2 MSA 174.8 SSA 10.2
 EL1 3361.3 EL2 60.6 ALF 10.25

LAUNCH DATE DEC 19 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 513.777

RL 147.19 LAL .00 LOL 87.16 VL 27.712 GAL 4.23 AZL 86.16 MCA 231.35 SMA 128.18 ECC .16527 INC 3.8413 V1 30.269
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.431 GAP 4.02 AZP 92.40 TAL 157.73 TAP 29.08 RCA 106.99 APO 149.36 V2 34.785
 RC 111.645 GL 28.14 GP -8.17 ZAL 56.38 ZAP 135.52 ETS 352.55 ZAE 136.36 ETE 187.85 ZAC 98.71 ETC 167.71 CLP-136.12

PLANETOCENTRIC CONIC

C3 15.415 VML 3.926 DLA 39.73 RAL 22.04 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 3.716 DPA -9.47 RAP 6.91 ECC 1.2537
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.88 21 37 54 4094.02 -28.95 180.21 250.34 61.51 22 46 8 3494.0 -32.50 172.29
 119.12 4 17 16 2858.04 -28.93 86.24 250.33 61.49 5 4 54 2258.0 -32.49 78.32
 60.88 21 37 54 4094.02 -28.95 180.21 250.34 61.51 22 46 8 3494.0 -32.50 172.29
 119.12 4 17 16 2858.04 -28.93 86.24 250.33 61.49 5 4 54 2258.0 -32.49 78.32
 60.88 21 37 54 4094.02 -28.95 180.21 250.34 61.51 22 46 8 3494.0 -32.50 172.29
 119.12 4 17 16 2858.04 -28.93 86.24 250.33 61.49 5 4 54 2258.0 -32.49 78.32

DIFFERENTIAL CORRECTIONS

TOE 2.2482 TRA 1.5305 TC3-3.1736 BAU .6543
 RDE .3827 RRA .1286 RC3 -.0892 FAU .11093
 FDE 4.8602 FRA 4.3673 FC3-6.2300 BSP 15774
 BOE 2.2805 BRA 1.5359 BC3 3.1749 FSP -3636

MID-COURSE EXECUTION ACCURACY

SGT 5040.6 SGR 613.5 SG3 1032.9
 RRT .8781 RRF .8625 RTF .9879
 SGB 5077.8 R23 -.0164 R13 .9878
 SG1 5069.4 SG2 291.9 THA 6.12

ORBIT DETERMINATION ACCURACY

ST 3395.3 SR 563.3 SS 2413.6
 CRT .9915 CRS -.9786 CST -.9970
 LSA 4200.0 MSA 175.3 SSA 10.8
 EL1 3441.0 EL2 72.4 ALF 9.35

LAUNCH DATE DEC 19 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 519.849

RL 147.19 LAL .00 LOL 87.16 VL 27.698 GAL 4.42 AZL 86.21 MCA 234.51 SMA 128.08 ECC .16751 INC 3.7864 V1 30.269
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.422 GAP 4.39 AZP 92.20 TAL 157.04 TAP 31.55 RCA 106.62 APO 149.53 V2 34.787
 RC 114.042 GL 27.29 GP -7.49 ZAL 55.30 ZAP 138.48 ETS 352.42 ZAE 134.73 ETE 186.58 ZAC 98.78 ETC 167.64 CLP-139.05

PLANETOCENTRIC CONIC

C3 15.818 VML 3.977 DLA 39.31 RAL 23.47 RAD 6567.6 VEL 11.713 PTH 2.06 VHP 3.880 DPA -8.76 RAP 6.83 ECC 1.2603
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.52 21 46 34 4091.43 -28.47 179.71 252.00 61.67 22 54 46 3491.4 -32.02 171.82
 118.48 4 20 2 2872.26 -28.46 87.15 251.99 61.66 5 7 54 2272.3 -32.01 79.26
 61.52 21 46 34 4091.43 -28.47 179.71 252.00 61.67 22 54 46 3491.4 -32.02 171.82
 118.48 4 20 2 2872.26 -28.46 87.15 251.99 61.66 5 7 54 2272.3 -32.01 79.26
 61.52 21 46 34 4091.43 -28.47 179.71 252.00 61.67 22 54 46 3491.4 -32.02 171.82
 118.48 4 20 2 2872.26 -28.46 87.15 251.99 61.66 5 7 54 2272.3 -32.01 79.26

DIFFERENTIAL CORRECTIONS

TOE 2.3132 TRA 1.6810 TC3-3.2272 BAU .6825
 RDE .3685 RRA .1117 RC3 -.0498 FAU .10134
 FDE 4.4334 FRA 4.2047 FC3-5.5467 BSP 16506
 BOE 2.3424 BRA 1.6848 BC3 3.2276 FSP -3369

MID-COURSE EXECUTION ACCURACY

SGT 5243.2 SGR 571.5 SG3 952.5
 RRT .8416 RRF .8243 RTF .9880
 SGB 5274.2 R23 -.0186 R13 .9879
 SG1 5265.2 SG2 307.4 THA 5.26

ORBIT DETERMINATION ACCURACY

ST 3463.1 SR 534.5 SS 2281.9
 CRT .9874 CRS -.9723 CST -.9970
 LSA 4177.9 MSA 176.2 SSA 11.3
 EL1 3503.1 EL2 83.6 ALF 8.67

LAUNCH DATE DEC 19 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 525.898

RL 147.19 LAL .00 LOL 87.16 VL 27.682 GAL 4.62 AZL 86.26 HCA 237.67 SMA 127.97 ECC .16997 INC 3.7356 V1 30.269
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.413 GAP 4.76 AZP 92.00 TAL 156.32 TAP 33.99 RCA 106.22 APO 149.72 V2 34.790
 RC 116.435 GL 26.45 GP -6.90 ZAL 54.19 ZAP 141.24 ETS 352.31 ZAE 133.25 ETE 185.55 ZAC 99.07 ETC 167.61 CLP-141.77

PLANETOCENTRIC CONIC

C3 16.292 VHL 4.036 DLA 38.89 RAL 24.94 RAD 6567.7 VEL 11.734 PTH 2.07 VHP 4.054 DPA -8.04 RAP 6.99 ECC 1.2681
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.15 21 55 27 4089.45 -27.98 179.24 253.74 61.82 23 3 36 3489.5 -31.51 171.39
 117.85 4 22 48 2887.67 -27.97 88.13 253.74 61.80 5 10 56 2287.7 -31.50 80.28
 62.15 21 55 27 4089.45 -27.98 179.24 253.74 61.82 23 3 36 3489.5 -31.51 171.39
 117.85 4 22 48 2887.67 -27.97 88.13 253.74 61.80 5 10 56 2287.7 -31.50 80.28
 62.15 21 55 27 4089.45 -27.98 179.24 253.74 61.82 23 3 36 3489.5 -31.51 171.39
 117.85 4 22 48 2887.67 -27.97 88.13 253.74 61.80 5 10 56 2287.7 -31.50 80.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.3709 TRA 1.8366 TC3-3.2523 BAU .7084 SGT 5425.7 SGR 540.4 SG3 878.0 ST 3513.3 SR 512.8 SS 2157.5
 RDE .3593 RRA .0975 RC3 -.0181 FAU .09231 RRT .8017 RRF .7834 RTF .9880 CRT .9825 CRS -.9652 CST -.9970
 FOE 4.0473 FRA 4.0512 FC3-4.9053 BSP 17182 SGB 5452.6 R23 -.0193 R13 .9880 LSA 4150.8 MSA 177.6 SSA 11.7
 BOE 2.3980 BRA 1.8392 BC3 3.2524 FSP -3121 SGI 5443.1 SG2 321.9 THA 4.58 EL1 3549.2 EL2 94.4 ALF 8.17

LAUNCH DATE DEC 19 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 531.924

RL 147.19 LAL .00 LOL 87.16 VL 27.666 GAL 4.84 AZL 86.31 HCA 240.83 SMA 127.86 ECC .17265 INC 3.6882 V1 30.269
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.405 GAP 5.14 AZP 91.80 TAL 155.57 TAP 36.40 RCA 105.79 APO 149.94 V2 34.794
 RC 118.823 GL 25.60 GP -6.38 ZAL 53.05 ZAP 143.81 ETS 352.23 ZAE 131.92 ETE 184.71 ZAC 99.56 ETC 167.61 CLP-144.30

PLANETOCENTRIC CONIC

C3 16.842 VHL 4.104 DLA 38.47 RAL 26.42 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 4.238 DPA -7.31 RAP 7.34 ECC 1.2772
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.80 22 4 29 4088.09 -27.46 178.81 255.58 61.93 23 12 37 3488.1 -30.98 171.00
 117.20 4 25 37 2904.25 -27.45 89.20 255.57 61.92 5 14 1 2304.3 -30.97 81.38
 62.80 22 4 29 4088.09 -27.46 178.81 255.58 61.93 23 12 37 3488.1 -30.98 171.00
 117.20 4 25 37 2904.25 -27.45 89.20 255.57 61.92 5 14 1 2304.3 -30.97 81.38
 62.80 22 4 29 4088.09 -27.46 178.81 255.58 61.93 23 12 37 3488.1 -30.98 171.00
 117.20 4 25 37 2904.25 -27.45 89.20 255.57 61.92 5 14 1 2304.3 -30.97 81.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.4261 TRA 2.0016 TC3-3.2439 BAU .7304 SGT 5594.6 SGR 518.5 SG3 810.2 ST 3553.2 SR 497.4 SS 2044.3
 RDE .3547 RRA .0859 RC3 .0077 FAU .08357 RRT .7611 RRF .7426 RTF .9879 CRT .9770 CRS -.9575 CST -.9969
 FOE 3.7067 FRA 3.9143 FC3-4.2957 BSP 17713 SGB 5618.6 R23 -.0185 R13 .9878 LSA 4125.5 MSA 179.6 SSA 12.1
 BOE 2.4519 BRA 2.0034 BC3 3.2439 FSP -2871 SGI 5608.6 SG2 335.5 THA 4.05 EL1 3586.3 EL2 105.0 ALF 7.79

LAUNCH DATE DEC 19 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 537.925

RL 147.19 LAL .00 LOL 87.16 VL 27.649 GAL 5.08 AZL 86.36 HCA 244.00 SMA 127.75 ECC .17558 INC 3.6437 V1 30.269
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.396 GAP 5.52 AZP 91.60 TAL 154.78 TAP 38.78 RCA 105.32 APO 150.17 V2 34.798
 RC 121.206 GL 24.75 GP -5.92 ZAL 51.88 ZAP 146.20 ETS 352.15 ZAE 130.72 ETE 184.02 ZAC 100.22 ETC 167.63 CLP-146.66

PLANETOCENTRIC CONIC

C3 17.475 VHL 4.180 DLA 38.05 RAL 27.92 RAD 6567.7 VEL 11.784 PTH 2.08 VHP 4.430 DPA -6.56 RAP 7.88 ECC 1.2876
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.45 22 13 43 4087.25 -26.92 178.42 257.49 62.03 23 21 50 3487.2 -30.43 170.64
 116.55 4 28 22 2922.12 -26.90 90.34 257.49 62.02 5 17 4 2322.1 -30.42 82.57
 63.45 22 13 43 4087.25 -26.92 178.42 257.49 62.03 23 21 50 3487.2 -30.43 170.64
 116.55 4 28 22 2922.12 -26.90 90.34 257.49 62.02 5 17 4 2322.1 -30.42 82.57
 63.45 22 13 43 4087.25 -26.92 178.42 257.49 62.03 23 21 50 3487.2 -30.43 170.64
 116.55 4 28 22 2922.12 -26.90 90.34 257.49 62.02 5 17 4 2322.1 -30.42 82.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.4722 TRA 2.1701 TC3-3.2202 BAU .7523 SGT 5744.0 SGR 502.8 SG3 747.3 ST 3573.7 SR 486.1 SS 1934.1
 RDE .3535 RRA .0763 RC3 .0266 FAU .07588 RRT .7213 RRF .7029 RTF .9877 CRT .9709 CRS -.9492 CST -.9969
 FOE 3.3930 FRA 3.7812 FC3-3.7590 BSP 18282 SGB 5766.0 R23 -.0175 R13 .9877 LSA 4088.4 MSA 182.1 SSA 12.5
 BOE 2.4973 BRA 2.1714 BC3 3.2203 FSP -2659 SGI 5755.5 SG2 347.6 THA 3.63 EL1 3604.8 EL2 115.4 ALF 7.53

LAUNCH DATE DEC 19 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 543.901

RL 147.19 LAL .00 LOL 87.16 VL 27.631 GAL 5.34 AZL 86.40 HCA 247.16 SMA 127.62 ECC .17875 INC 3.6015 V1 30.269
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.387 GAP 5.92 AZP 91.40 TAL 153.97 TAP 41.13 RCA 104.81 APO 150.44 V2 34.803
 RC 123.581 GL 23.90 GP -5.52 ZAL 50.69 ZAP 148.44 ETS 352.07 ZAE 129.64 ETE 183.45 ZAC 101.05 ETC 167.66 CLP-148.88

PLANETOCENTRIC CONIC

C3 18.197 VHL 4.266 DLA 37.62 RAL 29.44 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.632 DPA -5.80 RAP 8.57 ECC 1.2995
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.13 22 23 9 4086.87 -26.34 178.05 259.48 62.11 23 31 15 3486.9 -29.85 170.31
 115.87 4 31 4 2941.34 -26.33 91.58 259.48 62.10 5 20 5 2341.3 -29.84 83.85
 64.13 22 23 9 4086.87 -26.34 178.05 259.48 62.11 23 31 15 3486.9 -29.85 170.31
 115.87 4 31 4 2941.34 -26.33 91.58 259.48 62.10 5 20 5 2341.3 -29.84 83.85
 64.13 22 23 9 4086.87 -26.34 178.05 259.48 62.11 23 31 15 3486.9 -29.85 170.31
 115.87 4 31 4 2941.34 -26.33 91.58 259.48 62.10 5 20 5 2341.3 -29.84 83.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.5136 TRA 2.3461 TC3-3.1745 BAU .7723 SGT 5878.8 SGR 492.4 SG3 689.7 ST 3581.9 SR 478.5 SS 1830.8
 RDE .3553 RRA .0687 RC3 .0404 FAU .06879 RRT .6844 RRF .6666 RTF .9875 CRT .9644 CRS -.9406 CST -.9969
 FOE 3.1109 FRA 3.6577 FC3-3.2728 BSP 18800 SGB 5899.4 R23 -.0162 R13 .9875 LSA 4046.7 MSA 185.1 SSA 12.7
 BOE 2.5386 BRA 2.3471 BC3 3.1748 FSP -2464 SGI 5888.5 SG2 358.4 THA 3.29 EL1 3611.5 EL2 125.6 ALF 7.35

LAUNCH DATE DEC 19 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 549.849

RL 147.19 LAL .00 LOL 87.16 VL 27.613 GAL 5.62 AZL 86.44 MCA 250.32 SMA 127.50 ECC .18218 INC 3.5612 V1 30.269
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.379 GAP 6.31 AZP 91.20 TAL 153.13 TAP 43.45 RCA 104.27 APO 150.73 V2 34.808
 RC 125.948 GL 23.04 GP -5.16 ZAL 49.48 ZAP 150.54 ETS 351.98 ZAE 128.66 ETE 182.98 ZAC 102.01 ETC 167.70 CLP-150.96

PLANETOCENTRIC CONIC

C3 19.016 VHL 4.361 DLA 37.19 RAL 30.97 RAD 6567.8 VEL 11.849 PTH 2.10 VHP 4.843 DPA -5.03 RAP 9.41 ECC 1.3130
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.82 22 32 48 4086.80 -25.74 177.68 261.54 62.18 23 40 55 3486.8 -29.24 169.99
 115.18 4 33 36 2962.11 -25.72 92.92 261.53 62.16 5 22 58 2362.1 -29.23 85.23
 64.82 22 32 48 4086.80 -25.74 177.68 261.54 62.18 23 40 55 3486.8 -29.24 169.99
 115.18 4 33 36 2962.11 -25.72 92.92 261.53 62.16 5 22 58 2362.1 -29.23 85.23
 64.82 22 32 48 4086.80 -25.74 177.68 261.54 62.18 23 40 55 3486.8 -29.24 169.99
 115.18 4 33 36 2962.11 -25.72 92.92 261.53 62.16 5 22 58 2362.1 -29.23 85.23

DIFFERENTIAL CORRECTIONS

TOE 2.5510 TRA 2.5312 TC3-3.1083 BAU .7903
 RDE .3597 RRA .0631 RC3 .0500 FAU .06225
 FDE 2.8578 FRA 3.5455 FC3-2.8340 BSP 19271
 BDE 2.5763 BRA 2.5320 BC3 3.1087 FSP -2283

MID-COURSE EXECUTION ACCURACY

SGT 6000.9 SGR 485.9 SG3 637.3
 RRT .6518 RRF .6350 RTF .9873
 SGB 6020.5 R23 -.0144 R13 .9872
 SG1 6009.2 SG2 368.0 THA 3.03

ORBIT DETERMINATION ACCURACY

ST 3579.0 SR 473.7 SS 1734.4
 CRT .9075 CRS -.9317 CST -.9968
 LSA 4000.8 MSA 188.6 SSA 12.9
 EL1 3607.7 EL2 135.6 ALF 7.23

LAUNCH DATE DEC 19 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 555.769

RL 147.19 LAL .00 LOL 87.16 VL 27.593 GAL 5.91 AZL 86.48 MCA 253.49 SMA 127.37 ECC .18590 INC 3.5224 V1 30.269
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.370 GAP 6.72 AZP 91.00 TAL 152.27 TAP 45.76 RCA 103.69 APO 151.05 V2 34.815
 RC 128.306 GL 22.19 GP -4.84 ZAL 48.26 ZAP 152.52 ETS 351.87 ZAE 127.79 ETE 182.59 ZAC 103.10 ETC 167.74 CLP-152.92

PLANETOCENTRIC CONIC

C3 19.944 VHL 4.466 DLA 36.75 RAL 32.50 RAD 6567.8 VEL 11.888 PTH 2.11 VHP 5.063 DPA -4.24 RAP 10.37 ECC 1.3282
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.53 22 42 40 4087.06 -25.10 177.33 263.67 62.23 23 50 47 3487.1 -28.61 169.69
 114.47 4 35 58 2984.40 -25.09 94.35 263.66 62.22 5 25 43 2384.4 -28.59 86.71
 65.53 22 42 40 4087.06 -25.10 177.33 263.67 62.23 23 50 47 3487.1 -28.61 169.69
 114.47 4 35 58 2984.40 -25.09 94.35 263.66 62.22 5 25 43 2384.4 -28.59 86.71
 65.53 22 42 40 4087.06 -25.10 177.33 263.67 62.23 23 50 47 3487.1 -28.61 169.69
 114.47 4 35 58 2984.40 -25.09 94.35 263.66 62.22 5 25 43 2384.4 -28.59 86.71

DIFFERENTIAL CORRECTIONS

TOE 2.5885 TRA 2.7294 TC3-3.0176 BAU .8047
 RDE .3666 RRA .0596 RC3 .0565 FAU .05597
 FDE 2.6349 FRA 3.4482 FC3-2.4297 BSP 19625
 BDE 2.6143 BRA 2.7300 BC3 3.0182 FSP -2107

MID-COURSE EXECUTION ACCURACY

SGT 6114.9 SGR 482.6 SG3 589.9
 RRT .6246 RRF .6093 RTF .9869
 SGB 6133.9 R23 -.0122 R13 .9868
 SG1 6122.3 SG2 376.4 THA 2.83

ORBIT DETERMINATION ACCURACY

ST 3571.3 SR 471.2 SS 1647.0
 CRT .9504 CRS -.9229 CST -.9968
 LSA 3956.2 MSA 192.5 SSA 13.1
 EL1 3599.3 EL2 145.4 ALF 7.16

LAUNCH DATE DEC 19 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 561.657

RL 147.19 LAL .00 LOL 87.16 VL 27.574 GAL 6.23 AZL 86.52 MCA 256.66 SMA 127.24 ECC .18992 INC 3.4849 V1 30.269
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.362 GAP 7.14 AZP 90.80 TAL 151.38 TAP 48.04 RCA 103.07 APO 151.40 V2 34.821
 RC 130.653 GL 21.33 GP -4.56 ZAL 47.03 ZAP 154.40 ETS 351.74 ZAE 126.99 ETE 182.26 ZAC 104.31 ETC 167.78 CLP-154.78

PLANETOCENTRIC CONIC

C3 20.992 VHL 4.582 DLA 36.30 RAL 34.04 RAD 6567.9 VEL 11.932 PTH 2.12 VHP 5.294 DPA -3.44 RAP 11.44 ECC 1.3455
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.27 22 52 45 4087.54 -24.43 176.99 265.85 62.28 24 0 53 3487.5 -27.94 169.39
 113.73 4 38 7 3008.40 -24.42 95.90 265.84 62.26 5 28 15 2408.4 -27.93 88.30
 66.27 22 52 45 4087.54 -24.43 176.99 265.85 62.28 24 0 53 3487.5 -27.94 169.39
 113.73 4 38 7 3008.40 -24.42 95.90 265.84 62.26 5 28 15 2408.4 -27.93 88.30
 66.27 22 52 45 4087.54 -24.43 176.99 265.85 62.28 24 0 53 3487.5 -27.94 169.39
 113.73 4 38 7 3008.40 -24.42 95.90 265.84 62.26 5 28 15 2408.4 -27.93 88.30

DIFFERENTIAL CORRECTIONS

TOE 2.6192 TRA 2.9345 TC3-2.9190 BAU .8194
 RDE .3752 RRA .0577 RC3 .0594 FAU .05049
 FDE 2.4294 FRA 3.3551 FC3-2.0822 BSP 20027
 BDE 2.6459 BRA 2.9350 BC3 2.9196 FSP -1956

MID-COURSE EXECUTION ACCURACY

SGT 6214.1 SGR 480.7 SG3 546.3
 RRT .6021 RRF .5881 RTF .9865
 SGB 6232.7 R23 -.0102 R13 .9865
 SG1 6220.9 SG2 383.4 THA 2.68

ORBIT DETERMINATION ACCURACY

ST 3549.7 SR 469.9 SS 1562.7
 CRT .9431 CRS -.9138 CST -.9968
 LSA 3901.8 MSA 196.9 SSA 13.2
 EL1 3577.3 EL2 155.0 ALF 7.13

LAUNCH DATE DEC 19 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 567.512

RL 147.19 LAL .00 LOL 87.16 VL 27.553 GAL 6.57 AZL 86.55 MCA 259.83 SMA 127.10 ECC .19427 INC 3.4483 V1 30.269
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.354 GAP 7.58 AZP 90.61 TAL 150.48 TAP 50.31 RCA 102.41 APO 151.79 V2 34.829
 RC 132.989 GL 20.47 GP -4.30 ZAL 45.78 ZAP 156.17 ETS 351.58 ZAE 126.28 ETE 181.99 ZAC 105.61 ETC 167.81 CLP-156.54

PLANETOCENTRIC CONIC

C3 22.173 VHL 4.709 DLA 35.84 RAL 35.57 RAD 6567.9 VEL 11.981 PTH 2.14 VHP 5.535 DPA -2.63 RAP 12.61 ECC 1.3649
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.05 23 3 4 4088.21 -23.74 176.64 268.09 62.32 24 11 12 3488.2 -27.24 169.09
 112.95 4 40 0 3034.14 -23.72 97.55 268.08 62.30 5 30 34 2434.1 -27.23 90.01
 67.05 23 3 4 4088.21 -23.74 176.64 268.09 62.32 24 11 12 3488.2 -27.24 169.09
 112.95 4 40 0 3034.14 -23.72 97.55 268.08 62.30 5 30 34 2434.1 -27.23 90.01
 67.05 23 3 4 4088.21 -23.74 176.64 268.09 62.32 24 11 12 3488.2 -27.24 169.09
 112.95 4 40 0 3034.14 -23.72 97.55 268.08 62.30 5 30 34 2434.1 -27.23 90.01

DIFFERENTIAL CORRECTIONS

TOE 2.6473 TRA 3.1508 TC3-2.8062 BAU .8321
 RDE .3853 RRA .0575 RC3 .0600 FAU .04543
 FDE 2.4442 FRA 3.2705 FC3-1.7737 BSP 20396
 BDE 2.6752 BRA 3.1514 BC3 2.8069 FSP -1818

MID-COURSE EXECUTION ACCURACY

SGT 6303.0 SGR 480.1 SG3 506.3
 RRT .5847 RRF .5722 RTF .9862
 SGB 6321.3 R23 -.0082 R13 .9861
 SG1 6309.3 SG2 389.1 THA 2.56

ORBIT DETERMINATION ACCURACY

ST 3520.7 SR 469.6 SS 1484.0
 CRT .9357 CRS -.9048 CST -.9968
 LSA 3844.1 MSA 201.5 SSA 13.3
 EL1 3548.1 EL2 164.4 ALF 7.13

LAUNCH DATE DEC 19 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 573.329

RL 147.19 LAL .00 LOL 87.16 VL 27.533 GAL 6.94 AZL 86.59 MCA 263.00 SMA 126.96 ECC .19897 INC 3.4125 V1 30.269
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.347 GAP 8.02 AZP 90.42 TAL 149.57 TAP 52.56 RCA 101.70 APO 152.22 V2 34.837
 RC 135.313 GL 19.61 GP -4.07 ZAL 44.54 ZAP 157.86 ETS 351.39 ZAE 125.63 ETE 181.77 ZAC 107.00 ETC 167.83 CLP-158.22

PLANETOCENTRIC CONIC

C3 23.506 VHL 4.848 DLA 35.38 RAL 37.08 RAD 6568.0 VEL 12.037 PTH 2.15 VHP 5.788 DPA -1.81 RAP 13.87 ECC 1.3868
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.85 23 13 35 4089.00 -23.00 176.28 270.38 62.35 24 21 44 3489.0 -26.52 168.78
 112.15 4 41 35 3061.74 -22.99 99.33 270.37 62.34 5 32 36 2461.7 -26.50 91.83
 67.85 23 13 35 4089.00 -23.00 176.28 270.38 62.35 24 21 44 3489.0 -26.52 168.78
 112.15 4 41 35 3061.74 -22.99 99.33 270.37 62.34 5 32 36 2461.7 -26.50 91.83
 67.85 23 13 35 4089.00 -23.00 176.28 270.38 62.35 24 21 44 3489.0 -26.52 168.78
 112.15 4 41 35 3061.74 -22.99 99.33 270.37 62.34 5 32 36 2461.7 -26.50 91.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.6734 TRA 3.3797 TC3-2.6818 BAU .8429 SGT 6382.7 SGR 480.2 SG3 469.9 ST 3485.3 SR 469.8 SS 1410.8
 ROE .3969 RRA .0591 RC3 .0587 FAU .04077 RRT .5721 RRF .5610 RTF .9858 CRT .9281 CRS -.8958 CST -.9968
 FOE 2.0773 FRA 3.1944 FC3-1.5017 BSP 20735 SGB 6400.8 R23 -.0062 R13 .9858 LSA 3783.6 MSA 206.3 SSA 13.3
 BOE 2.7027 BRA 3.3803 BC3 2.6824 FSP -1691 SG1 6388.7 SG2 393.5 THA 2.47 EL1 3512.5 EL2 173.6 ALF 7.15

LAUNCH DATE DEC 19 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 579.106

RL 147.19 LAL .00 LOL 87.16 VL 27.512 GAL 7.33 AZL 86.62 MCA 266.17 SMA 126.82 ECC .20404 INC 3.3771 V1 30.269
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.339 GAP 8.49 AZP 90.23 TAL 148.64 TAP 54.81 RCA 100.94 APO 152.70 V2 34.846
 RC 137.625 GL 18.75 GP -3.87 ZAL 43.30 ZAP 159.48 ETS 351.14 ZAE 125.04 ETE 181.58 ZAC 108.47 ETC 167.84 CLP-159.83

PLANETOCENTRIC CONIC

C3 25.008 VHL 5.001 DLA 34.90 RAL 38.59 RAD 6568.0 VEL 12.099 PTH 2.17 VHP 6.054 DPA -.98 RAP 15.21 ECC 1.4116
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.69 23 24 23 4089.76 -22.24 175.91 272.71 62.38 24 32 32 3489.8 -25.76 168.46
 111.31 4 42 47 3091.38 -22.23 101.25 272.71 62.37 5 34 18 2491.4 -25.75 93.79
 68.69 23 24 23 4089.76 -22.24 175.91 272.71 62.38 24 32 32 3489.8 -25.76 168.46
 111.31 4 42 47 3091.38 -22.23 101.25 272.71 62.37 5 34 18 2491.4 -25.75 93.79
 68.69 23 24 23 4089.76 -22.24 175.91 272.71 62.38 24 32 32 3489.8 -25.76 168.46
 111.31 4 42 47 3091.38 -22.23 101.25 272.71 62.37 5 34 18 2491.4 -25.75 93.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.6980 TRA 3.6224 TC3-2.5466 BAU .8516 SGT 6453.8 SGR 480.8 SG3 436.7 ST 3444.8 SR 470.2 SS 1343.0
 ROE .4097 RRA .0625 RC3 .0561 FAU .03646 RRT .5640 RRF .5542 RTF .9854 CRT .9204 CRS -.8869 CST -.9968
 FOE 1.9269 FRA 3.1265 FC3-1.2621 BSP 21040 SGB 6471.7 R23 -.0044 R13 .9854 LSA 3721.1 MSA 211.3 SSA 13.2
 BOE 2.7290 BRA 3.6229 BC3 2.5473 FSP -1575 SG1 6459.5 SG2 396.7 THA 2.41 EL1 3471.9 EL2 182.3 ALF 7.18

LAUNCH DATE DEC 19 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 584.839

RL 147.19 LAL .00 LOL 87.16 VL 27.490 GAL 7.75 AZL 86.66 MCA 269.34 SMA 126.68 ECC .20953 INC 3.3420 V1 30.269
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.332 GAP 8.97 AZP 90.04 TAL 147.71 TAP 57.05 RCA 100.13 APO 153.22 V2 34.855
 RC 139.923 GL 17.90 GP -3.69 ZAL 42.06 ZAP 161.03 ETS 350.84 ZAE 124.50 ETE 181.43 ZAC 110.00 ETC 167.84 CLP-161.37

PLANETOCENTRIC CONIC

C3 26.703 VHL 5.167 DLA 34.42 RAL 40.07 RAD 6568.1 VEL 12.169 PTH 2.18 VHP 6.333 DPA -.14 RAP 16.62 ECC 1.4395
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.57 23 35 25 4090.46 -21.45 175.52 275.09 62.42 24 43 36 3490.5 -24.97 168.12
 110.43 4 43 34 3123.11 -21.44 103.29 275.09 62.41 5 35 37 2523.1 -24.96 95.89
 69.57 23 35 25 4090.46 -21.45 175.52 275.09 62.42 24 43 36 3490.5 -24.97 168.12
 110.43 4 43 34 3123.11 -21.44 103.29 275.09 62.41 5 35 37 2523.1 -24.96 95.89
 69.57 23 35 25 4090.46 -21.45 175.52 275.09 62.42 24 43 36 3490.5 -24.97 168.12
 110.43 4 43 34 3123.11 -21.44 103.29 275.09 62.41 5 35 37 2523.1 -24.96 95.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.7252 TRA 3.8837 TC3-2.3979 BAU .8562 SGT 6520.7 SGR 481.6 SG3 406.6 ST 3404.1 SR 470.6 SS 1282.3
 ROE .4237 RRA .0677 RC3 .0527 FAU .03250 RRT .5603 RRF .5520 RTF .9850 CRT .9128 CRS -.8782 CST -.9969
 FOE 1.7945 FRA 3.0692 FC3-1.0471 BSP 21226 SGB 6538.5 R23 -.0023 R13 .9850 LSA 3661.5 MSA 216.2 SSA 13.1
 BOE 2.7579 BRA 3.8843 BC3 2.3984 FSP -1460 SG1 6526.3 SG2 398.6 THA 2.38 EL1 3431.2 EL2 190.7 ALF 7.21

LAUNCH DATE DEC 19 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 590.521

RL 147.19 LAL .00 LOL 87.16 VL 27.468 GAL 8.20 AZL 86.69 MCA 272.51 SMA 126.53 ECC .21548 INC 3.3068 V1 30.269
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.325 GAP 9.47 AZP 89.85 TAL 146.77 TAP 59.28 RCA 99.27 APO 153.80 V2 34.865
 RC 142.207 GL 17.05 GP -3.52 ZAL 40.83 ZAP 162.52 ETS 350.47 ZAE 124.00 ETE 181.30 ZAC 111.60 ETC 167.82 CLP-162.86

PLANETOCENTRIC CONIC

C3 28.618 VHL 5.350 DLA 33.92 RAL 41.53 RAD 6568.1 VEL 12.247 PTH 2.20 VHP 6.628 DPA .70 RAP 18.08 ECC 1.4710
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.49 23 46 46 4090.83 -20.63 175.09 277.51 62.45 24 54 57 3490.8 -24.15 167.74
 109.51 4 43 51 3157.23 -20.61 105.50 277.50 62.44 5 36 28 2557.2 -24.14 98.14
 70.49 23 46 46 4090.83 -20.63 175.09 277.51 62.45 24 54 57 3490.8 -24.15 167.74
 109.51 4 43 51 3157.23 -20.61 105.50 277.50 62.44 5 36 28 2557.2 -24.14 98.14
 110.00 5 18 43 3050.78 -23.73 98.87 279.18 64.64 6 9 34 2450.8 -26.94 91.18
 110.00 4 15 0 3245.27 -17.58 110.60 275.74 60.20 5 9 6 2645.3 -21.40 103.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7477 TRA 4.1565 TC3-2.2495 BAU .8608 SGT 6575.4 SGR 482.0 SG3 378.7 ST 3355.0 SR 470.4 SS 1224.1
 ROE .4384 RRA .0745 RC3 .0483 FAU .02864 RRT .5595 RRF .5524 RTF .9847 CRT .9049 CRS -.8694 CST -.9970
 FOE 1.6716 FRA 3.0151 FC3 -.8665 BSP 21495 SGB 6593.1 R23 -.0007 R13 .9847 LSA 3595.4 MSA 221.1 SSA 13.0
 BOE 2.7824 BRA 4.1572 BC3 2.2500 FSP -1362 SG1 6581.0 SG2 399.2 THA 2.36 EL1 3382.0 EL2 198.7 ALF 7.26

LAUNCH DATE DEC 19 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 596.147

RL 147.19 LAL .00 LOL 87.16 VL 27.446 GAL 8.68 AZL 86.73 MCA 275.69 SMA 126.39 ECC .22192 INC 3.2715 V1 30.269
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.318 GAP 10.00 AZP 89.68 TAL 145.83 TAP 61.52 RCA 98.34 APO 154.44 V2 34.875
 RC 144.478 GL 16.20 GP -3.37 ZAL 39.62 ZAP 163.95 ETS 350.01 ZAE 123.54 ETE 181.20 ZAC 113.24 ETC 167.77 CLP-164.30

PLANETOCENTRIC CONIC

C3 30.784 VHL 5.548 OLA 33.42 RAL 42.96 RAD 6568.2 VEL 12.335 PTH 2.22 VHP 6.939 DPA 1.54 RAP 19.61 ECC 1.5066
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.46 0 2 22 4090.84 -19.78 174.62 279.96 62.49 1 10 33 3490.8 -23.30 167.31
 108.54 4 43 35 3193.78 -19.76 107.86 279.95 62.48 5 36 49 2593.8 -23.29 100.56
 71.46 0 2 22 4090.84 -19.78 174.62 279.96 62.49 1 10 33 3490.8 -23.30 167.31
 108.54 4 43 35 3193.78 -19.76 107.86 279.95 62.48 5 36 49 2593.8 -23.29 100.56
 110.00 5 47 4 2999.29 -25.19 95.59 282.78 66.09 6 37 3 2399.3 -28.20 87.71
 110.00 3 58 4 3333.32 -14.53 115.60 276.87 58.71 4 53 37 2733.3 -18.56 108.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7699 TRA 4.4472 TC3-2.0960 BAU .8628 SGT 6623.3 SGR 482.2 SG3 353.1 ST 3303.3 SR 469.6 SS 1170.5
 RDE .4537 RRA .0832 RC3 .0436 FAU .02523 RRT .5617 RRF .5556 RTF .9844 CRT .8968 CRS -.8607 CST -.9971
 FDE 1.5605 FRA 2.9680 FC3 -.7097 BSP 21729 SGB 6640.8 R23 .0007 R13 .9844 LSA 3528.6 MSA 225.8 SSA 12.9
 BOE 2.8068 BRA 4.4479 BC3 2.0965 FSP -1272 SGI 6628.8 SG2 398.6 THA 2.35 EL1 3330.1 EL2 206.1 ALF 7.29

LAUNCH DATE DEC 19 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 601.708

RL 147.19 LAL .00 LOL 87.16 VL 27.424 GAL 9.20 AZL 86.76 MCA 278.87 SMA 126.24 ECC .22891 INC 3.2358 V1 30.269
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.312 GAP 10.56 AZP 89.50 TAL 144.89 TAP 63.76 RCA 97.34 APO 155.14 V2 34.885
 RC 146.734 GL 15.37 GP -3.23 ZAL 38.43 ZAP 165.35 ETS 349.43 ZAE 123.11 ETE 181.12 ZAC 114.93 ETC 167.71 CLP-165.70

PLANETOCENTRIC CONIC

C3 33.240 VHL 5.765 OLA 32.91 RAL 44.35 RAD 6568.3 VEL 12.434 PTH 2.25 VHP 7.269 DPA 2.39 RAP 21.18 ECC 1.5470
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.48 0 14 23 4090.28 -18.90 174.09 282.44 62.54 1 22 34 3490.3 -22.42 166.83
 107.52 4 42 43 3232.97 -18.88 110.40 282.44 62.53 5 36 36 2633.0 -22.41 103.14
 72.48 0 14 23 4090.28 -18.90 174.09 282.44 62.54 1 22 34 3490.3 -22.42 166.83
 107.52 4 42 43 3232.97 -18.88 110.40 282.44 62.53 5 36 36 2633.0 -22.41 103.14
 110.00 6 8 28 2969.26 -26.01 93.63 286.07 66.99 6 57 57 2369.3 -28.89 85.64
 110.00 3 47 49 3401.98 -12.06 119.40 278.38 57.77 4 44 31 2802.0 -16.23 112.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7925 TRA 4.7562 TC3-1.9396 BAU .8621 SGT 6663.7 SGR 481.9 SG3 329.6 ST 3249.4 SR 468.0 SS 1121.4
 RDE .4697 RRA .0936 RC3 .0387 FAU .02206 RRT .5667 RRF .5613 RTF .9842 CRT .8887 CRS -.8522 CST -.9972
 FDE 1.4605 FRA 2.9274 FC3 -.5746 BSP 21948 SGB 6681.1 R23 .0020 R13 .9842 LSA 3461.5 MSA 230.2 SSA 12.7
 BOE 2.8317 BRA 4.7572 BC3 1.9399 FSP -1189 SGI 6669.3 SG2 396.7 THA 2.35 EL1 3276.1 EL2 212.8 ALF 7.33

LAUNCH DATE DEC 19 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 607.196

RL 147.19 LAL .00 LOL 87.16 VL 27.402 GAL 9.76 AZL 86.80 MCA 282.05 SMA 126.09 ECC .23651 INC 3.1994 V1 30.269
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.306 GAP 11.15 AZP 89.33 TAL 143.96 TAP 66.00 RCA 96.27 APO 155.92 V2 34.897
 RC 148.977 GL 14.54 GP -3.11 ZAL 37.25 ZAP 166.70 ETS 348.70 ZAE 122.71 ETE 181.05 ZAC 116.66 ETC 167.63 CLP-167.07

PLANETOCENTRIC CONIC

C3 36.031 VHL 6.003 OLA 32.40 RAL 45.71 RAD 6568.4 VEL 12.546 PTH 2.27 VHP 7.621 DPA 3.23 RAP 22.79 ECC 1.5930
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.56 0 26 53 4088.71 -17.99 173.47 284.95 62.59 1 35 2 3488.7 -21.52 166.26
 106.44 4 41 4 3275.25 -17.97 113.14 284.94 62.58 5 35 39 2675.2 -21.50 105.93
 73.56 0 26 53 4088.71 -17.99 173.47 284.95 62.59 1 35 2 3488.7 -21.52 166.26
 106.44 4 41 4 3275.25 -17.97 113.14 284.94 62.58 5 35 39 2675.2 -21.50 105.93
 110.00 6 26 52 2948.68 -26.55 92.28 289.24 67.63 7 16 1 2348.7 -29.34 84.21
 110.00 3 40 16 3463.27 -9.82 122.73 280.07 57.09 4 37 59 2863.3 -14.09 116.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.8164 TRA 5.0870 TC3-1.7804 BAU .8578 SGT 6698.2 SGR 481.1 SG3 308.1 ST 3194.9 SR 465.5 SS 1076.8
 RDE .4863 RRA .1059 RC3 .0340 FAU .01907 RRT .5738 RRF .5692 RTF .9841 CRT .8805 CRS -.8438 CST -.9973
 FDE 1.3706 FRA 2.8935 FC3 -.4583 BSP 22123 SGB 6715.5 R23 .0031 R13 .9841 LSA 3395.4 MSA 234.1 SSA 12.5
 BOE 2.8581 BRA 5.0881 BC3 1.7807 FSP -1110 SGI 6704.0 SG2 393.7 THA 2.37 EL1 3221.2 EL2 218.9 ALF 7.35

LAUNCH DATE DEC 19 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 612.600

RL 147.19 LAL .00 LOL 87.16 VL 27.379 GAL 10.37 AZL 86.84 MCA 285.23 SMA 125.95 ECC .24479 INC 3.1622 V1 30.269
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.300 GAP 11.78 AZP 89.17 TAL 143.04 TAP 68.27 RCA 95.12 APO 156.77 V2 34.908
 RC 151.204 GL 13.72 GP -3.00 ZAL 36.11 ZAP 168.03 ETS 347.79 ZAE 122.32 ETE 181.00 ZAC 118.41 ETC 167.52 CLP-168.40

PLANETOCENTRIC CONIC

C3 39.212 VHL 6.262 OLA 31.87 RAL 47.03 RAD 6568.5 VEL 12.672 PTH 2.30 VHP 7.995 DPA 4.07 RAP 24.43 ECC 1.6453
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.72 0 39 52 4086.04 -17.06 172.76 287.48 62.66 1 47 58 3486.0 -20.58 165.59
 105.28 4 38 37 3320.68 -17.04 116.10 287.48 62.65 5 33 58 2720.7 -20.57 108.93
 74.72 0 39 52 4086.04 -17.06 172.76 287.48 62.66 1 47 58 3486.0 -20.58 165.59
 105.28 4 38 37 3320.68 -17.04 116.10 287.48 62.65 5 33 58 2720.7 -20.57 108.93
 110.00 6 43 25 2934.02 -26.92 91.30 292.35 68.10 7 32 19 2334.0 -29.65 83.18
 110.00 3 34 14 3520.70 -7.68 125.80 281.87 56.59 4 32 54 2920.7 -12.02 119.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.8450 TRA 5.4434 TC3-1.6181 BAU .8484 SGT 6729.1 SGR 479.9 SG3 288.4 ST 3142.5 SR 462.2 SS 1037.5
 RDE .5033 RRA .1203 RC3 .0297 FAU .01619 RRT .5834 RRF .5794 RTF .9840 CRT .8725 CRS -.8359 CST -.9974
 FDE 1.2915 FRA 2.8678 FC3 -.3574 BSP 22212 SGB 6746.2 R23 .0042 R13 .9841 LSA 3333.0 MSA 237.3 SSA 12.2
 BOE 2.8891 BRA 5.4448 BC3 1.6184 FSP -1035 SGI 6735.0 SG2 389.4 THA 2.39 EL1 3168.4 EL2 224.0 ALF 7.35

LAUNCH DATE DEC 20 1968

FLIGHT TIME 70.00

ARRIVAL DATE FEB 28 1969

HELIOCENTRIC CONIC

DISTANCE 138.837

RL 147.18 LAL .00 LOL 88.18 VL 18.334 GAL 18.61 AZL 86.01 MCA 46.24 SMA 90.45 ECC .67466 INC 3.9860 V1 30.271
 RP 107.48 LAP 2.88 LOP 134.35 VP 31.659 GAP -41.27 AZP 87.24 TAL 170.38 TAP 216.62 RCA 29.43 APO 151.47 V2 35.259
 RC 68.209 GL 4.85 GP .96 ZAL 65.31 ZAP 28.77 ETS 181.55 ZAE 141.68 ETE 190.45 ZAC 77.89 ETC 165.46 CLP 28.76

PLANETOCENTRIC CONIC

C3 204.492 VHL 14.300 DLA 13.42 RAL 19.39 RAD 6571.1 VEL 18.050 PTH 3.01 VHP 23.840 OPA -8.87 RAP 345.41 ECC 4.3654
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 59 12 3167.00 -26.51 108.42 285.30 79.68 5 51 59 2567.0 -27.67 99.94
 90.00 20 26 59 4950.27 21.68 216.33 273.24 71.33 21 49 29 4350.3 18.93 208.73
 100.00 6 27 34 2882.02 -28.25 87.81 285.65 79.81 7 15 36 2282.0 -29.37 79.19
 100.00 21 41 18 4710.48 23.35 198.08 272.61 70.79 22 59 49 4110.5 20.52 190.43
 110.00 7 51 36 2619.09 -32.89 68.80 286.61 80.12 8 35 15 2019.1 -33.90 59.71
 110.00 22 33 46 4546.17 27.78 183.83 270.83 69.23 23 49 32 3946.2 24.70 176.01

DIFFERENTIAL CORRECTIONS

TOE -.6761 TRA-1.7379 TC3 -.1131 BAU .3133
 RDE -1.0158 RRA .4310 RC3 -.0182 FAU .01296
 FDE .3498 FRA .6624 FC3 -.0549 BSP 2246
 BOE 1.2202 BRA 1.7905 BC3 .1146 FSP -63

MID-COURSE EXECUTION ACCURACY

SGT 831.0 SGR 447.0 SG3 29.8
 RRT -.0001 RRF -.0030 RTF -.6375
 SGB 943.6 R23 .0030 R13 .6375
 SGI 831.0 SG2 447.0 THA 180.00

ORBIT DETERMINATION ACCURACY

ST 345.8 SR 410.5 SS 334.5
 CRT .6962 CRS .7903 CST .9884
 LSA 590.8 MSA 225.1 SSA 13.7
 ELI 495.8 EL2 205.5 ALF 51.94

LAUNCH DATE DEC 20 1968

FLIGHT TIME 72.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 144.778

RL 147.18 LAL .00 LOL 88.18 VL 19.015 GAL 17.80 AZL 86.09 MCA 49.48 SMA 92.04 ECC .64713 INC 3.9146 V1 30.271
 RP 107.48 LAP 2.98 LOP 137.60 VP 32.057 GAP -39.55 AZP 87.45 TAL 169.61 TAP 219.09 RCA 32.48 APO 151.60 V2 35.257
 RC 66.167 GL 5.20 GP .99 ZAL 64.18 ZAP 27.24 ETS 181.82 ZAE 142.20 ETE 191.06 ZAC 79.55 ETC 165.62 CLP 27.22

PLANETOCENTRIC CONIC

C3 185.828 VHL 13.632 DLA 14.18 RAL 20.35 RAD 6571.0 VEL 17.526 PTH 2.97 VHP 22.889 OPA -8.18 RAP 347.00 ECC 4.0583
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 18 3178.50 -26.37 109.23 285.43 79.29 5 49 17 2578.5 -27.58 100.77
 90.00 20 37 32 4908.73 20.75 213.63 273.01 70.29 21 59 20 4308.7 17.88 206.14
 100.00 6 25 11 2891.84 -28.13 88.52 285.80 79.46 7 13 23 2291.8 -29.30 79.91
 100.00 21 51 20 4670.61 22.44 195.47 272.35 69.71 23 9 10 4070.6 19.47 187.93
 110.00 7 50 20 2625.44 -32.82 69.28 286.80 79.84 8 34 5 2025.4 -33.87 60.20
 110.00 22 42 40 4509.78 26.88 181.38 270.47 68.04 23 57 50 3909.8 23.66 173.70

DIFFERENTIAL CORRECTIONS

TOE -.6769 TRA-1.7438 TC3 -.1198 BAU .3018
 RDE -.9797 RRA .4085 RC3 -.0203 FAU .01314
 FDE .3836 FRA .6864 FC3 -.0612 BSP 2359
 BOE 1.1909 BRA 1.7910 BC3 .1215 FSP -70

MID-COURSE EXECUTION ACCURACY

SGT 871.3 SGR 451.7 SG3 32.3
 RRT .0033 RRF -.0060 RTF -.6568
 SGB 981.4 R23 -.0030 R13 -.6568
 SGI 871.3 SG2 451.6 THA .14

ORBIT DETERMINATION ACCURACY

ST 364.0 SR 415.2 SS 350.2
 CRT .6936 CRS .7914 CST .9881
 LSA 611.4 MSA 231.2 SSA 14.0
 ELI 509.4 EL2 213.2 ALF 50.37

LAUNCH DATE DEC 20 1968

FLIGHT TIME 74.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 150.811

RL 147.18 LAL .00 LOL 88.18 VL 19.651 GAL 17.03 AZL 86.15 MCA 52.73 SMA 93.64 ECC .62020 INC 3.8497 V1 30.271
 RP 107.49 LAP 3.06 LOP 140.85 VP 32.436 GAP -37.52 AZP 87.67 TAL 168.85 TAP 221.58 RCA 35.56 APO 151.71 V2 35.256
 RC 64.161 GL 5.57 GP 1.02 ZAL 63.11 ZAP 25.73 ETS 182.12 ZAE 142.84 ETE 191.72 ZAC 81.22 ETC 165.77 CLP 25.71

PLANETOCENTRIC CONIC

C3 168.956 VHL 12.998 DLA 14.93 RAL 21.26 RAD 6570.8 VEL 17.038 PTH 2.93 VHP 21.973 OPA -7.48 RAP 348.60 ECC 3.7806
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 9 3189.17 -26.23 109.98 285.44 78.94 5 46 19 2589.2 -27.50 101.54
 90.00 20 47 52 4866.54 19.76 210.94 272.73 69.30 22 8 59 4266.5 16.77 203.54
 100.00 6 22 35 2900.80 -28.02 89.16 285.83 79.14 7 10 55 2300.8 -29.23 80.57
 100.00 22 1 8 4630.15 21.46 192.86 272.04 68.68 23 18 18 4030.2 18.37 185.43
 110.00 7 48 51 2630.85 -32.75 69.69 286.86 79.61 8 32 42 2030.8 -33.84 60.62
 110.00 22 51 21 4472.87 25.91 178.95 270.05 66.89 24 5 54 3872.9 22.56 171.40

DIFFERENTIAL CORRECTIONS

TOE -.6755 TRA-1.7467 TC3 -.1258 BAU .2886
 RDE -.9438 RRA .3861 RC3 -.0225 FAU .01336
 FDE .3776 FRA .7105 FC3 -.0685 BSP 2537
 BOE 1.1607 BRA 1.7889 BC3 .1278 FSP -77

MID-COURSE EXECUTION ACCURACY

SGT 911.3 SGR 455.6 SG3 35.0
 RRT .0064 RRF -.0093 RTF -.6756
 SGB 1018.9 R23 -.0035 R13 -.6756
 SGI 911.4 SG2 455.6 THA .24

ORBIT DETERMINATION ACCURACY

ST 382.0 SR 419.4 SS 366.1
 CRT .6946 CRS .7926 CST .9877
 LSA 632.0 MSA 237.0 SSA 14.2
 ELI 522.7 EL2 220.5 ALF 48.84

LAUNCH DATE DEC 20 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 156.930

RL 147.18 LAL .00 LOL 88.18 VL 20.246 GAL 16.29 AZL 86.21 MCA 55.98 SMA 95.23 ECC .59396 INC 3.7903 V1 30.271
 RP 107.50 LAP 3.14 LOP 144.10 VP 32.797 GAP -35.78 AZP 87.88 TAL 168.11 TAP 224.09 RCA 38.67 APO 151.79 V2 35.253
 RC 62.196 GL 5.95 GP 1.08 ZAL 62.10 ZAP 24.24 ETS 182.46 ZAE 143.60 ETE 192.42 ZAC 82.91 ETC 165.91 CLP 24.22

PLANETOCENTRIC CONIC

C3 153.689 VHL 12.397 DLA 15.67 RAL 22.10 RAD 6570.7 VEL 16.584 PTH 2.88 VHP 21.089 OPA -6.76 RAP 350.21 ECC 3.5293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 45 3199.09 -26.10 110.68 285.32 78.62 5 43 4 2599.1 -27.41 102.26
 90.00 20 58 2 4823.67 18.71 208.23 272.40 68.35 22 18 25 4223.7 15.60 200.93
 100.00 6 19 44 2908.93 -27.92 89.74 285.73 78.85 7 8 13 2308.9 -29.17 81.16
 100.00 22 10 44 4589.07 20.42 190.25 271.67 67.68 23 27 13 3989.1 17.22 182.93
 110.00 7 47 10 2635.34 -32.69 70.03 286.79 79.42 8 31 5 2035.3 -33.81 60.97
 110.00 22 59 47 4455.41 24.89 176.52 269.58 65.78 24 13 43 3835.4 21.41 169.10

DIFFERENTIAL CORRECTIONS

TOE -.6774 TRA-1.7517 TC3 -.1322 BAU .2763
 RDE -.9081 RRA .3640 RC3 -.0250 FAU .01359
 FDE .3923 FRA .7353 FC3 -.0765 BSP 2656
 BOE 1.1329 BRA 1.7892 BC3 .1345 FSP -84

MID-COURSE EXECUTION ACCURACY

SGT 955.2 SGR 458.8 SG3 38.0
 RRT .0109 RRF -.0133 RTF -.6934
 SGB 1059.7 R23 -.0035 R13 -.6935
 SGI 955.2 SG2 458.8 THA .39

ORBIT DETERMINATION ACCURACY

ST 402.2 SR 423.0 SS 382.7
 CRT .6948 CRS .7940 CST .9875
 LSA 654.4 MSA 242.3 SSA 14.4
 ELI 537.4 EL2 227.6 ALF 47.07

LAUNCH DATE DEC 20 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 8 1969

DISTANCE 163.128

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 20.801 GAL 15.57 AZL 86.26 HCA 59.22 SMA 96.81 ECC .56846 INC 3.7352 VI 30.271
 RP 107.51 LAP 3.21 LOP 147.35 VP 33.139 GAP -34.13 AZP 88.09 TAL 167.39 TAP 226.62 RCA 41.78 APO 151.85 V2 35.250
 RC 60.278 GL 6.34 GP 1.09 ZAL 61.15 ZAP 22.77 ETS 182.82 ZAE 144.49 ETE 193.19 ZAC 84.62 ETC 166.03 CLP 22.74

PLANETOCENTRIC CONIC
 C3 139.861 VHL 11.826 DLA 16.39 RAL 22.89 RAD 6570.5 VEL 16.161 PTH 2.84 VHP 20.236 DPA -6.02 RAP 351.83 ECC 3.3018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 4 3208.29 -25.98 111.32 285.08 78.32 5 39 33 2608.3 -27.33 102.92
 90.00 21 8 1 4780.08 17.59 205.52 272.01 67.44 22 27 41 4180.1 14.38 198.32
 100.00 6 16 37 2916.27 -27.82 90.27 285.51 78.59 7 5 14 2316.3 -29.11 81.70
 100.00 22 20 9 4547.34 19.32 187.64 271.24 66.74 23 35 56 3947.3 16.01 180.42
 110.00 7 45 15 2638.95 -32.65 70.30 286.60 79.26 8 29 14 2039.0 -33.78 61.25
 110.00 23 8 0 4397.42 23.81 174.10 269.06 64.71 24 21 17 3797.4 20.20 166.81

MID-COURSE EXECUTION ACCURACY
 SGT 998.8 SGR 461.3 SG3 41.2
 RRT .0151 RRF -.0177 RTF -.7108
 SGB 1100.2 R23 -.0040 R13 -.7108
 SGI 998.8 SG2 461.3 TMA .51

ORBIT DETERMINATION ACCURACY
 ST 422.3 SR 425.9 SS 399.7
 CRT .6948 CRS .7956 CST .9872
 LSA 676.9 MSA 247.2 SSA 14.5
 EL1 552.1 EL2 234.3 ALF 45.36

DIFFERENTIAL CORRECTIONS
 TDE -.6772 TRA -1.7534 TC3 -.1376 BAU .2624
 RDE -.8726 RRA .3421 RC3 -.0276 FAU .01386
 FDE .4074 FRA .7603 FC3 -.0858 BSP 2838
 BOE 1.1045 BRA 1.7864 BC3 .1403 FSP -93

LAUNCH DATE DEC 20 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 10 1969

DISTANCE 169.400

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 21.320 GAL 14.88 AZL 86.32 HCA 62.47 SMA 98.38 ECC .54375 INC 3.6838 VI 30.271
 RP 107.52 LAP 3.27 LOP 150.60 VP 33.463 GAP -32.55 AZP 88.30 TAL 166.70 TAP 229.17 RCA 44.89 APO 151.88 V2 35.246
 RC 58.412 GL 6.74 GP 1.13 ZAL 60.27 ZAP 21.31 ETS 183.23 ZAE 145.50 ETE 194.02 ZAC 86.34 ETC 166.14 CLP 21.28

PLANETOCENTRIC CONIC
 C3 127.329 VHL 11.284 DLA 17.10 RAL 23.62 RAD 6570.4 VEL 15.769 PTH 2.80 VHP 19.412 DPA -5.27 RAP 353.46 ECC 3.0955
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 42 6 3216.85 -25.86 111.92 284.72 78.04 5 35 43 2616.8 -27.25 103.53
 90.00 21 17 50 4735.76 16.41 202.80 271.56 66.60 22 36 45 4135.8 13.11 195.69
 100.00 6 13 15 2922.89 -27.73 90.74 285.16 78.36 7 1 58 2322.9 -29.05 82.18
 100.00 22 29 21 4504.96 18.16 185.03 270.76 65.84 23 44 26 3905.0 14.74 177.90
 110.00 7 43 7 2641.73 -32.61 70.51 286.28 79.14 8 27 9 2041.7 -33.77 61.46
 110.00 23 15 59 4358.88 22.66 171.69 268.49 63.70 24 28 38 3758.9 18.95 164.53

MID-COURSE EXECUTION ACCURACY
 SGT 1044.0 SGR 463.1 SG3 44.7
 RRT .0200 RRF -.0226 RTF -.7275
 SGB 1142.1 R23 -.0045 R13 -.7275
 SGI 1044.0 SG2 463.0 TMA .63

ORBIT DETERMINATION ACCURACY
 ST 443.3 SR 428.3 SS 417.3
 CRT .6952 CRS .7974 CST .9869
 LSA 700.4 MSA 251.5 SSA 14.7
 EL1 567.6 EL2 240.4 ALF 43.58

DIFFERENTIAL CORRECTIONS
 TDE -.6774 TRA -1.7539 TC3 -.1425 BAU .2480
 RDE -.8374 RRA .3205 RC3 -.0304 FAU .01417
 FDE .4232 FRA .7858 FC3 -.0963 BSP 3026
 BOE 1.0771 BRA 1.7829 BC3 .1457 FSP -103

LAUNCH DATE DEC 20 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 12 1969

DISTANCE 175.741

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 21.805 GAL 14.21 AZL 86.36 HCA 65.71 SMA 99.93 ECC .51988 INC 3.6353 VI 30.271
 RP 107.53 LAP 3.31 LOP 153.85 VP 33.769 GAP -31.05 AZP 88.50 TAL 166.04 TAP 231.75 RCA 47.98 APO 151.89 V2 35.241
 RC 56.605 GL 7.15 GP 1.18 ZAL 59.45 ZAP 19.86 ETS 183.70 ZAE 146.64 ETE 194.94 ZAC 88.06 ETC 166.24 CLP 19.83

PLANETOCENTRIC CONIC
 C3 115.964 VHL 10.769 DLA 17.79 RAL 24.30 RAD 6570.2 VEL 15.405 PTH 2.75 VHP 18.616 DPA -4.51 RAP 355.09 ECC 2.9085
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 37 49 3224.83 -25.74 112.48 284.24 77.78 5 31 34 2624.8 -27.17 104.10
 90.00 21 27 29 4690.69 15.17 200.07 271.07 65.80 22 45 40 4090.7 11.78 193.04
 100.00 6 9 37 2928.84 -27.65 91.16 284.69 78.15 6 58 26 2328.8 -29.00 82.62
 100.00 22 38 23 4461.91 16.94 182.42 270.23 65.00 23 52 45 3861.9 13.43 175.38
 110.00 7 40 45 2643.71 -32.59 70.66 285.85 79.06 8 24 48 2043.7 -33.75 61.61
 110.00 23 23 44 4319.81 21.47 169.29 267.88 62.74 24 35 44 3719.8 17.64 162.25

MID-COURSE EXECUTION ACCURACY
 SGT 1093.2 SGR 464.2 SG3 48.5
 RRT .0264 RRF -.0284 RTF -.7430
 SGB 1187.6 R23 -.0045 R13 -.7431
 SGI 1093.3 SG2 464.0 TMA .78

ORBIT DETERMINATION ACCURACY
 ST 466.8 SR 430.0 SS 435.9
 CRT .6971 CRS .7996 CST .9868
 LSA 726.2 MSA 255.1 SSA 14.9
 EL1 585.0 EL2 246.0 ALF 41.63

DIFFERENTIAL CORRECTIONS
 TDE -.6806 TRA -1.7560 TC3 -.1477 BAU .2347
 RDE -.8026 RRA .2992 RC3 -.0333 FAU .01450
 FDE .4401 FRA .8122 FC3 -.1082 BSP 3158
 BOE 1.0523 BRA 1.7813 BC3 .1514 FSP -113

LAUNCH DATE DEC 20 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 14 1969

DISTANCE 182.143

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 22.258 GAL 13.56 AZL 86.41 HCA 68.96 SMA 101.46 ECC .49687 INC 3.5892 VI 30.271
 RP 107.55 LAP 3.35 LOP 157.10 VP 34.057 GAP -29.61 AZP 88.71 TAL 165.40 TAP 234.36 RCA 51.05 APO 151.87 V2 35.235
 RC 54.864 GL 7.57 GP 1.23 ZAL 58.69 ZAP 18.43 ETS 184.23 ZAE 147.93 ETE 195.96 ZAC 89.80 ETC 166.31 CLP 18.39

PLANETOCENTRIC CONIC
 C3 105.654 VHL 10.279 DLA 18.48 RAL 24.92 RAD 6570.0 VEL 15.066 PTH 2.71 VHP 17.848 DPA -3.73 RAP 356.72 ECC 2.7388
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 33 13 3232.33 -25.64 113.00 283.64 77.54 5 27 6 2632.3 -27.10 104.64
 90.00 21 37 0 4644.85 13.87 197.33 270.52 65.07 22 54 25 4044.8 10.40 190.38
 100.00 6 5 41 2934.19 -27.57 91.54 284.11 77.96 6 54 35 2334.2 -28.95 83.01
 100.00 22 47 14 4418.22 15.66 179.80 269.65 64.21 24 0 52 3818.2 12.07 172.85
 110.00 7 38 8 2644.94 -32.57 70.75 285.29 79.01 8 22 13 2044.9 -33.74 61.71
 110.00 23 31 16 4280.23 20.21 166.90 267.21 61.83 24 42 37 3680.2 16.29 159.98

MID-COURSE EXECUTION ACCURACY
 SGT 1142.0 SGR 464.4 SG3 52.6
 RRT .0328 RRF -.0348 RTF -.7582
 SGB 1232.8 R23 -.0050 R13 -.7583
 SGI 1142.1 SG2 464.1 TMA .92

ORBIT DETERMINATION ACCURACY
 ST 490.2 SR 431.0 SS 454.9
 CRT .6988 CRS .8019 CST .9866
 LSA 752.4 MSA 258.2 SSA 15.0
 EL1 602.6 EL2 250.8 ALF 39.77

DIFFERENTIAL CORRECTIONS
 TDE -.6820 TRA -1.7542 TC3 -.1513 BAU .2198
 RDE -.7682 RRA .2783 RC3 -.0364 FAU .01488
 FDE .4577 FRA .8391 FC3 -.1219 BSP 3354
 BOE 1.0272 BRA 1.7761 BC3 .1556 FSP -125

LAUNCH DATE DEC 20 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 188.603

RL 147.18 LAL .00 LOL 88.18 VL 22.681 GAL 12.94 AZL 86.45 MCA 72.20 SMA 102.96 ECC .47473 INC 3.5451 V1 30.271
 RP 107.57 LAP 3.38 LOP 160.35 VP 34.329 GAP -28.23 AZP 88.92 TAL 164.79 TAP 237.00 RCA 54.08 APO 151.83 V2 35.229
 RC 53.197 GL 8.01 GP 1.29 ZAL 57.99 ZAP 17.00 ETS 184.85 ZAE 149.36 ETE 197.10 ZAC 91.54 ETC 166.37 CLP 16.95

PLANETOCENTRIC CONIC

C3 96.298 VHL 9.813 OLA 19.15 RAL 25.47 RAD 6569.9 VEL 14.753 PTH 2.67 VHP 17.104 DPA -2.95 RAP 358.35 ECC 2.5848
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 28 17 3239.42 -25.53 113.49 282.92 77.32 5 22 16 2639.4 -27.02 105.14
 90.00 21 46 23 4598.24 12.52 194.58 269.93 64.39 23 3 2 3998.2 8.97 187.70
 100.00 6 1 26 2939.02 -27.50 91.88 283.41 77.80 6 50 25 2339.0 -28.91 83.36
 100.00 22 55 55 4373.88 14.33 177.18 269.02 63.48 24 8 49 3773.9 10.66 170.32
 110.00 7 35 15 2645.49 -32.57 70.79 284.61 78.98 8 19 21 2045.5 -33.74 61.75
 110.00 23 38 35 4240.17 18.91 164.53 266.50 60.98 24 49 15 3640.2 14.89 157.71

DIFFERENTIAL CORRECTIONS

TDE -.6836 TRA-1.7511 TC3 -.1539 BAU .2046
 RDE -.7343 RRA .2579 RC3 -.0396 FAU .01530
 FDE .4763 FRA .8667 FC3 -.1375 BSP 3554
 BDE 1.0032 BRA 1.7699 BC3 .1589 FSP -137

MID-COURSE EXECUTION ACCURACY

SGT 1192.4 SGR 464.0 SG3 57.1
 RRT .0399 RRF -.0419 RTF -.7728
 SGB 1279.5 R23 -.0056 R13 -.7728
 SG1 1192.6 SG2 463.5 THA 1.05

ORBIT DETERMINATION ACCURACY

ST 514.6 SR 431.4 SS 474.8
 CRT .7010 CRS .8046 CST .9865
 LSA 779.9 MSA 260.6 SSA 15.2
 EL1 621.3 EL2 254.8 ALF 37.91

LAUNCH DATE DEC 20 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 195.113

RL 147.18 LAL .00 LOL 88.18 VL 23.077 GAL 12.34 AZL 86.50 MCA 75.44 SMA 104.42 ECC .45348 INC 3.5026 V1 30.271
 RP 107.59 LAP 3.39 LOP 163.60 VP 34.585 GAP -26.92 AZP 89.12 TAL 164.22 TAP 239.67 RCA 57.07 APO 151.78 V2 35.222
 RC 51.611 GL 8.45 GP 1.35 ZAL 57.36 ZAP 15.59 ETS 185.58 ZAE 150.93 ETE 198.40 ZAC 93.29 ETC 166.42 CLP 15.53

PLANETOCENTRIC CONIC

C3 87.807 VHL 9.371 OLA 19.81 RAL 25.97 RAD 6569.7 VEL 14.462 PTH 2.63 VHP 16.386 DPA -2.15 RAP 359.99 ECC 2.4451
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 58 3246.23 -25.43 113.97 282.10 77.10 5 17 5 2646.2 -26.95 105.63
 90.00 21 55 40 4550.87 11.11 191.82 269.29 63.79 23 11 30 3950.9 7.50 185.00
 100.00 5 56 53 2943.40 -27.44 92.19 282.60 77.65 6 45 56 2343.4 -28.86 83.68
 100.00 23 4 26 4328.92 12.95 174.56 268.34 62.82 24 16 35 3728.9 9.20 167.77
 110.00 7 32 8 2645.41 -32.57 70.78 283.82 78.99 8 16 13 2045.4 -33.74 61.75
 110.00 23 45 41 4199.68 17.55 162.17 265.75 60.19 24 55 40 3599.7 13.45 155.45

DIFFERENTIAL CORRECTIONS

TDE -.6858 TRA-1.7464 TC3 -.1553 BAU .1892
 RDE -.7010 RRA .2379 RC3 -.0429 FAU .01577
 FDE .4961 FRA .8953 FC3 -.1555 BSP 3757
 BDE .9807 BRA 1.7626 BC3 .1611 FSP -151

MID-COURSE EXECUTION ACCURACY

SGT 1244.5 SGR 462.7 SG3 62.0
 RRT .0480 RRF -.0500 RTF -.7866
 SGB 1327.8 R23 -.0062 R13 -.7866
 SG1 1244.7 SG2 462.1 THA 1.19

ORBIT DETERMINATION ACCURACY

ST 540.2 SR 431.2 SS 495.6
 CRT .7040 CRS .8076 CST .9864
 LSA 809.0 MSA 262.3 SSA 15.3
 EL1 641.3 EL2 258.0 ALF 36.05

LAUNCH DATE DEC 20 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 201.670

RL 147.18 LAL .00 LOL 88.18 VL 23.447 GAL 11.76 AZL 86.54 MCA 78.68 SMA 105.85 ECC .43313 INC 3.4614 V1 30.271
 RP 107.61 LAP 3.39 LOP 166.84 VP 34.825 GAP -25.65 AZP 89.32 TAL 163.69 TAP 242.37 RCA 60.01 APO 151.70 V2 35.215
 RC 50.116 GL 8.91 GP 1.41 ZAL 56.79 ZAP 14.18 ETS 186.45 ZAE 152.65 ETE 199.88 ZAC 95.03 ETC 166.44 CLP 14.11

PLANETOCENTRIC CONIC

C3 80.101 VHL 8.950 OLA 20.46 RAL 26.41 RAD 6569.6 VEL 14.193 PTH 2.59 VHP 15.691 DPA -1.34 RAP 1.62 ECC 2.3183
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 17 18 3252.84 -25.33 114.42 281.16 76.89 5 11 30 2652.8 -26.88 106.10
 90.00 22 4 49 4502.74 9.65 189.04 268.60 63.25 23 19 52 3902.7 5.98 182.28
 100.00 5 52 0 2947.44 -27.38 92.48 281.68 77.51 6 41 8 2347.4 -28.82 83.97
 100.00 23 12 48 4283.39 11.52 171.93 267.62 62.22 24 24 11 3683.4 7.71 165.21
 110.00 7 28 45 2644.77 -32.57 70.74 282.92 79.01 8 12 50 2044.8 -33.75 61.70
 110.00 23 52 33 4158.81 16.15 159.83 264.96 59.46 25 1 51 3558.8 11.98 153.21

DIFFERENTIAL CORRECTIONS

TDE -.6886 TRA-1.7402 TC3 -.1554 BAU .1737
 RDE -.6684 RRA .2185 RC3 -.0463 FAU .01629
 FDE .5173 FRA .9249 FC3 -.1761 BSP 3964
 BDE .9597 BRA 1.7539 BC3 .1622 FSP -167

MID-COURSE EXECUTION ACCURACY

SGT 1298.3 SGR 460.7 SG3 67.4
 RRT .0572 RRF -.0591 RTF -.7996
 SGB 1377.6 R23 -.0068 R13 -.7997
 SG1 1298.6 SG2 459.9 THA 1.33

ORBIT DETERMINATION ACCURACY

ST 567.2 SR 430.3 SS 517.5
 CRT .7077 CRS .8110 CST .9864
 LSA 839.7 MSA 263.2 SSA 15.4
 EL1 662.6 EL2 260.2 ALF 34.21

LAUNCH DATE DEC 20 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 208.267

RL 147.18 LAL .00 LOL 88.18 VL 23.792 GAL 11.21 AZL 86.58 MCA 81.92 SMA 107.25 ECC .41367 INC 3.4211 V1 30.271
 RP 107.64 LAP 3.39 LOP 170.09 VP 35.050 GAP -24.43 AZP 89.52 TAL 163.19 TAP 245.11 RCA 62.88 APO 151.61 V2 35.207
 RC 48.721 GL 9.37 GP 1.48 ZAL 56.29 ZAP 12.77 ETS 187.52 ZAE 154.51 ETE 201.61 ZAC 96.78 ETC 166.44 CLP 12.69

PLANETOCENTRIC CONIC

C3 73.107 VHL 8.550 OLA 21.09 RAL 26.78 RAD 6569.4 VEL 13.945 PTH 2.55 VHP 15.020 DPA -.52 RAP 3.25 ECC 2.2032
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 13 3259.40 -25.22 114.88 280.11 76.69 5 5 32 2659.4 -26.81 106.57
 90.00 22 13 54 4453.89 8.14 186.24 267.88 62.78 23 28 8 3853.9 4.43 179.53
 100.00 5 46 48 2951.21 -27.32 92.74 280.65 77.38 6 35 59 2351.2 -28.79 84.25
 100.00 23 21 0 4237.31 10.04 169.31 266.86 61.70 24 31 38 3637.3 6.18 162.65
 110.00 7 25 6 2643.64 -32.59 70.65 281.92 79.06 8 9 10 2043.6 -33.75 61.61
 110.00 0 3 7 4117.64 14.72 157.50 264.13 58.79 1 11 45 3517.6 10.47 150.97

DIFFERENTIAL CORRECTIONS

TDE -.6918 TRA-1.7324 TC3 -.1537 BAU .1579
 RDE -.6366 RRA .1995 RC3 -.0498 FAU .01687
 FDE .5400 FRA .9556 FC3 -.1998 BSP 4177
 BDE .9401 BRA 1.7439 BC3 .1616 FSP -183

MID-COURSE EXECUTION ACCURACY

SGT 1353.6 SGR 458.0 SG3 73.2
 RRT .0675 RRF -.0694 RTF -.8121
 SGB 1429.0 R23 -.0075 R13 -.8122
 SG1 1354.0 SG2 456.8 THA 1.48

ORBIT DETERMINATION ACCURACY

ST 595.2 SR 428.7 SS 540.5
 CRT .7121 CRS .8148 CST .9864
 LSA 872.1 MSA 263.3 SSA 15.6
 EL1 685.4 EL2 261.4 ALF 32.43

LAUNCH DATE DEC 20 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 214.901

RL 147.18 LAL .00 LOL 88.18 VL 24.114 GAL 10.67 AZL 86.62 MCA 85.16 SMA 108.60 ECC .39510 INC 3.3815 V1 30.271
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.261 GAP -23.27 AZP 89.71 TAL 162.73 TAP 247.88 RCA 65.69 APO 151.51 V2 35.198
 RC 47.437 GL 9.85 GP 1.57 ZAL 55.85 ZAP 11.37 ETS 188.87 ZAE 156.51 ETE 203.67 ZAC 98.51 ETC 166.43 CLP 11.27

PLANETOCENTRIC CONIC

C3 66.763 VHL 8.171 DLA 21.71 RAL 27.10 RAD 6569.3 VEL 13.716 PTH 2.51 VHP 14.371 DPA .30 RAP 4.87 ECC 2.0987
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 43 3266.01 -25.12 115.33 278.97 76.48 4 59 9 2666.0 -26.73 107.04
 90.00 22 22 54 4404.33 6.59 183.43 267.12 62.40 23 36 18 3804.3 2.84 176.75
 100.00 5 41 14 2954.81 -27.27 93.00 279.53 77.25 6 30 29 2354.8 -28.75 84.51
 100.00 23 29 4 4190.76 8 53 166.68 266.07 61.24 24 38 55 3590.8 4.63 160.07
 110.00 7 21 11 2642.10 -32.61 70.54 280.82 79.13 8 5 13 2042.1 -33.76 61.49
 110.00 0 9 32 4076.24 13.24 155.20 263.26 58.19 1 17 28 3476.2 8.94 148.74

DIFFERENTIAL CORRECTIONS

TOE -.6983 TRA-1.7255 TC3 -.1517 BAU .1435
 RDE -.6055 RRA .1810 RC3 -.0532 FAU .01750
 FDE .5650 FRA .9881 FC3 -.2269 BSP 4332
 BOE .9243 BRA 1.7350 BC3 .1608 FSP -201

MID-COURSE EXECUTION ACCURACY

SGT 1413.3 SGR 454.5 SG3 79.7
 RRT .0802 RRF -.0813 RTF -.8235
 SGB 1484.5 R23 -.0077 R13 -.8236
 SG1 1413.8 SG2 452.8 THA 1.65

ORBIT DETERMINATION ACCURACY

ST 626.5 SR 426.6 SS 565.1
 CRT .7181 CRS .8191 CST .9867
 LSA 908.1 MSA 262.5 SSA 15.7
 EL1 711.4 EL2 261.4 ALF 30.63

LAUNCH DATE DEC 20 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 221.565

RL 147.18 LAL .00 LOL 88.18 VL 24.414 GAL 10.16 AZL 86.66 MCA 88.39 SMA 109.91 ECC .37742 INC 3.3422 V1 30.271
 RP 107.69 LAP 3.34 LOP 176.57 VP 35.458 GAP -22.14 AZP 89.91 TAL 162.30 TAP 250.70 RCA 68.43 APO 151.40 V2 35.189
 RC 46.274 GL 10.33 GP 1.65 ZAL 55.47 ZAP 9.98 ETS 190.61 ZAE 158.64 ETE 206.17 ZAC 100.24 ETC 166.39 CLP 9.84

PLANETOCENTRIC CONIC

C3 61.006 VHL 7.811 DLA 22.32 RAL 27.35 RAD 6569.1 VEL 13.504 PTH 2.47 VHP 13.743 DPA 1.13 RAP 6.48 ECC 2.0040
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 48 3272.82 -25.01 115.80 277.73 76.27 4 52 20 2672.8 -26.65 107.52
 90.00 22 31 51 4354.09 4.99 180.60 266.32 62.09 23 44 25 3754.1 1.22 173.95
 100.00 5 35 20 2958.34 -27.22 93.25 278.31 77.13 6 24 38 2358.3 -28.71 84.76
 100.00 23 37 0 4143.80 6.98 164.05 265.23 60.86 24 46 3 3543.8 3.04 157.48
 110.00 7 17 1 2640.19 -32.63 70.39 279.62 79.21 8 1 1 2040.2 -33.78 61.34
 110.00 0 15 43 4034.72 11.74 152.92 262.36 57.66 1 22 58 3434.7 7.39 146.53

DIFFERENTIAL CORRECTIONS

TOE -.7024 TRA-1.7142 TC3 -.1460 BAU .1277
 RDE -.5754 RRA .1631 RC3 -.0566 FAU .01821
 FDE .5915 FRA 1.0217 FC3 -.2585 BSP 4550
 BOE .9080 BRA 1.7220 BC3 .1566 FSP -222

MID-COURSE EXECUTION ACCURACY

SGT 1471.5 SGR 450.2 SG3 86.7
 RRT .0933 RRF -.0943 RTF -.9346
 SGB 1538.8 R23 -.0086 R13 -.8347
 SG1 1472.2 SG2 448.0 THA 1.80

ORBIT DETERMINATION ACCURACY

ST 657.2 SR 423.8 SS 590.7
 CRT .7240 CRS .8236 CST .9868
 LSA 944.5 MSA 261.0 SSA 15.8
 EL1 737.3 EL2 260.6 ALF 28.99

LAUNCH DATE DEC 20 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 228.256

RL 147.18 LAL .00 LOL 88.18 VL 24.694 GAL 9.66 AZL 86.70 MCA 91.63 SMA 111.18 ECC .36060 INC 3.3031 V1 30.271
 RP 107.72 LAP 3.30 LOP 179.81 VP 35.642 GAP -21.06 AZP 90.09 TAL 161.92 TAP 253.55 RCA 71.09 APO 151.27 V2 35.179
 RC 45.244 GL 10.82 GP 1.75 ZAL 55.16 ZAP 8.59 ETS 192.94 ZAE 160.87 ETE 209.28 ZAC 101.96 ETC 166.32 CLP 8.41

PLANETOCENTRIC CONIC

C3 55.785 VHL 7.469 DLA 22.92 RAL 27.54 RAD 6569.0 VEL 13.310 PTH 2.43 VHP 13.136 DPA 1.97 RAP 8.08 ECC 1.9181
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 25 3279.96 -24.90 116.29 276.40 76.05 4 45 5 2680.0 -26.57 108.02
 90.00 22 40 45 4303.20 3.36 177.74 265.48 61.87 23 52 28 3703.2 -.42 171.11
 100.00 5 29 4 2961.88 -27.16 93.50 277.00 77.01 6 18 26 2361.9 -28.68 85.02
 100.00 23 44 47 4096.52 5.41 161.43 264.35 60.56 24 53 3 3496.5 1.44 154.88
 110.00 7 12 36 2637.98 -32.66 70.23 278.33 79.30 7 56 34 2038.0 -33.79 61.17
 110.00 0 21 40 3993.18 10.22 150.67 261.42 57.20 1 28 13 3393.2 5.82 144.33

DIFFERENTIAL CORRECTIONS

TOE -.7076 TRA-1.7014 TC3 -.1378 BAU .1120
 RDE -.5461 RRA .1458 RC3 -.0598 FAU .01901
 FDE .6204 FRA 1.0571 FC3 -.2951 BSP 4766
 BOE .8938 BRA 1.7077 BC3 .1502 FSP -244

MID-COURSE EXECUTION ACCURACY

SGT 1531.3 SGR 445.2 SG3 94.5
 RRT .1082 RRF -.1091 RTF -.8451
 SGB 1594.7 R23 -.0095 R13 -.8452
 SG1 1532.2 SG2 442.4 THA 1.97

ORBIT DETERMINATION ACCURACY

ST 689.5 SR 420.5 SS 617.9
 CRT .7309 CRS .8286 CST .9870
 LSA 983.3 MSA 258.7 SSA 15.9
 EL1 765.1 EL2 258.6 ALF 27.42

LAUNCH DATE DEC 20 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 234.968

RL 147.18 LAL .00 LOL 88.18 VL 24.955 GAL 9.19 AZL 86.74 MCA 94.86 SMA 112.40 ECC .34463 INC 3.2639 V1 30.271
 RP 107.75 LAP 3.25 LOP 183.05 VP 35.813 GAP -20.03 AZP 90.28 TAL 161.59 TAP 256.45 RCA 73.66 APO 151.14 V2 35.169
 RC 44.357 GL 11.32 GP 1.86 ZAL 54.91 ZAP 7.22 ETS 196.24 ZAE 163.19 ETE 213.28 ZAC 103.66 ETC 166.23 CLP 6.97

PLANETOCENTRIC CONIC

C3 51.052 VHL 7.145 DLA 23.49 RAL 27.67 RAD 6568.9 VEL 13.131 PTH 2.40 VHP 12.550 DPA 2.81 RAP 9.67 ECC 1.8402
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 42 34 3287.56 -24.77 116.81 274.99 75.82 4 37 22 2687.6 -26.48 108.56
 90.00 22 49 37 4251.70 1.71 174.86 264.61 61.73 24 0 29 3651.7 -2.08 168.24
 100.00 5 22 27 2965.50 -27.11 93.75 275.62 76.89 6 11 53 2365.5 -28.64 85.28
 100.00 23 52 25 4049.01 3.81 158.80 263.45 60.33 24 59 54 3449.0 -.17 152.28
 110.00 7 7 56 2635.51 -32.69 70.04 276.97 79.41 7 51 51 2035.5 -33.81 60.98
 110.00 0 27 22 3951.76 8.68 148.44 260.45 56.81 1 33 14 3351.8 4.25 142.15

DIFFERENTIAL CORRECTIONS

TOE -.7127 TRA-1.6865 TC3 -.1265 BAU .0964
 RDE -.5179 RRA .1289 RC3 -.0627 FAU .01990
 FDE .6516 FRA 1.0943 FC3 -.3374 BSP 4997
 BOE .8810 BRA 1.6914 BC3 .1412 FSP -269

MID-COURSE EXECUTION ACCURACY

SGT 1591.8 SGR 439.6 SG3 103.0
 RRT .1248 RRF -.1258 RTF -.8550
 SGB 1651.4 R23 -.0106 R13 -.8552
 SG1 1592.8 SG2 435.9 THA 2.13

ORBIT DETERMINATION ACCURACY

ST 722.7 SR 416.7 SS 646.6
 CRT .7385 CRS .8341 CST .9873
 LSA 1024.0 MSA 255.7 SSA 16.0
 EL1 794.1 EL2 255.7 ALF 25.95

LAUNCH DATE DEC 20 1968

FLIGHT TIME 102.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 241.699

RL 147.18 LAL .00 LOL 88.18 VL 25.198 GAL 8.73 AZL 86.78 HCA 98.09 SMA 113.57 ECC .32950 INC 3.2244 V1 30.271
 RP 107.79 LAP 3.19 LOP 186.28 VP 35.973 GAP -19.02 AZP 90.45 TAL 161.29 TAP 259.38 RCA 76.15 APO 151.00 V2 35.158
 RC 43.625 GL 11.82 GP 1.98 ZAL 54.73 ZAP 5.87 ETS 201.16 ZAE 165.52 ETE 218.59 ZAC 105.34 ETC 166.12 CLP 5.52

PLANETOCENTRIC CONIC

C3 46.762 VHL 6.838 DLA 24.05 RAL 27.74 RAD 6568.7 VEL 12.966 PTH 2.36 VHP 11.983 DPA 3.65 RAP 11.24 ECC 1.7696
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 34 14 3295.77 -24.63 117.38 273.50 75.57 4 29 10 2695.8 -26.37 109.14
 90.00 22 58 30 4199.66 .03 171.96 263.72 61.68 24 8 29 3599.7 -3.76 165.33
 100.00 5 15 30 2969.28 -27.05 94.02 274.16 76.76 6 4 59 2369.3 -28.60 85.56
 100.00 0 3 51 4001.38 2.20 156.18 262.51 60.18 1 10 32 3401.4 -1.78 149.66
 110.00 7 3 3 2632.83 -32.73 69.84 275.53 79.53 7 46 55 2032.8 -33.82 60.77
 110.00 0 32 48 3910.60 7.14 146.25 259.45 56.48 1 37 58 3310.6 2.69 140.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7185 TRA-1.6701 TC3 -.1121 BAU .0811 SGT 1653.5 SGR 433.3 SG3 112.4 ST 757.5 SR 412.4 SS 677.2
 RDE -.4908 RRA .1126 RC3 -.0653 FAU .02088 RRT .1436 RRF -.1447 RTF -.8644 CRT .7469 CRS .8399 CST .9876
 FDE .6858 FRA 1.1339 FC3 -.3866 BSP 5219 SGB 1709.4 R23 -.0118 R13 -.8645 LSA 1067.1 MSA 251.9 SSA 16.1
 BDE .8701 BRA 1.6739 BC3 .1297 FSP -297 SGI 1654.8 SG2 428.5 THA 2.31 EL1 824.9 EL2 251.8 ALF 24.57

LAUNCH DATE DEC 20 1968

FLIGHT TIME 104.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 248.443

RL 147.18 LAL .00 LOL 88.18 VL 25.425 GAL 8.30 AZL 86.82 HCA 101.32 SMA 114.70 ECC .31519 INC 3.1842 V1 30.271
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.120 GAP -18.06 AZP 90.63 TAL 161.04 TAP 262.36 RCA 78.55 APO 150.85 V2 35.147
 RC 43.055 GL 12.32 GP 2.12 ZAL 54.61 ZAP 4.57 ETS 209.11 ZAE 167.81 ETE 225.93 ZAC 107.00 ETC 165.98 CLP 4.05

PLANETOCENTRIC CONIC

C3 42.876 VHL 6.548 DLA 24.59 RAL 27.74 RAD 6568.6 VEL 12.816 PTH 2.33 VHP 11.436 DPA 4.50 RAP 12.79 ECC 1.7056
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 25 25 3304.72 -24.48 117.99 271.93 75.30 4 20 30 2704.7 -26.26 109.77
 90.00 23 7 23 4147.09 -1.67 169.03 262.79 61.73 24 16 30 3547.1 -5.44 162.38
 100.00 5 8 13 2973.25 -26.98 94.30 272.63 76.63 5 57 47 2373.3 -28.56 85.85
 100.00 0 11 12 3953.78 .59 153.57 261.54 60.11 1 17 5 3353.8 -3.39 147.05
 110.00 6 57 57 2629.95 -32.76 69.62 274.03 79.65 7 41 47 2029.9 -33.84 60.55
 110.00 0 37 57 3869.85 5.60 144.10 258.42 56.22 1 42 27 3269.9 1.13 137.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7247 TRA-1.6520 TC3 -.0940 BAU .0663 SGT 1716.0 SGR 426.5 SG3 122.8 ST 793.5 SR 407.7 SS 709.7
 RDE -.4648 RRA .0968 RC3 -.0673 FAU .02197 RRT .1650 RRF -.1662 RTF -.8732 CRT .7561 CRS .8463 CST .9880
 FDE .7232 FRA 1.1761 FC3 -.4437 BSP 5446 SGB 1768.2 R23 -.0132 R13 -.8733 LSA 1112.7 MSA 247.4 SSA 16.1
 BDE .8610 BRA 1.6548 BC3 .1157 FSP -327 SGI 1717.5 SG2 420.3 THA 2.50 EL1 857.2 EL2 247.0 ALF 23.28

LAUNCH DATE DEC 20 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 255.198

RL 147.18 LAL .00 LOL 88.18 VL 25.635 GAL 7.89 AZL 86.86 HCA 104.55 SMA 115.77 ECC .30168 INC 3.1431 V1 30.271
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.258 GAP -17.13 AZP 90.79 TAL 160.84 TAP 265.38 RCA 80.85 APO 150.70 V2 35.135
 RC 42.657 GL 12.82 GP 2.27 ZAL 54.54 ZAP 3.43 ETS 223.13 ZAE 169.89 ETE 236.46 ZAC 108.64 ETC 165.80 CLP 2.57

PLANETOCENTRIC CONIC

C3 39.357 VHL 6.274 DLA 25.11 RAL 27.69 RAD 6568.5 VEL 12.678 PTH 2.30 VHP 10.907 DPA 5.36 RAP 14.32 ECC 1.6477
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 16 5 3314.54 -24.31 118.66 270.30 75.01 4 11 20 2714.5 -26.13 110.46
 90.00 23 16 19 4094.04 -3.38 166.07 261.85 61.87 24 24 33 3494.0 -7.11 159.38
 100.00 5 0 39 2977.44 -26.92 94.59 271.04 76.49 5 50 16 2377.4 -28.51 86.15
 100.00 0 18 22 3906.37 -1.02 150.97 260.54 60.12 1 23 29 3306.4 -4.99 144.43
 110.00 6 52 42 2626.86 -32.80 69.39 272.46 79.78 7 36 29 2026.9 -33.86 60.31
 110.00 0 42 48 3829.71 4.08 141.99 257.36 56.03 1 46 38 3229.7 -4.1 135.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7314 TRA-1.6324 TC3 -.0718 BAU .0523 SGT 1779.1 SGR 419.2 SG3 134.2 ST 830.8 SR 402.7 SS 744.4
 RDE -.4401 RRA .0814 RC3 -.0687 FAU .02319 RRT .1892 RRF -.1907 RTF -.8815 CRT .7662 CRS .8531 CST .9884
 FDE .7642 FRA 1.2212 FC3 -.5101 BSP 5662 SGB 1827.9 R23 -.0149 R13 -.8817 LSA 1160.8 MSA 242.3 SSA 16.2
 BDE .8536 BRA 1.6345 BC3 .0994 FSP -361 SGI 1781.0 SG2 411.2 THA 2.70 EL1 891.1 EL2 241.2 ALF 22.08

LAUNCH DATE DEC 20 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 261.959

RL 147.18 LAL .00 LOL 88.18 VL 25.830 GAL 7.49 AZL 86.90 HCA 107.77 SMA 116.80 ECC .28894 INC 3.1009 V1 30.271
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.385 GAP -16.23 AZP 90.95 TAL 160.67 TAP 268.44 RCA 83.05 APO 150.55 V2 35.123
 RC 42.436 GL 13.32 GP 2.44 ZAL 54.54 ZAP 2.66 ETS 248.35 ZAE 171.56 ETE 251.65 ZAC 110.23 ETC 165.59 CLP 1.06

PLANETOCENTRIC CONIC

C3 36.171 VHL 6.014 DLA 25.61 RAL 27.59 RAD 6568.4 VEL 12.552 PTH 2.27 VHP 10.396 DPA 6.22 RAP 15.81 ECC 1.5953
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 6 15 3325.34 -24.11 119.39 268.61 74.69 4 1 40 2725.3 -25.98 111.22
 90.00 23 25 17 4040.58 -5.09 163.07 260.88 62.11 24 32 38 3440.6 -8.78 156.34
 100.00 4 52 48 2981.81 -26.85 94.89 269.40 76.34 5 42 30 2381.8 -28.46 86.46
 100.00 0 25 21 3859.34 -2.61 148.39 259.51 60.21 1 29 40 3259.3 -6.56 141.82
 110.00 6 47 19 2623.54 -32.84 69.14 270.85 79.93 7 31 2 2023.5 -33.88 60.05
 110.00 0 47 20 3790.37 2.58 139.93 256.27 55.90 1 50 30 3190.4 -1.91 133.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7385 TRA-1.6108 TC3 -.0453 BAU .0400 SGT 1842.2 SGR 411.5 SG3 146.9 ST 869.3 SR 397.4 SS 781.2
 RDE -.4166 RRA .0664 RC3 -.0692 FAU .02455 RRT .2168 RRF -.2185 RTF -.8893 CRT .7771 CRS .8603 CST .9889
 FDE .8090 FRA 1.2697 FC3 -.5876 BSP 5881 SGB 1887.6 R23 -.0165 R13 -.8895 LSA 1211.5 MSA 236.5 SSA 16.2
 BDE .8479 BRA 1.6122 BC3 .0827 FSP -399 SGI 1844.5 SG2 401.2 THA 2.91 EL1 926.6 EL2 234.6 ALF 20.97

LAUNCH DATE DEC 20 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 26.012 GAL 7.11 AZL 86.94 MCA 110.99 SMA 117.77 ECC .27696 INC 3.0571 V1 30.271
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.502 GAP -15.37 AZP 91.10 TAL 160.56 TAP 271.55 RCA 85.15 APO 150.39 V2 35.111
 RC 42.394 GL 13.80 GP 2.64 ZAL 54.59 ZAP 2.68 ETS 282.21 ZAE 172.48 ETE 272.01 ZAC 111.79 ETC 165.35 CLP -4.48

PLANETOCENTRIC CONIC
 C3 33.288 VHL 5.770 DLA 26.07 RAL 27.43 RAD 6568.3 VEL 12.436 PTH 2.25 VHP 9.903 DPA 7.08 RAP 17.28 ECC 1.5478
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 54 3337.23 -23.90 120.19 266.88 74.34 3 51 32 2737.2 -25.82 112.05
 90.00 23 34 21 3986.75 -6.79 160.03 259.88 62.44 24 40 47 3386.8 -10.43 153.24
 100.00 4 44 46 2986.28 -26.78 95.21 267.71 76.19 5 34 32 2386.3 -28.41 86.79
 100.00 0 32 6 3812.94 -4.18 145.83 258.45 60.37 1 35 39 3212.9 -8.09 139.23
 110.00 6 41 52 2619.91 -32.88 68.86 269.19 80.08 7 25 32 2019.9 -33.90 59.77
 110.00 0 51 30 3752.07 1.12 137.93 255.16 55.83 1 54 2 3152.1 -3.37 131.72

DIFFERENTIAL CORRECTIONS
 TOE -.7443 TRA-1.5876 TC3 -.0137 BAU .0311 SGT 1904.5 SGR 403.6 SG3 161.1 ST 907.5 SR 392.0 SS 820.5
 RDE -.3944 RRA .0518 RC3 -.0686 FAU .02606 RRT .2475 RRF -.2504 RTF -.8966 CRT .7883 CRS .8680 CST .9893
 FDE .8584 FRA 1.3220 FC3 -.6778 BSP 6129 SGB 1946.8 R23 -.0193 R13 -.8969 LSA 1263.8 MSA 230.4 SSA 16.2
 BDE .8423 BRA 1.5885 BC3 .0699 FSP -442 SG1 1907.3 SG2 390.5 THA 3.13 EL1 962.0 EL2 227.6 ALF 19.97

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 20 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 26.180 GAL 6.75 AZL 86.99 MCA 114.21 SMA 118.70 ECC .26571 INC 3.0114 V1 30.271
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.610 GAP -14.53 AZP 91.24 TAL 160.48 TAP 274.69 RCA 87.16 APO 150.24 V2 35.099
 RC 42.534 GL 14.28 GP 2.85 ZAL 54.69 ZAP 3.52 ETS 307.68 ZAE 172.37 ETE 294.30 ZAC 113.31 ETC 165.07 CLP -2.06

PLANETOCENTRIC CONIC
 C3 30.680 VHL 5.539 DLA 26.50 RAL 27.21 RAD 6568.2 VEL 12.331 PTH 2.22 VHP 9.428 DPA 7.96 RAP 18.70 ECC 1.5049
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 5 3350.26 -23.66 121.07 265.09 73.97 3 40 55 2750.3 -25.63 112.96
 90.00 23 43 29 3932.65 -8.48 156.96 258.87 62.88 24 49 1 3332.7 -12.05 150.10
 100.00 4 36 37 2990.67 -26.70 95.51 266.00 76.04 5 26 28 2390.7 -28.36 87.10
 100.00 0 38 33 3767.47 -5.70 143.32 257.37 60.61 1 41 21 3167.5 -9.58 136.67
 110.00 6 36 25 2615.85 -32.93 68.55 267.50 80.26 7 20 0 2015.8 -33.92 59.46
 110.00 0 55 15 3715.06 -1.30 136.00 254.02 55.82 1 57 10 3115.1 -4.78 129.78

DIFFERENTIAL CORRECTIONS
 TOE -.7493 TRA-1.5607 TC3 .0257 BAU .0292 SGT 1963.7 SGR 395.7 SG3 176.7 ST 945.4 SR 386.6 SS 861.6
 RDE -.3735 RRA .0374 RC3 -.0665 FAU .02779 RRT .2823 RRF -.2863 RTF -.9038 CRT .8002 CRS .8760 CST .9898
 FDE .9119 FRA 1.3779 FC3 -.7841 BSP 6402 SGB 2003.2 R23 -.0222 R13 -.9041 LSA 1317.3 MSA 223.7 SSA 16.2
 BDE .8373 BRA 1.5611 BC3 .0712 FSP -490 SG1 1967.0 SG2 379.0 THA 3.38 EL1 997.5 EL2 219.8 ALF 19.08

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 20 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 26.336 GAL 6.41 AZL 87.04 MCA 117.43 SMA 119.57 ECC .25517 INC 2.9634 V1 30.271
 RP 108.01 LAP 2.63 LOP 205.64 VP 36.709 GAP -13.72 AZP 91.37 TAL 160.45 TAP 277.88 RCA 89.06 APO 150.08 V2 35.086
 RC 42.853 GL 14.73 GP 3.10 ZAL 54.84 ZAP 4.80 ETS 321.79 ZAE 171.34 ETE 313.20 ZAC 114.77 ETC 164.75 CLP -3.67

PLANETOCENTRIC CONIC
 C3 28.321 VHL 5.322 DLA 26.90 RAL 26.95 RAD 6568.1 VEL 12.235 PTH 2.20 VHP 8.969 DPA 8.83 RAP 20.08 ECC 1.4661
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 33 48 3364.44 -23.39 122.02 263.28 73.56 3 29 52 2764.4 -25.42 113.94
 90.00 23 52 42 3878.41 -10.15 153.84 257.85 63.42 24 57 20 3278.4 -13.64 146.90
 100.00 4 28 29 2994.74 -26.64 95.80 264.25 75.91 5 18 23 2394.7 -28.31 87.40
 100.00 0 44 38 3723.35 -7.17 140.87 256.25 60.90 1 46 41 3123.3 -11.00 134.17
 110.00 6 31 3 2611.21 -32.98 68.20 265.78 80.46 7 14 34 2011.2 -33.95 59.10
 110.00 0 58 33 3679.63 -1.65 134.15 252.85 55.85 1 59 53 3079.6 -6.12 127.92

DIFFERENTIAL CORRECTIONS
 TOE -.7559 TRA-1.5347 TC3 .0674 BAU .0349 SGT 2024.9 SGR 388.2 SG3 194.1 ST 985.5 SR 381.5 SS 906.1
 RDE -.3542 RRA .0232 RC3 -.0627 FAU .02968 RRT .3228 RRF -.3277 RTF -.9102 CRT .8131 CRS .8845 CST .9904
 FDE .9717 FRA 1.4398 FC3 -.9074 BSP 6614 SGB 2061.8 R23 -.0254 R13 -.9105 LSA 1375.0 MSA 216.5 SSA 16.2
 BDE .8348 BRA 1.5349 BC3 .0920 FSP -543 SG1 2028.9 SG2 366.7 THA 3.66 EL1 1035.4 EL2 211.4 ALF 18.26

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 20 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 26.480 GAL 6.09 AZL 87.09 MCA 120.64 SMA 120.40 ECC .24530 INC 2.9126 V1 30.271
 RP 108.05 LAP 2.51 LOP 208.85 VP 36.800 GAP -12.94 AZP 91.49 TAL 160.46 TAP 281.10 RCA 90.86 APO 149.93 V2 35.073
 RC 43.347 GL 15.16 GP 3.39 ZAL 55.04 ZAP 6.30 ETS 329.66 ZAE 169.73 ETE 326.90 ZAC 116.17 ETC 164.39 CLP -5.32

PLANETOCENTRIC CONIC
 C3 26.188 VHL 5.117 DLA 27.25 RAL 26.65 RAD 6568.1 VEL 12.148 PTH 2.18 VHP 8.528 DPA 9.72 RAP 21.41 ECC 1.4310
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 22 8 3379.67 -23.09 123.04 261.43 73.14 3 18 28 2779.7 -25.18 114.99
 90.00 0 5 54 3824.24 -11.78 150.70 256.80 64.06 1 9 38 3224.2 -15.18 143.67
 100.00 4 20 31 2998.05 -26.58 96.03 262.50 75.80 5 10 29 2398.1 -28.27 87.63
 100.00 0 50 12 3681.09 -8.56 138.50 255.11 61.25 1 51 33 3081.1 -12.34 131.74
 110.00 6 25 52 2605.78 -33.04 67.79 264.05 80.70 7 9 18 2005.8 -33.97 58.68
 110.00 1 1 20 3646.12 -2.93 132.40 251.65 55.93 2 2 6 3046.1 -7.38 126.14

DIFFERENTIAL CORRECTIONS
 TOE -.7619 TRA-1.5075 TC3 .1143 BAU .0447 SGT 2084.7 SGR 381.4 SG3 213.6 ST 1025.7 SR 376.7 SS 953.4
 RDE -.3365 RRA .0090 RC3 -.0569 FAU .03180 RRT .3687 RRF -.3750 RTF -.9161 CRT .8266 CRS .8935 CST .9910
 FDE 1.0374 FRA 1.5075 FC3 -1.0512 BSP 6827 SGB 2119.3 R23 -.0293 R13 -.9165 LSA 1434.9 MSA 209.0 SSA 16.1
 BDE .8329 BRA 1.5076 BC3 .1277 FSP -602 SG1 2089.6 SG2 353.7 THA 3.97 EL1 1073.8 EL2 202.5 ALF 17.53

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 20 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 295.755

RL 147.18 LAL .00 LOL 88.18 VL 26.613 GAL 5.79 AZL 87.14 MCA 123.85 SMA 121.17 ECC .23610 INC 2.8582 VI 30.271
 RP 108.09 LAP 2.37 LOP 212.07 VP 36.884 GAP -12.19 AZP 91.59 TAL 160.51 TAP 284.36 RCA 92.56 APO 149.78 V2 35.060
 RC 44.011 GL 15.55 GP 3.71 ZAL 55.28 ZAP 7.94 ETS 334.40 ZAE 167.87 ETE 336.53 ZAC 117.50 ETC 163.97 CLP -7.03

PLANETOCENTRIC CONIC

C3 24.259 VHL 4.925 OLA 27.56 RAL 26.32 RAD 6568.0 VEL 12.068 PTH 2.16 VHP 8.102 DPA 10.63 RAP 22.68 ECC 1.3992
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 10 14 3395.61 -22.77 124.10 259.58 72.70 3 6 50 2795.6 -24.93 116.09
 90.00 0 15 7 3770.57 -13.36 147.55 255.73 64.80 1 17 57 3170.6 -16.65 140.41
 100.00 4 12 57 3000.02 -26.55 96.16 260.75 75.73 5 2 57 2400.0 -28.25 87.77
 100.00 0 55 5 3641.40 -9.85 136.26 253.93 61.64 1 55 46 3041.4 -13.57 129.44
 110.00 6 21 1 2599.27 -33.11 67.30 262.31 80.98 7 4 20 1999.3 -34.00 58.17
 110.00 1 3 31 3614.91 -4.12 130.77 250.44 56.04 2 3 46 3014.9 -8.55 124.48

DIFFERENTIAL CORRECTIONS

TDE -.7670 TRA-1.4793 TC3 .1667 BAU .0563
 RDE -.3203 RRA -.0054 RC3 -.0484 FAU .03417
 FDE 1.1096 FRA 1.5825 FC3-1.2194 BSP 7029
 BDE .8312 BRA 1.4793 BC3 .1736 FSP -668

MID-COURSE EXECUTION ACCURACY

SGT 2142.7 SGR 375.7 SG3 235.4
 RRT .4204 RRF -.4284 RTF -.9217
 SGB 2175.4 R23 -.0340 R13 -.9222
 SGI 2148.6 SG2 340.0 THA 4.33

ORBIT DETERMINATION ACCURACY

ST 1065.5 SR 372.6 SS 1003.6
 CRT .8405 CRS .9027 CST .9915
 LSA 1496.9 MSA 201.4 SSA 16.0
 EL1 1112.1 EL2 193.4 ALF 16.91

LAUNCH DATE DEC 20 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 302.495

RL 147.18 LAL .00 LOL 88.18 VL 26.736 GAL 5.50 AZL 87.20 MCA 127.06 SMA 121.90 ECC .22753 INC 2.7998 VI 30.271
 RP 108.13 LAP 2.23 LOP 215.28 VP 36.960 GAP -11.47 AZP 91.69 TAL 160.59 TAP 287.66 RCA 94.17 APO 149.64 V2 35.047
 RC 44.836 GL 15.90 GP 4.09 ZAL 55.55 ZAP 9.69 ETS 337.43 ZAE 165.96 ETE 343.52 ZAC 118.75 ETC 163.51 CLP -8.79

PLANETOCENTRIC CONIC

C3 22.514 VHL 4.745 OLA 27.81 RAL 25.96 RAD 6567.9 VEL 11.996 PTH 2.14 VHP 7.693 DPA 11.55 RAP 23.87 ECC 1.3705
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 58 25 3411.40 -22.45 125.14 257.73 72.27 2 55 17 2811.4 -24.66 117.17
 90.00 0 24 2 3718.34 -14.85 144.44 254.64 65.61 1 26 0 3118.3 -18.02 137.20
 100.00 4 6 6 2999.78 -26.55 96.15 259.02 75.74 4 56 6 2399.8 -28.25 87.76
 100.00 0 59 2 3605.18 -11.02 134.20 252.71 62.04 1 59 7 3005.2 -14.67 127.32
 110.00 6 16 37 2581.32 -33.20 66.68 260.57 81.33 6 59 48 1991.3 -34.04 57.55
 110.00 1 5 1 3586.42 -5.20 129.27 249.20 56.17 2 4 47 2986.4 -9.61 122.96

DIFFERENTIAL CORRECTIONS

TDE -.7711 TRA-1.4494 TC3 .2247 BAU .0685
 RDE -.3059 RRA -.0202 RC3 -.0368 FAU .03683
 FDE 1.1888 FRA 1.6650 FC3-1.4164 BSP 7221
 BDE .8296 BRA 1.4496 BC3 .2277 FSP -743

MID-COURSE EXECUTION ACCURACY

SGT 2197.2 SGR 372.1 SG3 259.7
 RRT .4782 RRF -.4881 RTF -.9268
 SGB 2228.5 R23 -.0398 R13 -.9274
 SGI 2204.6 SG2 325.7 THA 4.73

ORBIT DETERMINATION ACCURACY

ST 1104.3 SR 369.5 SS 1056.7
 CRT .8550 CRS .9123 CST .9921
 LSA 1560.4 MSA 193.5 SSA 15.9
 EL1 1149.8 EL2 184.1 ALF 16.40

LAUNCH DATE DEC 20 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 309.223

RL 147.18 LAL .00 LOL 88.18 VL 26.849 GAL 5.23 AZL 87.26 MCA 130.27 SMA 122.58 ECC .21957 INC 2.7361 VI 30.271
 RP 108.17 LAP 2.09 LOP 218.48 VP 37.029 GAP -10.76 AZP 91.77 TAL 160.71 TAP 290.98 RCA 95.67 APO 149.50 V2 35.033
 RC 45.818 GL 16.20 GP 4.53 ZAL 55.84 ZAP 11.53 ETS 339.41 ZAE 164.11 ETE 348.88 ZAC 119.91 ETC 162.98 CLP -10.62

PLANETOCENTRIC CONIC

C3 20.935 VHL 4.575 OLA 27.99 RAL 25.57 RAD 6567.9 VEL 11.930 PTH 2.12 VHP 7.299 DPA 12.50 RAP 24.98 ECC 1.3445
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 47 23 3424.91 -22.16 126.03 255.91 71.91 2 44 28 2824.9 -24.43 118.10
 90.00 0 32 1 3669.72 -16.20 141.50 253.51 66.45 1 33 11 3069.7 -19.25 134.15
 100.00 4 0 22 2996.25 -26.61 95.90 257.32 75.86 4 50 18 2396.2 -28.29 87.50
 100.00 1 1 44 3573.62 -12.02 132.40 251.45 62.42 2 1 18 2973.6 -15.62 125.45
 110.00 6 12 53 2581.48 -33.29 65.94 258.84 81.77 6 55 54 1981.5 -34.07 56.79
 110.00 1 5 43 3561.14 -6.16 127.94 247.93 56.31 2 5 4 2961.1 -10.54 121.59

DIFFERENTIAL CORRECTIONS

TDE -.7735 TRA-1.4189 TC3 .2868 BAU .0805
 RDE -.2934 RRA -.0355 RC3 -.0214 FAU .03980
 FDE 1.2760 FRA 1.7573 FC3-1.6459 BSP 7399
 BDE .8272 BRA 1.4193 BC3 .2876 FSP -825

MID-COURSE EXECUTION ACCURACY

SGT 2248.5 SGR 371.4 SG3 287.0
 RRT .5415 RRF -.5538 RTF -.9316
 SGB 2279.0 R23 -.0471 R13 -.9322
 SGI 2257.7 SG2 311.0 THA 5.21

ORBIT DETERMINATION ACCURACY

ST 1141.3 SR 367.8 SS 1112.9
 CRT .8697 CRS .9221 CST .9927
 LSA 1625.3 MSA 185.5 SSA 15.7
 EL1 1186.3 EL2 174.7 ALF 16.01

LAUNCH DATE DEC 20 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 315.938

RL 147.18 LAL .00 LOL 88.18 VL 26.953 GAL 4.97 AZL 87.33 MCA 133.48 SMA 123.22 ECC .21219 INC 2.6662 VI 30.271
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.092 GAP -10.08 AZP 91.84 TAL 160.86 TAP 294.33 RCA 97.07 APO 149.37 V2 35.020
 RC 46.944 GL 16.43 GP 5.04 ZAL 56.16 ZAP 13.48 ETS 340.72 ZAE 162.38 ETE 353.26 ZAC 120.96 ETC 162.39 CLP -12.52

PLANETOCENTRIC CONIC

C3 19.504 VHL 4.416 OLA 28.10 RAL 25.19 RAD 6567.8 VEL 11.870 PTH 2.11 VHP 6.921 DPA 13.49 RAP 25.99 ECC 1.3210
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 38 48 3430.98 -22.04 126.43 254.18 71.75 2 35 59 2831.0 -24.33 118.51
 90.00 0 37 31 3829.90 -17.26 139.07 252.28 67.20 1 38 1 3029.9 -20.21 131.63
 100.00 3 56 11 2988.03 -26.75 95.33 255.67 76.13 4 45 59 2388.0 -28.39 86.91
 100.00 1 2 48 3548.08 -12.82 130.92 250.13 62.76 2 1 56 2948.1 -16.37 123.93
 110.00 6 9 59 2569.27 -33.41 65.00 257.13 82.31 6 52 48 1969.3 -34.11 55.83
 110.00 1 5 30 3539.61 -6.97 126.80 246.65 56.45 2 4 30 2939.6 -11.33 120.42

DIFFERENTIAL CORRECTIONS

TDE -.7709 TRA-1.3846 TC3 .3586 BAU .0935
 RDE -.2828 RRA -.0518 RC3 -.0009 FAU .04322
 FDE 1.3687 FRA 1.8584 FC3-1.9183 BSP 7624
 BDE .8211 BRA 1.3856 BC3 .3586 FSP -922

MID-COURSE EXECUTION ACCURACY

SGT 2290.8 SGR 374.7 SG3 317.4
 RRT .6078 RRF -.6234 RTF -.9362
 SGB 2321.2 R23 -.0563 R13 -.9371
 SGI 2302.2 SG2 296.1 THA 5.77

ORBIT DETERMINATION ACCURACY

ST 1172.0 SR 367.6 SS 1170.0
 CRT .8841 CRS .9318 CST .9932
 LSA 1686.9 MSA 177.7 SSA 15.5
 EL1 1217.1 EL2 165.4 ALF 15.80

LAUNCH DATE DEC 20 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 322.638

RL 147.18 LAL .00 LOL 88.18 VL 27.048 GAL 4.74 AZL 87.41 MCA 136.68 SMA 123.81 ECC .20538 INC 2.5885 V1 30.271
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.149 GAP -9.42 AZP 91.88 TAL 161.03 TAP 297.71 RCA 98.38 APO 149.24 V2 35.007
 RC 48.205 GL 16.58 GP 5.65 ZAL 56.49 ZAP 15.55 ETS 341.54 ZAE 160.83 ETE 357.05 ZAC 121.88 ETC 161.73 CLP -14.51

PLANETOCENTRIC CONIC

C3 18.207 VHL 4.267 DLA 28.12 RAL 24.80 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 6.560 DPA 14.52 RAP 26.89 ECC 1.2996
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 35 37 3420.16 -22.26 125.72 252.62 72.04 2 32 37 2820.2 -24.51 117.77
 90.00 0 37 38 3608.33 -17.83 137.74 250.89 67.63 1 37 47 3008.3 -20.71 130.25
 100.00 3 54 7 2973.64 -26.98 94.32 254.08 76.61 4 43 41 2373.6 -28.55 85.87
 100.00 1 1 49 3530.08 -13.38 129.88 248.77 63.02 2 0 39 2930.1 -16.89 122.85
 110.00 6 8 11 2554.03 -33.54 63.83 255.44 82.99 6 50 45 1954.0 -34.15 54.64
 110.00 1 4 15 3522.46 -7.61 125.89 245.36 56.57 2 2 57 2922.5 -11.96 119.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7683 TRA-1.3519 TC3 .4298 BAU .1048
 RDE -.2746 RRA -.0696 RC3 .0253 FAU .04698
 FDE 1.4709 FRA 1.9738 FC3-2.2338 BSP 7768
 BOE .8159 BRA 1.3537 BC3 .4303 FSP -1027

SGT 2331.4 SGR 384.2 SG3 351.7
 RRT .6768 RRF -.6955 RTF -.9403
 SGB 2362.8 R23 -.0675 R13 -.9413
 SG1 2346.1 SG2 281.1 THA 6.46

ST 1202.4 SR 370.1 SS 1230.9
 CRT .8989 CRS .9417 CST .9937
 LSA 1751.8 MSA 169.7 SSA 15.2
 EL1 1248.3 EL2 156.2 ALF 15.72

LAUNCH DATE DEC 20 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 329.322

RL 147.18 LAL .00 LOL 88.18 VL 27.135 GAL 4.51 AZL 87.50 MCA 139.88 SMA 124.36 ECC .19910 INC 2.5010 V1 30.271
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.200 GAP -8.79 AZP 91.91 TAL 161.23 TAP 301.10 RCA 99.60 APO 149.12 V2 34.994
 RC 49.590 GL 16.62 GP 6.37 ZAL 56.82 ZAP 17.75 ETS 341.99 ZAE 159.46 ETE .55 ZAC 122.66 ETC 160.98 CLP -16.60

PLANETOCENTRIC CONIC

C3 17.029 VHL 4.127 DLA 28.04 RAL 24.44 RAD 6567.7 VEL 11.765 PTH 2.08 VHP 6.214 DPA 15.62 RAP 27.65 ECC 1.2803
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 39 47 3386.36 -22.96 123.49 251.29 72.95 2 36 13 2786.4 -25.08 115.46
 90.00 0 30 35 3611.06 -17.76 137.80 249.30 67.57 1 30 46 3011.1 -20.65 130.42
 100.00 3 54 38 2951.62 -27.32 92.77 252.56 77.36 4 43 49 2351.6 -28.78 84.28
 100.00 0 58 25 3521.03 -13.66 129.35 247.35 63.15 1 57 6 2921.0 -17.15 122.30
 110.00 6 7 44 2555.04 -33.69 62.37 253.79 83.84 6 49 59 1935.0 -34.18 53.16
 110.00 -1 1 48 3510.38 -8.07 125.25 244.05 56.67 2 0 19 2910.4 -12.40 118.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7620 TRA-1.3183 TC3 .5028 BAU .1152
 RDE -.2689 RRA -.0894 RC3 .0590 FAU .05117
 FDE 1.5802 FRA 2.1039 FC3-2.6015 BSP 7894
 BOE .8081 BRA 1.3214 BC3 .5062 FSP -1145

SGT 2364.9 SGR 402.0 SG3 390.0
 RRT .7437 RRF -.7657 RTF -.9439
 SGB 2398.8 R23 -.0818 R13 -.9451
 SG1 2384.0 SG2 266.6 THA 7.30

ST 1227.5 SR 375.8 SS 1293.5
 CRT .9135 CRS .9513 CST .9942
 LSA 1815.1 MSA 161.7 SSA 14.9
 EL1 1275.2 EL2 147.2 ALF 15.84

LAUNCH DATE DEC 20 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 335.989

RL 147.18 LAL .00 LOL 88.18 VL 27.215 GAL 4.31 AZL 87.60 MCA 143.08 SMA 124.87 ECC .19333 INC 2.4011 V1 30.271
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.246 GAP -8.17 AZP 91.92 TAL 161.44 TAP 304.51 RCA 100.73 APO 149.01 V2 34.980
 RC 51.091 GL 16.54 GP 7.24 ZAL 57.14 ZAP 20.09 ETS 342.13 ZAE 158.29 ETE 3.99 ZAC 123.26 ETC 160.15 CLP -18.79

PLANETOCENTRIC CONIC

C3 15.955 VHL 3.994 DLA 27.83 RAL 24.11 RAD 6567.6 VEL 11.719 PTH 2.06 VHP 5.885 DPA 16.81 RAP 28.25 ECC 1.2626
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 49 45 3334.68 -23.95 120.02 250.11 74.42 2 45 20 2734.7 -25.85 111.87
 90.00 0 18 1 3632.94 -17.18 139.25 247.59 67.14 1 18 34 3032.9 -20.13 131.82
 100.00 3 58 7 2920.83 -27.76 90.59 251.13 78.43 4 46 48 2320.8 -29.07 82.03
 100.00 0 52 19 3522.02 -13.63 129.41 245.88 63.13 1 51 1 2922.0 -17.12 122.36
 110.00 6 8 56 2511.43 -33.85 60.55 252.17 84.91 6 50 48 1911.4 -34.18 51.32
 110.00 0 58 0 3504.18 -8.30 124.92 242.74 56.72 1 56 24 2904.2 -12.62 118.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7512 TRA-1.2833 TC3 .5778 BAU .1252
 RDE -.2661 RRA -.1122 RC3 .1024 FAU .05587
 FDE 1.6950 FRA 2.2507 FC3-3.0313 BSP 8009
 BOE .7969 BRA 1.2882 BC3 .5868 FSP -1277

SGT 2389.0 SGR 430.8 SG3 432.9
 RRT .8046 RRF -.8297 RTF -.9472
 SGB 2427.5 R23 -.0994 R13 -.9488
 SG1 2414.3 SG2 253.1 THA 8.35

ST 1245.5 SR 385.6 SS 1356.5
 CRT .9275 CRS .9605 CST .9947
 LSA 1875.1 MSA 153.7 SSA 14.6
 EL1 1296.4 EL2 138.5 ALF 16.21

LAUNCH DATE DEC 20 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 342.637

RL 147.18 LAL .00 LOL 88.18 VL 27.288 GAL 4.12 AZL 87.71 MCA 146.27 SMA 125.34 ECC .18805 INC 2.2854 V1 30.271
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.287 GAP -7.57 AZP 91.90 TAL 161.66 TAP 307.93 RCA 101.77 APO 148.91 V2 34.967
 RC 52.697 GL 16.29 GP 8.30 ZAL 57.44 ZAP 22.61 ETS 341.99 ZAE 157.32 ETE 7.57 ZAC 123.65 ETC 159.20 CLP -21.11

PLANETOCENTRIC CONIC

C3 14.973 VHL 3.869 DLA 27.47 RAL 23.85 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 5.574 DPA 18.13 RAP 28.66 ECC 1.2464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 3 33 3271.59 -25.03 115.72 249.00 76.31 2 58 5 2671.6 -26.67 107.43
 90.00 0 2 6 3667.39 -16.26 141.36 245.85 66.49 1 3 13 3067.4 -19.30 134.01
 100.00 4 4 54 2880.41 -28.27 87.70 249.77 79.87 4 52 54 2280.4 -29.38 79.07
 100.00 0 43 26 3533.80 -13.26 130.09 244.39 62.96 1 42 20 2933.8 -16.78 123.07
 110.00 6 12 10 2482.16 -34.00 58.27 250.58 86.25 6 53 32 1882.2 -34.15 49.03
 110.00 0 52 40 3504.82 -8.27 124.95 241.44 56.71 1 51 5 2904.8 -12.60 118.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7532 TRA-1.2460 TC3 .6564 BAU .1352
 RDE -.2665 RRA -.1390 RC3 .1589 FAU .06117
 FDE 1.8107 FRA 2.4154 FC3-3.5368 BSP 8129
 BOE .7802 BRA 1.2537 BC3 .6754 FSP -1428

SGT 2400.2 SGR 473.9 SG3 480.5
 RRT .8555 RRF -.8838 RTF -.9502
 SGB 2446.5 R23 -.1208 R13 -.9524
 SG1 2434.6 SG2 241.9 THA 9.68

ST 1252.3 SR 400.7 SS 1416.9
 CRT .9404 CRS .9690 CST .9951
 LSA 1927.4 MSA 145.7 SSA 14.2
 EL1 1308.3 EL2 130.4 ALF 16.92

LAUNCH DATE DEC 20 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 349.266

RL 147.18 LAL .00 LOL 88.18 VL 27.354 GAL 3.94 AZL 87.85 MCA 149.46 SMA 125.76 ECC .18324 INC 2.1487 V1 30.271
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.323 GAP -6.99 AZP 91.85 TAL 161.90 TAP 311.36 RCA 102.72 APO 148.81 V2 34.954
 RC 54.398 GL 15.83 GP 9.61 ZAL 57.71 ZAP 25.34 ETS 341.59 ZAE 156.51 ETE 11.50 ZAC 123.79 ETC 158.12 CLP -23.56

PLANETOCENTRIC CONIC

C3 14.070 VHL 3.751 DLA 26.91 RAL 23.67 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 5.281 DPA 19.62 RAP 28.83 ECC 1.2316
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 20 25 3199.67 -26.10 110.72 247.93 78.60 3 13 45 2599.7 -27.41 102.30
 90.00 23 39 54 3711.70 -15.04 144.04 244.14 65.72 24 41 45 3111.7 -18.19 136.78
 100.00 4 15 12 2829.65 -28.83 84.03 248.46 81.73 5 2 21 2229.7 -29.67 75.32
 100.00 0 31 44 3556.95 -12.54 131.43 242.89 62.64 1 31 1 2956.9 -16.11 124.46
 110.00 6 17 50 2445.89 -34.13 55.45 249.03 87.92 6 58 36 1845.9 -34.04 46.20
 110.00 0 45 35 3513.48 -7.95 125.41 240.16 56.64 1 44 8 2913.5 -12.28 119.00

DIFFERENTIAL CORRECTIONS

TDE -.7110 TRA-1.2092 TC3 .7274 BAU .1436
 RDE -.2708 RRA -.1717 RC3 .2321 FAU .06692
 FDE 1.9258 FRA 2.6033 FC3-4.1179 BSP 8175
 BOE .7808 BRA 1.2213 BC3 .7635 FSP -1592

MID-COURSE EXECUTION ACCURACY

SGT 2401.6 SGR 536.6 SG3 533.2
 RRT .8951 RRF -.9260 RTF -.9526
 SGB 2460.8 R23 -.1461 R13 -.9556
 SG1 2449.6 SGT 234.6 TMA 11.42

ORBIT DETERMINATION ACCURACY

ST 1251.3 SR 423.0 SS 1475.0
 CRT .9525 CRS .9765 CST .9956
 LSA 1975.2 MSA 137.2 SSA 13.8
 EL1 1315.2 EL2 122.6 ALF 18.01

LAUNCH DATE DEC 20 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 355.875

RL 147.18 LAL .00 LOL 88.18 VL 27.414 GAL 3.78 AZL 88.02 MCA 152.65 SMA 126.16 ECC .17887 INC 1.9835 V1 30.271
 RP 108.45 LAP .91 LOP 240.85 VP 37.355 GAP -6.43 AZP 91.76 TAL 162.13 TAP 314.79 RCA 103.59 APO 148.72 V2 34.942
 RC 56.186 GL 15.09 GP 11.25 ZAL 57.93 ZAP 28.32 ETS 340.91 ZAE 155.81 ETE 16.02 ZAC 123.62 ETC 156.90 CLP -26.16

PLANETOCENTRIC CONIC

C3 13.234 VHL 3.638 DLA 26.09 RAL 23.62 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 5.008 DPA 21.35 RAP 28.71 ECC 1.2178
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 40 23 3118.73 -27.06 104.99 246.87 81.31 3 32 21 2518.7 -27.98 96.45
 90.00 23 19 31 3765.89 -13.50 147.27 242.48 64.87 24 22 17 3165.9 -16.77 140.13
 100.00 4 29 20 2767.49 -29.35 79.48 247.20 84.06 5 15 27 2167.5 -29.86 70.71
 100.00 0 17 11 3592.36 -11.43 133.47 241.43 62.19 1 17 3 2992.4 -15.06 126.57
 110.00 6 26 31 2400.83 -34.18 51.93 247.50 90.00 7 6 32 1800.8 -33.81 42.71
 110.00 0 36 29 3531.79 -7.26 126.39 238.93 56.51 1 35 21 2931.8 -11.62 120.00

DIFFERENTIAL CORRECTIONS

TDE -.6785 TRA-1.1690 TC3 .8002 BAU .1531
 RDE -.2791 RRA -.2126 RC3 .3296 FAU .07332
 FDE 2.0259 FRA 2.8123 FC3-4.7968 BSP 8249
 BOE .7337 BRA 1.1882 BC3 .8654 FSP -1776

MID-COURSE EXECUTION ACCURACY

SGT 2384.0 SGR 624.3 SG3 590.3
 RRT .9229 RRF -.9561 RTF -.9548
 SGB 2464.4 R23 -.1723 R13 -.9590
 SG1 2453.3 SGT 233.5 TMA 13.71

ORBIT DETERMINATION ACCURACY

ST 1233.1 SR 453.7 SS 1522.6
 CRT .9629 CRS .9828 CST .9960
 LSA 2006.9 MSA 128.4 SSA 13.3
 EL1 1308.8 EL2 115.3 ALF 19.67

LAUNCH DATE DEC 20 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 362.464

RL 147.18 LAL .00 LOL 88.18 VL 27.468 GAL 3.64 AZL 88.22 MCA 155.84 SMA 126.51 ECC .17492 INC 1.7785 V1 30.271
 RP 108.49 LAP .73 LOP 244.03 VP 37.383 GAP -5.89 AZP 91.62 TAL 162.37 TAP 318.21 RCA 104.38 APO 148.64 V2 34.929
 RC 58.051 GL 13.95 GP 13.34 ZAL 58.09 ZAP 31.62 ETS 339.94 ZAE 155.12 ETE 21.41 ZAC 123.06 ETC 155.49 CLP -28.93

PLANETOCENTRIC CONIC

C3 12.454 VHL 3.529 DLA 24.91 RAL 23.74 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 4.760 DPA 23.43 RAP 28.22 ECC 1.2050
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 4 2 3026.73 -27.83 98.37 245.79 84.55 3 54 29 2426.7 -28.29 89.74
 90.00 22 56 49 3831.79 -11.56 151.14 240.94 63.97 24 0 41 3231.8 -14.97 144.12
 100.00 4 47 51 2692.00 -29.75 73.91 245.96 86.97 5 32 43 2092.0 -29.86 65.10
 100.00 23 55 41 3641.76 -9.84 136.28 240.04 61.63 24 56 22 3041.8 -13.56 129.46
 110.00 6 38 57 2344.41 -34.10 47.53 245.97 92.60 7 18 2 1744.4 -33.36 38.36
 110.00 0 25 0 3562.11 -6.12 127.99 237.78 56.30 1 24 22 2962.1 -10.51 121.65

DIFFERENTIAL CORRECTIONS

TDE -.6372 TRA-1.1275 TC3 .8639 BAU .1630
 RDE -.2921 RRA -.2657 RC3 .4604 FAU .08007
 FDE 2.0993 FRA 3.0454 FC3-5.5662 BSP 8311
 BOE .7010 BRA 1.1584 BC3 .9790 FSP -1975

MID-COURSE EXECUTION ACCURACY

SGT 2348.5 SGR 746.2 SG3 651.0
 RRT .9409 RRF -.9758 RTF -.9564
 SGB 2464.1 R23 -.1955 R13 -.9627
 SG1 2452.2 SGT 242.1 TMA 16.81

ORBIT DETERMINATION ACCURACY

ST 1198.8 SR 495.4 SS 1555.6
 CRT .9720 CRS .9879 CST .9965
 LSA 2022.0 MSA 118.4 SSA 12.9
 EL1 1292.6 EL2 108.0 ALF 22.04

LAUNCH DATE DEC 20 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 369.031

RL 147.18 LAL .00 LOL 88.18 VL 27.516 GAL 3.51 AZL 88.48 MCA 159.03 SMA 126.83 ECC .17137 INC 1.5156 V1 30.271
 RP 108.53 LAP .54 LOP 247.21 VP 37.407 GAP -5.36 AZP 91.42 TAL 162.59 TAP 321.61 RCA 105.10 APO 148.57 V2 34.917
 RC 59.985 GL 12.25 GP 16.07 ZAL 58.16 ZAP 35.32 ETS 338.64 ZAE 154.23 ETE 27.98 ZAC 121.98 ETC 153.86 CLP -31.88

PLANETOCENTRIC CONIC

C3 11.721 VHL 3.424 DLA 23.21 RAL 24.10 RAD 6567.4 VEL 11.537 PTH 2.01 VHP 4.544 DPA 26.03 RAP 27.24 ECC 1.1929
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 32 2919.61 -28.28 90.57 244.69 88.43 4 21 12 2319.6 -28.20 81.90
 90.00 22 31 12 3913.33 -9.08 155.85 239.57 63.06 23 36 26 3313.3 -12.62 148.96
 100.00 5 11 48 2599.58 -29.89 67.04 244.71 90.58 5 55 7 1999.6 -29.49 58.26
 100.00 23 34 38 3708.59 -7.66 140.04 238.81 61.02 24 36 27 3108.6 -11.47 133.32
 110.00 6 56 17 2272.67 -33.73 41.96 244.45 95.88 7 34 10 1672.7 -32.55 32.92
 110.00 0 10 34 3608.27 -4.37 130.42 236.79 56.06 1 10 42 3008.3 -8.80 124.13

DIFFERENTIAL CORRECTIONS

TDE -.5861 TRA-1.0847 TC3 .9143 BAU .1749
 RDE -.3096 RRA -.3373 RC3 .6400 FAU .08688
 FDE 2.1209 FRA 3.2988 FC3-6.4169 BSP 8357
 BOE .6629 BRA 1.1359 BC3 1.1161 FSP -2176

MID-COURSE EXECUTION ACCURACY

SGT 2292.4 SGR 915.2 SG3 712.4
 RRT .9511 RRF -.9877 RTF -.9574
 SGB 2468.4 R23 -.2098 R13 -.9669
 SG1 2454.2 SGT 263.9 TMA 21.05

ORBIT DETERMINATION ACCURACY

ST 1146.1 SR 550.0 SS 1563.5
 CRT .9797 CRS .9918 CST .9972
 LSA 2012.3 MSA 106.2 SSA 12.8
 EL1 1267.4 EL2 99.7 ALF 25.35

LAUNCH DATE DEC 20 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.559 GAL 3.39 AZL 88.84 MCA 162.21 SMA 127.12 ECC .16820 INC 1.1639 V1 30.271
 RP 108.57 LAP .36 LOP 250.39 VP 37.428 GAP -4.85 AZP 91.11 TAL 162.80 TAP 325.01 RCA 105.74 APO 148.51 V2 34.906
 RC 61.981 GL 9.69 GP 19.73 ZAL 58.15 ZAP 39.56 ETS 336.96 ZAE 152.77 ETE 35.96 ZAC 120.21 ETC 151.96 CLP -35.02

PLANETOCENTRIC CONIC

C3 11.034 VHL 3.322 DLA 20.71 RAL 24.82 RAD 6567.4 VEL 11.507 PTH 2.00 VHP 4.370 DPA 29.38 RAP 25.58 ECC 1.1816
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 7 57 2790.05 -28.15 81.10 243.55 93.17 4 54 27 2190.1 -27.42 72.51
 90.00 22 1 31 4017.82 -5.81 161.79 238.50 62.24 23 8 29 3417.8 -9.48 155.03
 100.00 5 43 0 2483.55 -29.50 58.44 243.44 95.09 6 24 23 1883.6 -28.48 49.78
 100.00 23 9 9 3799.55 -4.63 145.10 237.85 60.44 24 12 28 3199.6 -8.53 138.48
 110.00 7 20 21 2178.95 -32.85 34.79 242.92 100.03 7 56 40 1579.0 -31.12 25.99
 110.00 23 48 17 3676.92 -1.75 134.01 236.06 55.86 24 49 33 3076.9 -6.22 127.77

DIFFERENTIAL CORRECTIONS

TDE -.5106 TRA-1.0282 TC3 .9925 BAU .1981
 ROE -.3255 RRA -.4340 RC3 .9047 FAU .09425
 FDE 2.0206 FRA 3.5308 FC3-7.3950 BSP 8763
 BOE .6055 BRA 1.1161 BC3 1.3430 FSP -2421

MID-COURSE EXECUTION ACCURACY

SGT 2192.2 SGR 1147.6 SG3 766.4
 RRT .9573 RRF -.9942 RTF -.9594
 SGB 2474.4 R23 -.2029 R13 -.9737
 SG1 2456.6 SG2 296.2 THA 27.04

ORBIT DETERMINATION ACCURACY

ST 1048.6 SR 610.9 SS 1509.6
 CRT .9856 CRS .9943 CST .9979
 LSA 1934.7 MSA 91.6 SSA 12.9
 EL1 1210.3 EL2 89.4 ALF 30.05

LAUNCH DATE DEC 20 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.598 GAL 3.29 AZL 89.33 MCA 165.39 SMA 127.38 ECC .16541 INC .6656 V1 30.271
 RP 108.60 LAP .17 LOP 253.57 VP 37.446 GAP -4.35 AZP 90.64 TAL 162.99 TAP 328.37 RCA 106.31 APO 148.45 V2 34.894
 RC 64.032 GL 5.69 GP 24.79 ZAL 58.08 ZAP 44.58 ETS 334.82 ZAE 150.10 ETE 45.28 ZAC 117.44 ETC 149.75 CLP -38.32

PLANETOCENTRIC CONIC

C3 10.417 VHL 3.228 DLA 16.89 RAL 26.09 RAD 6567.4 VEL 11.481 PTH 2.00 VHP 4.267 DPA 33.90 RAP 22.91 ECC 1.1714
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 58 2625.03 -26.95 69.18 242.48 99.02 5 37 43 2025.0 -25.43 60.85
 90.00 21 25 39 4159.40 -1.27 169.72 238.03 61.71 22 34 58 3559.4 -5.04 163.07
 100.00 6 24 56 2331.65 -28.07 47.38 242.27 100.73 7 3 48 1731.6 -26.30 39.03
 100.00 22 37 21 3928.02 -.28 152.16 237.48 60.11 23 42 49 3328.0 -4.26 145.63
 110.00 7 54 26 2051.62 -30.94 25.35 241.50 105.31 8 28 38 1451.6 -28.53 16.98
 110.00 23 24 21 3780.81 2.22 139.43 235.92 55.88 24 27 21 3180.8 -2.27 133.23

DIFFERENTIAL CORRECTIONS

TDE -.4759 TRA-1.0242 TC3 .8348 BAU .2046
 ROE -.3546 RRA -.5971 RC3 1.2086 FAU .09379
 FDE 1.8894 FRA 3.8644 FC3-7.7947 BSP 7948
 BOE .5935 BRA 1.1856 BC3 1.4689 FSP -2360

MID-COURSE EXECUTION ACCURACY

SGT 2148.3 SGR 1494.1 SG3 810.3
 RRT .9526 RRF -.9976 RTF -.9514
 SGB 2616.7 R23 -.2045 R13 -.9764
 SG1 2589.4 SG2 377.2 THA 34.36

ORBIT DETERMINATION ACCURACY

ST 1019.3 SR 712.2 SS 1470.0
 CRT .9941 CRS .9964 CST .9995
 LSA 1924.2 MSA 64.3 SSA 17.0
 EL1 1241.9 EL2 63.7 ALF 34.89

LAUNCH DATE DEC 20 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.632 GAL 3.20 AZL 90.10 MCA 168.56 SMA 127.61 ECC .16294 INC .0972 V1 30.271
 RP 108.64 LAP -.02 LOP 256.74 VP 37.461 GAP -3.86 AZP 89.90 TAL 163.15 TAP 331.72 RCA 106.82 APO 148.40 V2 34.883
 RC 66.131 GL -.90 GP 32.04 ZAL 58.17 ZAP 50.76 ETS 332.19 ZAE 145.15 ETE 55.33 ZAC 113.17 ETC 147.26 CLP -41.74

PLANETOCENTRIC CONIC

C3 9.974 VHL 3.158 DLA 10.64 RAL 28.25 RAD 6567.4 VEL 11.461 PTH 1.99 VHP 4.295 DPA 40.24 RAP 18.49 ECC 1.1642
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 59 2398.06 -23.56 53.45 241.85 106.18 6 37 57 1798.1 -21.11 45.63
 90.00 20 38 50 4368.97 5.47 181.43 238.89 62.17 21 51 39 3769.0 1.70 174.78
 100.00 7 24 37 2118.60 -24.48 32.59 241.54 107.71 7 59 56 1518.6 -21.83 24.80
 100.00 21 54 53 4123.66 6.31 162.93 238.42 60.72 23 3 36 3523.7 2.36 156.37
 110.00 8 44 54 1867.37 -26.92 12.54 240.57 111.91 9 16 2 1267.4 -23.70 4.85
 110.00 22 51 5 3947.65 8.53 148.22 237.07 56.77 23 56 53 3347.6 4.10 141.94

DIFFERENTIAL CORRECTIONS

TDE -.3739 TRA -.9665 TC3 .8403 BAU .2543
 ROE -.3377 RRA -.8229 RC3 1.7122 FAU .09352
 FDE 1.3862 FRA 3.9434 FC3-8.1170 BSP 8857
 BOE .5038 BRA 1.2694 BC3 1.9073 FSP -2420

MID-COURSE EXECUTION ACCURACY

SGT 1981.1 SGR 1962.8 SG3 799.4
 RRT .9515 RRF -.9991 RTF -.9501
 SGB 2788.8 R23 -.1588 R13 -.9864
 SG1 2754.7 SG2 434.5 THA 44.72

ORBIT DETERMINATION ACCURACY

ST 864.2 SR 764.2 SS 1237.2
 CRT .9993 CRS .9972 CST .9985
 LSA 1690.7 MSA 53.7 SSA 17.3
 EL1 1153.5 EL2 21.3 ALF 41.48

LAUNCH DATE DEC 20 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.661 GAL 3.13 AZL 91.45 MCA 171.73 SMA 127.81 ECC .16080 INC 1.4477 V1 30.271
 RP 108.67 LAP -.21 LOP 259.91 VP 37.473 GAP -3.39 AZP 88.57 TAL 163.29 TAP 335.02 RCA 107.26 APO 148.37 V2 34.873
 RC 68.274 GL -12.62 GP 42.79 ZAL 59.31 ZAP 58.74 ETS 329.16 ZAE 136.31 ETE 64.77 ZAC 106.60 ETC 144.63 CLP -45.01

PLANETOCENTRIC CONIC

C3 10.226 VHL 3.198 DLA -.46 RAL 32.05 RAD 6567.4 VEL 11.472 PTH 1.99 VHP 4.629 DPA 49.39 RAP 10.50 ECC 1.1683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 37 56 2052.37 -15.33 31.46 243.48 114.10 8 12 8 1452.4 -11.95 24.42
 90.00 19 29 13 4724.62 16.11 202.13 243.61 66.39 20 47 58 4124.6 12.78 195.03
 100.00 8 59 4 1790.67 -16.15 11.83 243.09 115.50 9 28 55 1190.7 -12.58 4.85
 100.00 20 50 46 4461.56 16.93 182.39 243.23 64.99 22 5 8 3861.6 13.42 175.36
 110.00 10 6 49 1578.57 -18.32 354.55 241.90 119.37 10 33 8 978.6 -14.27 347.77
 110.00 21 59 30 4246.42 19.11 164.90 242.06 61.11 23 10 17 3646.4 15.11 158.06

DIFFERENTIAL CORRECTIONS

TDE -.2787 TRA -.9309 TC3 .7088 BAU .3203
 ROE -.2334 RRA -1.2080 RC3 2.2330 FAU .08048
 FDE .6169 FRA 3.7290 FC3-6.8131 BSP 10032
 BOE .3635 BRA 1.5235 BC3 2.3429 FSP -2132

MID-COURSE EXECUTION ACCURACY

SGT 1798.9 SGR 2624.0 SG3 695.8
 RRT .9447 RRF -.9997 RTF -.9434
 SGB 3181.4 R23 -.1077 R13 -.9939
 SG1 3143.0 SG2 492.7 THA 56.13

ORBIT DETERMINATION ACCURACY

ST 707.1 SR 772.6 SS 917.1
 CRT .9771 CRS .9976 CST .9603
 LSA 1382.9 MSA 159.4 SSA 4.7
 EL1 1041.3 EL2 111.6 ALF 47.60

LAUNCH DATE DEC 20 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 401.516

RL 147.18 LAL .00 LOL 88.18 VL 27.687 GAL 3.07 AZL 94.45 MCA 174.89 SMA 127.99 ECC .15898 INC 4.4459 V1 30.271
 RP 108.70 LAP -.40 LOP 263.09 VP 37.482 GAP -2.94 AZP 85.57 TAL 163.38 TAP 338.27 RCA 107.64 APO 148.34 V2 34.862
 RC 70.456 GL -34.26 GP 58.97 ZAL 65.06 ZAP 69.29 ETS 325.82 ZAE 121.32 ETE 71.55 ZAC 96.74 ETC 142.19 CLP -46.70

PLANETOCENTRIC CONIC

C3 14.500 VHL 3.808 DLA -20.96 RAL 39.17 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 5.929 DPA 62.10 RAP 352.31 ECC 1.2386
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 11 3 44 1421.22 4.30 355.50 256.47 118.02 11 27 26 821.2 8.01 348.79
 90.00 17 0 14 5503.46 28.31 255.12 262.51 89.36 18 31 57 4903.5 27.92 246.48
 100.00 12 11 2 1204.06 2.99 338.82 255.75 119.76 12 31 6 604.1 6.93 332.24
 100.00 18 35 37 5195.85 29.80 232.45 262.47 87.55 20 2 13 4595.8 29.14 223.70
 110.00 12 49 32 1083.37 -.18 327.69 253.77 124.18 13 7 35 483.4 4.31 321.48
 110.00 20 13 36 4889.30 33.52 208.80 262.10 82.89 21 35 6 4289.3 32.18 199.83

DIFFERENTIAL CORRECTIONS

TOE -.2188 TRA -.9578 TC3 .3985 BAU .3936
 RDE .1309 RRA-1.9190 RC3 1.9909 FAU .04889
 FDE -.2130 FRA 2.8757 FC3-2.9189 BSP 11970
 BOE .2549 BRA 2.1448 BC3 2.0304 FSP -1395

MID-COURSE EXECUTION ACCURACY

SGT 1607.0 SGR 3449.5 SG3 444.9
 RRT .9322 RRF -.9999 RTF -.9330
 SGB 3805.5 R23 -.0604 R13 -.9981
 SG1 3768.1 SG2 532.4 THA 66.02

ORBIT DETERMINATION ACCURACY

ST 568.2 SR 949.4 SS 731.6
 CRT .6768 CRS .9998 CST .6639
 LSA 1265.1 MSA 398.7 SSA .9
 EL1 1038.2 EL2 382.5 ALF 64.20

LAUNCH DATE DEC 20 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 407.870

RL 147.18 LAL .00 LOL 88.18 VL 27.709 GAL 3.04 AZL 106.81 MCA 177.99 SMA 128.14 ECC .15753 INC16.8080 V1 30.271
 RP 108.73 LAP -.58 LOP 266.25 VP 37.490 GAP -2.51 AZP 73.20 TAL 163.38 TAP 341.37 RCA 107.95 APO 148.33 V2 34.853
 RC 72.672 GL -62.85 GP 81.91 ZAL 79.81 ZAP 82.02 ETS 302.71 ZAE 96.22 ETE 53.76 ZAC 83.78 ETC 121.51 CLP -9.75

PLANETOCENTRIC CONIC

C3 80.875 VHL 8.993 DLA -48.70 RAL 49.79 RAD 6569.6 VEL 14.221 PTH 2.59 VHP 13.028 DPA 72.89 RAP 287.77 ECC 2.3310
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.56 10 37 57 1983.04 16.12 48.21 305.06 136.61 11 11 0 1383.0 21.85 42.72
 131.44 18 50 43 5776.95 16.14 268.84 305.08 136.61 20 27 0 5176.9 21.86 263.35
 48.56 10 37 57 1983.04 16.12 48.21 305.06 136.61 11 11 0 1383.0 21.85 42.72
 131.44 18 50 43 5776.95 16.14 268.84 305.08 136.61 20 27 0 5176.9 21.86 263.35
 48.56 10 37 57 1983.04 16.12 48.21 305.06 136.61 11 11 0 1383.0 21.85 42.72
 131.44 18 50 43 5776.95 16.14 268.84 305.08 136.61 20 27 0 5176.9 21.86 263.35

DIFFERENTIAL CORRECTIONS

TOE -.0206 TRA-2.8283 TC3 .0201 BAU .1453
 RDE 1.3336 RRA-3.4727 RC3 .1328 FAU .00343
 FDE -.4041 FRA 1.6378 FC3 -.0367 BSP 12835
 BOE 1.3337 BRA 4.4788 BC3 .1343 FSP -415

MID-COURSE EXECUTION ACCURACY

SGT 2730.7 SGR 3466.8 SG3 138.5
 RRT .9667 RRF -.9959 RTF -.9858
 SGB 4413.1 R23 -.0079 R13 -.9999
 SG1 4378.3 SG2 553.4 THA 52.00

ORBIT DETERMINATION ACCURACY

ST 819.2 SR 1316.6 SS 607.5
 CRT .7535 CRS .9792 CST .8711
 LSA 1594.4 MSA 481.4 SSA .5
 EL1 1474.2 EL2 481.1 ALF 61.58

LAUNCH DATE DEC 20 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 414.629

RL 147.18 LAL .00 LOL 88.18 VL 27.728 GAL 2.94 AZL 58.34 MCA 181.46 SMA 128.27 ECC .15589 INC31.6556 V1 30.271
 RP 108.76 LAP -.77 LOP 269.42 VP 37.495 GAP -1.98 AZP 121.65 TAL 163.73 TAP 345.19 RCA 108.27 APO 148.26 V2 34.844
 RC 74.919 GL 64.68 GP -82.43 ZAL 84.49 ZAP 85.35 ETS 149.94 ZAE 84.24 ETE 39.52 ZAC 108.35 ETC 335.60 CLP 51.98

PLANETOCENTRIC CONIC

C3 258.522 VHL 16.079 DLA 59.57 RAL 325.93 RAD 6571.5 VEL 19.489 PTH 3.11 VHP 17.947 DPA -59.68 RAP 108.46 ECC 5.2546
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.12 16 22 30 4923.66 -6.27 236.73 232.25 30.63 17 44 34 4323.7 -13.13 232.98
 144.88 1 57 9 3260.35 -6.26 100.59 232.23 30.63 2 51 30 2660.3 -13.12 96.83
 35.12 16 22 30 4923.66 -6.27 236.73 232.25 30.63 17 44 34 4323.7 -13.13 232.98
 144.88 1 57 9 3260.35 -6.26 100.59 232.23 30.63 2 51 30 2660.3 -13.12 96.83
 35.12 16 22 30 4923.66 -6.27 236.73 232.25 30.63 17 44 34 4323.7 -13.13 232.98
 144.88 1 57 9 3260.35 -6.26 100.59 232.23 30.63 2 51 30 2660.3 -13.12 96.83

DIFFERENTIAL CORRECTIONS

TDE-6.5686 TRA 1.5756 TC3 -.1629 BAU .8183
 RD-10.2216 RRA .3304 RC3 -.1718 FAU-.01836
 FDE 3.1531 FRA -.3630 FC3 .0615 BSP 9786
 BDE12.1502 BRA 1.6098 BC3 .2368 FSP -230

MID-COURSE EXECUTION ACCURACY

SGT 2642.4 SGR 3691.4 SG3 101.0
 RRT .9302 RRF -.9874 RTF -.9765
 SGB 4539.7 R23 .0342 R13 -.9994
 SG1 4468.4 SG2 801.5 THA 55.06

ORBIT DETERMINATION ACCURACY

ST 2364.3 SR 3643.2 SS 1746.4
 CRT .9926 CRS .9988 CST .9973
 LSA 4674.7 MSA 242.7 SSA .5
 EL1 4336.3 EL2 241.8 ALF 57.10

LAUNCH DATE DEC 20 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 420.888

RL 147.18 LAL .00 LOL 88.18 VL 27.743 GAL 2.94 AZL 77.86 MCA 184.51 SMA 128.37 ECC .15503 INC12.1423 V1 30.271
 RP 108.78 LAP -.95 LOP 272.59 VP 37.498 GAP -1.59 AZP 102.10 TAL 163.60 TAP 348.11 RCA 108.47 APO 148.27 V2 34.835
 RC 77.194 GL 58.72 GP -66.53 ZAL 76.89 ZAP 79.11 ETS 32.91 ZAE 111.60 ETE 287.78 ZAC 116.73 ETC 214.58 CLP -61.68

PLANETOCENTRIC CONIC

C3 46.493 VHL 6.819 DLA 60.27 RAL 342.93 RAD 6568.7 VEL 12.956 PTH 2.36 VHP 6.284 DPA -50.25 RAP 63.19 ECC 1.7652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.28 17 28 10 4581.84 -26.41 225.92 236.46 33.62 18 44 32 3981.8 -32.98 221.06
 145.72 3 7 4 2910.69 -26.40 88.75 236.44 33.62 3 55 34 2310.7 -32.97 83.90
 34.28 17 28 10 4581.84 -26.41 225.92 236.46 33.62 18 44 32 3981.8 -32.98 221.06
 145.72 3 7 4 2910.69 -26.40 88.75 236.44 33.62 3 55 34 2310.7 -32.97 83.90
 34.28 17 28 10 4581.84 -26.41 225.92 236.46 33.62 18 44 32 3981.8 -32.98 221.06
 145.72 3 7 4 2910.69 -26.40 88.75 236.44 33.62 3 55 34 2310.7 -32.97 83.90

DIFFERENTIAL CORRECTIONS

TDE-1.1568 TRA -.3528 TC3 .0473 BAU .3155
 RDE 4.8354 RRA -.0067 RC3 -.5054 FAU .03285
 FDE 5.3804 FRA .1051 FC3 -.6116 BSP 13855
 BOE 4.9719 BRA .3529 BC3 .5076 FSP -1343

MID-COURSE EXECUTION ACCURACY

SGT 1143.0 SGR 4121.2 SG3 397.5
 RRT -.8465 RRF .9990 RTF -.8662
 SGB 4276.8 R23 .0051 R13 .9998
 SG1 4235.6 SG2 592.2 THA 103.48

ORBIT DETERMINATION ACCURACY

ST 988.5 SR 4063.2 SS 2454.7
 CRT -.9832 CRS -.9999 CST .9855
 LSA 4845.8 MSA 175.3 SSA 1.5
 EL1 4178.0 EL2 175.2 ALF 103.48

LAUNCH DATE DEC 20 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.755 GAL 2.94 AZL 81.52 MCA 187.66 SMA 128.46 ECC .15429 INC 8.4824 V1 30.271
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.500 GAP -1.17 AZP 98.41 TAL 163.53 TAP 351.19 RCA 108.64 APO 148.28 V2 34.827
 RC 79.493 GL 51.55 GP -51.88 ZAL 72.78 ZAP 77.90 ETS 19.55 ZAE 126.81 ETE 278.28 ZAC 119.65 ETC 199.20 CLP -70.15

PLANETOCENTRIC CONIC

C3 27.260 VHL 5.221 DLA 56.02 RAL 354.24 RAD 6568.1 VEL 12.192 PTH 2.19 VHP 4.324 DPA -39.48 RAP 48.60 ECC 1.4486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.41 18 26 46 4421.28 -32.18 214.59 239.16 41.33 19 40 27 3821.3 -38.02 208.31
 140.59 3 38 43 2802.55 -32.17 83.96 239.14 41.32 4 25 26 2202.6 -38.00 77.68
 39.41 18 26 46 4421.28 -32.18 214.59 239.16 41.33 19 40 27 3821.3 -38.02 208.31
 140.59 3 38 43 2802.55 -32.17 83.96 239.14 41.32 4 25 26 2202.6 -38.00 77.68
 39.41 18 26 46 4421.28 -32.18 214.59 239.16 41.33 19 40 27 3821.3 -38.02 208.31
 140.59 3 38 43 2802.55 -32.17 83.96 239.14 41.32 4 25 26 2202.6 -38.00 77.68

DIFFERENTIAL CORRECTIONS

TDE -.1385 TRA -.3376 TC3 -.0712 BAU .3445
 RDE 3.1881 RRA .4151 RC3 -.9425 FAU .07800
 FDE 7.7051 FRA 1.1613 FC3 -2.4771 BSP 11784
 BDE 3.1911 BRA .5351 BC3 .9452 FSP -2536

MID-COURSE EXECUTION ACCURACY

SGT 684.2 SGR 3724.6 SG3 789.0
 RRT -.3920 RRF .9993 RTF -.4169
 SGB 3786.9 R23 .0149 R13 .9995
 SG1 3734.5 SG2 627.8 THA 94.24

ORBIT DETERMINATION ACCURACY

ST 250.4 SR 3507.2 SS 3169.1
 CRT -.6611 CRS -.9999 CST .6693
 LSA 4729.8 MSA 188.7 SSA 2.2
 EL1 3511.1 EL2 187.6 ALF 92.71

LAUNCH DATE DEC 20 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.765 GAL 2.94 AZL 83.05 MCA 190.82 SMA 128.52 ECC .15377 INC 6.9513 V1 30.271
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.500 GAP -.77 AZP 96.83 TAL 163.43 TAP 354.25 RCA 108.76 APO 148.29 V2 34.820
 RC 81.813 GL 46.78 GP -42.09 ZAL 70.35 ZAP 79.97 ETS 12.02 ZAE 136.93 ETE 271.49 ZAC 119.52 ETC 190.35 CLP -76.42

PLANETOCENTRIC CONIC

C3 21.204 VHL 4.605 DLA 52.63 RAL .10 RAD 6567.9 VEL 11.941 PTH 2.12 VHP 3.603 DPA -31.97 RAP 40.42 ECC 1.3490
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.58 19 2 7 4334.00 -33.61 206.54 239.61 46.78 20 14 21 3734.0 -38.87 199.48
 136.42 3 50 7 2766.77 -33.60 81.70 239.59 46.78 4 36 14 2166.8 -38.86 74.64
 43.58 19 2 7 4334.00 -33.61 206.54 239.61 46.78 20 14 21 3734.0 -38.87 199.48
 136.42 3 50 7 2766.77 -33.60 81.70 239.59 46.78 4 36 14 2166.8 -38.86 74.64
 43.58 19 2 7 4334.00 -33.61 206.54 239.61 46.78 20 14 21 3734.0 -38.87 199.48
 136.42 3 50 7 2766.77 -33.60 81.70 239.59 46.78 4 36 14 2166.8 -38.86 74.64

DIFFERENTIAL CORRECTIONS

TDE .2709 TRA -.2431 TC3 -.2726 BAU .3269
 RDE 2.3323 RRA .5110 RC3 -1.1205 FAU .11638
 FDE 9.0401 FRA 2.2027 FC3 -4.7517 BSP 10285
 BDE 2.3480 BRA .5659 BC3 1.1532 FSP -3597

MID-COURSE EXECUTION ACCURACY

SGT 651.9 SGR 3253.3 SG3 1113.4
 RRT .3372 RRF .9992 RTF .3142
 SGB 3318.0 R23 .0372 R13 .9988
 SG1 3261.0 SG2 612.3 THA 85.99

ORBIT DETERMINATION ACCURACY

ST 368.8 SR 2919.1 SS 3527.5
 CRT .8651 CRS -.9999 CST -.8591
 LSA 4589.6 MSA 188.7 SSA 2.8
 EL1 2936.6 EL2 183.9 ALF 83.74

LAUNCH DATE DEC 20 1968

FLIGHT TIME 162.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.771 GAL 2.96 AZL 83.89 MCA 193.98 SMA 128.57 ECC .15348 INC 6.1068 V1 30.271
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.499 GAP -.36 AZP 95.93 TAL 163.29 TAP 357.27 RCA 108.84 APO 148.30 V2 34.813
 RC 84.153 GL 43.47 GP -35.18 ZAL 68.71 ZAP 83.77 ETS 6.78 ZAE 143.74 ETE 263.50 ZAC 117.92 ETC 184.27 CLP -82.37

PLANETOCENTRIC CONIC

C3 18.389 VHL 4.288 DLA 50.15 RAL 3.67 RAD 6567.7 VEL 11.822 PTH 2.09 VHP 3.257 DPA -26.84 RAP 34.54 ECC 1.3026
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.71 19 26 2 4277.91 -33.81 200.87 239.69 50.46 20 37 20 3677.9 -38.66 193.39
 133.29 3 54 40 2755.22 -33.80 80.70 239.68 50.46 4 40 35 2155.2 -38.65 73.22
 46.71 19 26 2 4277.91 -33.81 200.87 239.69 50.46 20 37 20 3677.9 -38.66 193.39
 133.29 3 54 40 2755.22 -33.80 80.70 239.68 50.46 4 40 35 2155.2 -38.65 73.22
 46.71 19 26 2 4277.91 -33.81 200.87 239.69 50.46 20 37 20 3677.9 -38.66 193.39
 133.29 3 54 40 2755.22 -33.80 80.70 239.68 50.46 4 40 35 2155.2 -38.65 73.22

DIFFERENTIAL CORRECTIONS

TDE .5613 TRA -.1291 TC3 -.5295 BAU .3087
 RDE 1.8248 RRA .5230 RC3 -1.1386 FAU .14342
 FDE 9.7280 FRA 3.0978 FC3 -6.7521 BSP 9004
 BDE 1.9092 BRA .5387 BC3 1.2557 FSP -4341

MID-COURSE EXECUTION ACCURACY

SGT 917.2 SGR 2843.8 SG3 1350.2
 RRT .7585 RRF .9989 RTF .7423
 SGB 2988.1 R23 .0739 R13 .9964
 SG1 2931.3 SG2 579.8 THA 75.68

ORBIT DETERMINATION ACCURACY

ST 754.5 SR 2460.2 SS 3698.1
 CRT .9712 CRS -.9999 CST -.9676
 LSA 4501.4 MSA 187.2 SSA 3.4
 EL1 2567.5 EL2 172.3 ALF 73.34

LAUNCH DATE DEC 20 1968

FLIGHT TIME 164.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.776 GAL 2.99 AZL 84.43 MCA 197.14 SMA 128.60 ECC .15340 INC 5.5694 V1 30.271
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.497 GAP .03 AZP 95.32 TAL 163.10 TAP .24 RCA 108.87 APO 148.33 V2 34.807
 RC 86.508 GL 41.03 GP -30.04 ZAL 67.46 ZAP 88.46 ETS 2.95 ZAE 148.12 ETE 253.85 ZAC 115.65 ETC 179.93 CLP -88.22

PLANETOCENTRIC CONIC

C3 16.816 VHL 4.101 DLA 48.29 RAL 6.16 RAD 6567.7 VEL 11.756 PTH 2.07 VHP 3.072 DPA -23.26 RAP 29.77 ECC 1.2767
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.10 19 43 53 4238.18 -33.62 196.71 239.84 53.03 20 54 31 3638.2 -38.17 189.00
 130.90 3 56 44 2753.46 -33.60 80.34 239.83 53.02 4 42 37 2153.5 -38.15 72.63
 49.10 19 43 53 4238.18 -33.62 196.71 239.84 53.03 20 54 31 3638.2 -38.17 189.00
 130.90 3 56 44 2753.46 -33.60 80.34 239.83 53.02 4 42 37 2153.5 -38.15 72.63
 49.10 19 43 53 4238.18 -33.62 196.71 239.84 53.03 20 54 31 3638.2 -38.17 189.00
 130.90 3 56 44 2753.46 -33.60 80.34 239.83 53.02 4 42 37 2153.5 -38.15 72.63

DIFFERENTIAL CORRECTIONS

TDE .8068 TRA -.0042 TC3 -.8187 BAU .3063
 RDE 1.4810 RRA .4995 RC3 -1.0890 FAU .16220
 FDE 9.9565 FRA 3.7816 FC3 -8.3505 BSP 8269
 BDE 1.6865 BRA .4995 BC3 1.3624 FSP -4879

MID-COURSE EXECUTION ACCURACY

SGT 1312.1 SGR 2485.9 SG3 1505.2
 RRT .8961 RRF .9983 RTF .8841
 SGB 2810.9 R23 .1168 R13 .9917
 SG1 2761.6 SG2 524.2 THA 63.67

ORBIT DETERMINATION ACCURACY

ST 1127.4 SR 2093.2 SS 3746.4
 CRT .9883 CRS -.9998 CST -.9852
 LSA 4433.3 MSA 185.1 SSA 4.0
 EL1 2372.7 EL2 151.9 ALF 61.85

LAUNCH DATE DEC 20 1968

FLIGHT TIME 166.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 452.509

RL 147.18 LAL .00 LOL 88.18 VL 27.778 GAL 3.03 AZL 84.80 MCA 200.30 SMA 128.61 ECC .15353 INC 5.1955 V1 30.271
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.493 GAP .42 AZP 94.87 TAL 162.87 TAP 3.17 RCA 108.87 APO 148.36 V2 34.802
 RC 88.877 GL 39.12 GP -26.03 ZAL 66.42 ZAP 93.55 ETS .09 ZAE 150.52 ETE 243.05 ZAC 113.13 ETC 176.74 CLP -93.95

PLANETOCENTRIC CONIC

C3 15.849 VHL 3.981 DLA 46.85 RAL 8.11 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 2.976 DPA -20.66 RAP 25.66 ECC 1.2608
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.98 19 58 11 4208.41 -33.29 193.55 240.14 54.90 21 8 20 3608.4 -37.62 185.70
 129.02 3 57 58 2756.18 -33.27 80.31 240.13 54.89 4 43 54 2156.2 -37.61 72.47
 50.98 19 58 11 4208.41 -33.29 193.55 240.14 54.90 21 8 20 3608.4 -37.62 185.70
 129.02 3 57 58 2756.18 -33.27 80.31 240.13 54.89 4 43 54 2156.2 -37.61 72.47
 50.98 19 58 11 4208.41 -33.29 193.55 240.14 54.90 21 8 20 3608.4 -37.62 185.70
 129.02 3 57 58 2756.18 -33.27 80.31 240.13 54.89 4 43 54 2156.2 -37.61 72.47

DIFFERENTIAL CORRECTIONS

TOE 1.0258 TRA .1270 TC3-1.1262 BAU .3197
 ROE 1.2301 RRA .4619 RC3-1.0043 FAU .17401
 FDE 9.8691 FRA 4.2684 FC-9.5051 BSP 8061
 BOE 1.6017 BRA .4790 BC3 1.5090 FSP -5235

MID-COURSE EXECUTION ACCURACY

SGT 1747.9 SGR 2172.2 SG3 1592.4
 RRT .9457 RRF .9973 RTF .9361
 SGB 2788.1 R23 .1496 R13 .9863
 SG1 2751.8 SG2 448.5 THA 51.52

ORBIT DETERMINATION ACCURACY

ST 1478.7 SR 1794.4 SS 3717.6
 CRT .9941 CRS -.9997 CST -.9911
 LSA 4381.0 MSA 183.0 SSA 4.6
 EL1 2321.8 EL2 124.4 ALF 50.54

LAUNCH DATE DEC 20 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 458.779

RL 147.18 LAL .00 LOL 88.18 VL 27.778 GAL 3.09 AZL 85.08 MCA 203.46 SMA 128.61 ECC .15387 INC 4.9189 V1 30.271
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.489 GAP .81 AZP 94.51 TAL 162.59 TAP 6.05 RCA 108.82 APO 148.40 V2 34.797
 RC 91.236 GL 37.55 GP -22.78 ZAL 65.48 ZAP 98.77 ETS 357.92 ZAE 151.28 ETE 232.15 ZAC 110.61 ETC 174.35 CLP -99.52

PLANETOCENTRIC CONIC

C3 15.228 VHL 3.902 DLA 45.70 RAL 9.76 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 2.937 DPA -18.70 RAP 22.07 ECC 1.2506
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.50 20 10 18 4185.31 -32.92 191.06 240.60 56.31 21 20 4 3585.3 -37.08 183.14
 127.50 3 59 1 2761.24 -32.90 80.49 240.59 56.29 4 45 3 2161.2 -37.07 72.56
 52.50 20 10 18 4185.31 -32.92 191.06 240.60 56.31 21 20 4 3585.3 -37.08 183.14
 127.50 3 59 1 2761.24 -32.90 80.49 240.59 56.29 4 45 3 2161.2 -37.07 72.56
 52.50 20 10 18 4185.31 -32.92 191.06 240.60 56.31 21 20 4 3585.3 -37.08 183.14
 127.50 3 59 1 2761.24 -32.90 80.49 240.59 56.29 4 45 3 2161.2 -37.07 72.56

DIFFERENTIAL CORRECTIONS

TOE 1.2239 TRA .2618 TC3-1.4395 BAU .3456
 ROE 1.0385 RRA .4203 RC3 -.8996 FAU .17955
 FDE 9.5637 FRA 4.5983 FC-10.2077 BSP 8314
 BOE 1.6051 BRA .4952 BC3 1.6975 FSP -5411

MID-COURSE EXECUTION ACCURACY

SGT 2189.6 SGR 1897.0 SG3 1626.0
 RRT .9666 RRF .9958 RTF .9588
 SGB 2897.0 R23 .1617 R13 .9827
 SG1 2873.3 SG2 370.2 THA 40.76

ORBIT DETERMINATION ACCURACY

ST 1804.9 SR 1547.8 SS 3640.0
 CRT .9967 CRS -.9995 CST -.9937
 LSA 4344.0 MSA 181.4 SSA 5.3
 EL1 2375.7 EL2 94.7 ALF 40.60

LAUNCH DATE DEC 20 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 465.029

RL 147.18 LAL .00 LOL 88.18 VL 27.776 GAL 3.16 AZL 85.30 MCA 206.63 SMA 128.60 ECC .15440 INC 4.7047 V1 30.271
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.483 GAP 1.18 AZP 94.21 TAL 162.26 TAP 8.88 RCA 108.74 APO 148.45 V2 34.793
 RC 93.644 GL 36.21 GP -20.10 ZAL 64.59 ZAP 103.94 ETS 356.26 ZAE 150.80 ETE 222.20 ZAC 108.22 ETC 172.55 CLP -104.86

PLANETOCENTRIC CONIC

C3 14.828 VHL 3.851 DLA 44.75 RAL 11.25 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 2.940 DPA -17.16 RAP 18.92 ECC 1.2440
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.78 20 21 3 4166.91 -32.53 189.06 241.21 57.40 21 30 30 3566.9 -36.57 181.09
 126.22 4 0 10 2767.73 -32.52 80.79 241.20 57.38 4 46 18 2167.7 -36.56 72.82
 53.78 20 21 3 4166.91 -32.53 189.06 241.21 57.40 21 30 30 3566.9 -36.57 181.09
 126.22 4 0 10 2767.73 -32.52 80.79 241.20 57.38 4 46 18 2167.7 -36.56 72.82
 53.78 20 21 3 4166.91 -32.53 189.06 241.21 57.40 21 30 30 3566.9 -36.57 181.09
 126.22 4 0 10 2767.73 -32.52 80.79 241.20 57.38 4 46 18 2167.7 -36.56 72.82

DIFFERENTIAL CORRECTIONS

TOE 1.4033 TRA .3990 TC3-1.7453 BAU .3793
 ROE .8877 RRA .3782 RC3 -.7847 FAU .17966
 FDE 9.1150 FRA 4.7963 FC-10.4892 BSP 8911
 BOE 1.6606 BRA .5498 BC3 1.9136 FSP -5431

MID-COURSE EXECUTION ACCURACY

SGT 2620.2 SGR 1654.7 SG3 1616.8
 RRT .9763 RRF .9934 RTF .9703
 SGB 3098.9 R23 .1527 R13 .9816
 SG1 3084.0 SG2 304.2 THA 32.00

ORBIT DETERMINATION ACCURACY

ST 2103.5 SR 1342.2 SS 3529.9
 CRT .9983 CRS -.9992 CST -.9951
 LSA 4319.0 MSA 180.1 SSA 5.9
 EL1 2494.3 EL2 66.5 ALF 32.52

LAUNCH DATE DEC 20 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 471.259

RL 147.18 LAL .00 LOL 88.18 VL 27.772 GAL 3.24 AZL 85.47 MCA 209.79 SMA 128.57 ECC .15513 INC 4.5331 V1 30.271
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.477 GAP 1.56 AZP 93.94 TAL 161.88 TAP 11.67 RCA 108.62 APO 148.52 V2 34.789
 RC 96.038 GL 35.02 GP -17.83 ZAL 63.71 ZAP 108.95 ETS 355.00 ZAE 149.47 ETE 213.81 ZAC 106.06 ETC 171.20 CLP -109.94

PLANETOCENTRIC CONIC

C3 14.584 VHL 3.819 DLA 43.94 RAL 12.66 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 2.975 DPA -15.90 RAP 16.19 ECC 1.2400
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.88 20 30 55 4152.00 -32.14 187.42 241.98 58.26 21 40 7 3552.0 -36.07 179.41
 125.12 4 1 32 2775.25 -32.13 81.19 241.97 58.25 4 47 47 2175.2 -36.07 73.18
 54.88 20 30 55 4152.00 -32.14 187.42 241.98 58.26 21 40 7 3552.0 -36.07 179.41
 125.12 4 1 32 2775.25 -32.13 81.19 241.97 58.25 4 47 47 2175.2 -36.07 73.18
 54.88 20 30 55 4152.00 -32.14 187.42 241.98 58.26 21 40 7 3552.0 -36.07 179.41
 125.12 4 1 32 2775.25 -32.13 81.19 241.97 58.25 4 47 47 2175.2 -36.07 73.18

DIFFERENTIAL CORRECTIONS

TOE 1.5651 TRA .5377 TC3-2.0334 BAU .4173
 ROE .7677 RRA .3380 RC3 -.6678 FAU .17542
 FDE 8.5760 FRA 4.8937 FC-10.4135 BSP 9724
 BOE 1.7432 BRA .6351 BC3 2.1403 FSP -5322

MID-COURSE EXECUTION ACCURACY

SGT 3030.0 SGR 1443.2 SG3 1576.1
 RRT .9801 RRF .9898 RTF .9767
 SGB 3356.1 R23 .1278 R13 .9821
 SG1 3346.0 SG2 259.5 THA 25.19

ORBIT DETERMINATION ACCURACY

ST 2372.5 SR 1171.1 SS 3400.5
 CRT .9992 CRS -.9986 CST -.9958
 LSA 4304.8 MSA 179.2 SSA 6.6
 EL1 2645.5 EL2 41.8 ALF 26.26

LAUNCH DATE DEC 20 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.766 GAL 3.33 AZL 85.61 MCA 212.95 SMA 128.53 ECC .15605 INC 4.3917 V1 30.271
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.470 GAP 1.93 AZP 93.69 TAL 161.46 TAP 14.41 RCA 108.47 APO 148.59 V2 34.787
 RC 98.436 GL 33.93 GP -15.90 ZAL 62.82 ZAP 113.72 ETS 354.04 ZAE 147.64 ETE 207.06 ZAC 104.17 ETC 170.18 CLP-114.72

PLANETOCENTRIC CONIC

C3 14.458 VHL 3.802 DLA 43.24 RAL 14.03 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 3.037 DPA -14.82 RAP 13.88 ECC 1.2379
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.85 20 40 14 4139.78 -31.75 186.04 242.89 58.95 21 49 14 3539.8 -35.60 178.02
 124.15 4 3 8 2783.63 -31.74 81.66 242.88 58.94 4 49 31 2183.6 -35.59 73.64
 55.85 20 40 14 4139.78 -31.75 186.04 242.89 58.95 21 49 14 3539.8 -35.60 178.02
 124.15 4 3 8 2783.63 -31.74 81.66 242.88 58.94 4 49 31 2183.6 -35.59 73.64
 55.85 20 40 14 4139.78 -31.75 186.04 242.89 58.95 21 49 14 3539.8 -35.60 178.02
 124.15 4 3 8 2783.63 -31.74 81.66 242.88 58.94 4 49 31 2183.6 -35.59 73.64

DIFFERENTIAL CORRECTIONS

TDE 1.7084 TRA .6754 TC3-2.2993 BAU .4573
 RDE .6705 RRA .2990 RC3 -.5579 FAU .16874
 FDE 7.9764 FRA 4.8938 FC3-10.1038 BSP 10677
 BDE 1.8353 BRA .7386 BC3 2.3660 FSP -5152

MID-COURSE EXECUTION ACCURACY

SGT 3411.2 SGR 1258.3 SG3 1511.3
 RRT .9801 RRF .9843 RTF .9807
 SGB 3635.8 R23 .0932 R13 .9832
 SG1 3628.2 SG2 234.9 THA 19.96

ORBIT DETERMINATION ACCURACY

ST 2608.7 SR 1027.3 SS 3253.4
 CRT .9998 CRS -.9978 CST -.9963
 LSA 4291.1 MSA 178.0 SSA 7.3
 EL1 2803.6 EL2 20.7 ALF 21.49

LAUNCH DATE DEC 20 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.750 GAL 3.44 AZL 85.73 MCA 216.11 SMA 128.48 ECC .15716 INC 4.2725 V1 30.271
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.463 GAP 2.30 AZP 93.45 TAL 160.99 TAP 17.10 RCA 108.29 APO 148.67 V2 34.785
 RC 100.837 GL 32.92 GP -14.23 ZAL 61.91 ZAP 118.22 ETS 353.31 ZAE 145.57 ETE 201.75 ZAC 102.60 ETC 169.42 CLP-119.20

PLANETOCENTRIC CONIC

C3 14.428 VHL 3.798 DLA 42.61 RAL 15.39 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 3.120 DPA -13.86 RAP 11.97 ECC 1.2374
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.72 20 49 12 4129.78 -31.35 184.87 243.93 59.52 21 58 2 3529.8 -35.14 176.86
 123.28 4 5 1 2792.70 -31.34 82.19 243.92 59.51 4 51 34 2192.7 -35.13 74.17
 56.72 20 49 12 4129.78 -31.35 184.87 243.93 59.52 21 58 2 3529.8 -35.14 176.86
 123.28 4 5 1 2792.70 -31.34 82.19 243.92 59.51 4 51 34 2192.7 -35.13 74.17
 56.72 20 49 12 4129.78 -31.35 184.87 243.93 59.52 21 58 2 3529.8 -35.14 176.86
 123.28 4 5 1 2792.70 -31.34 82.19 243.92 59.51 4 51 34 2192.7 -35.13 74.17

DIFFERENTIAL CORRECTIONS

TDE 1.8351 TRA .8129 TC3-2.5371 BAU .4972
 RDE .5924 RRA .2631 RC3 -.4559 FAU .16003
 FDE 7.3611 FRA 4.8324 FC3-9.6026 BSP 11666
 BDE 1.9283 BRA .8544 BC3 2.5777 FSP -4919

MID-COURSE EXECUTION ACCURACY

SGT 3762.0 SGR 1099.7 SG3 1431.8
 RRT .9764 RRF .9762 RTF .9833
 SGB 3919.4 R23 .0584 R13 .9844
 SG1 3912.8 SG2 228.2 THA 15.99

ORBIT DETERMINATION ACCURACY

ST 2813.4 SR 908.2 SS 3099.4
 CRT 1.0000 CRS -.9966 CST -.9966
 LSA 4279.6 MSA 177.0 SSA 7.9
 EL1 2956.3 EL2 7.9 ALF 17.89

LAUNCH DATE DEC 20 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.750 GAL 3.56 AZL 85.83 MCA 219.27 SMA 128.42 ECC .15847 INC 4.1701 V1 30.271
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.455 GAP 2.67 AZP 93.23 TAL 160.48 TAP 19.75 RCA 108.07 APO 148.77 V2 34.784
 RC 103.240 GL 31.96 GP -12.80 ZAL 60.97 ZAP 122.43 ETS 352.77 ZAE 143.45 ETE 197.62 ZAC 101.35 ETC 168.87 CLP-123.36

PLANETOCENTRIC CONIC

C3 14.480 VHL 3.805 DLA 42.05 RAL 16.76 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.222 DPA -12.98 RAP 10.43 ECC 1.2383
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.52 20 58 0 4121.51 -30.95 183.87 245.09 59.99 22 6 41 3521.5 -34.68 175.86
 122.48 4 7 9 2802.57 -30.94 82.78 245.09 59.97 4 53 52 2202.6 -34.67 74.77
 57.52 20 58 0 4121.51 -30.95 183.87 245.09 59.99 22 6 41 3521.5 -34.68 175.86
 122.48 4 7 9 2802.57 -30.94 82.78 245.09 59.97 4 53 52 2202.6 -34.67 74.77
 57.52 20 58 0 4121.51 -30.95 183.87 245.09 59.99 22 6 41 3521.5 -34.68 175.86
 122.48 4 7 9 2802.57 -30.94 82.78 245.09 59.97 4 53 52 2202.6 -34.67 74.77

DIFFERENTIAL CORRECTIONS

TDE 1.9465 TRA .9503 TC3-2.7442 BAU .5359
 RDE .5302 RRA .2306 RC3 -.3639 FAU .15018
 FDE 6.7555 FRA 4.7281 FC3-8.9790 BSP 12653
 BDE 2.0175 BRA .9779 BC3 2.7682 FSP -4658

MID-COURSE EXECUTION ACCURACY

SGT 4082.3 SGR 965.7 SG3 1344.2
 RRT .9688 RRF .9647 RTF .9849
 SGB 4194.9 R23 .0300 R13 .9854
 SG1 4188.4 SG2 233.5 THA 12.95

ORBIT DETERMINATION ACCURACY

ST 2988.0 SR 810.6 SS 2943.4
 CRT .9997 CRS -.9948 CST -.9967
 LSA 4268.2 MSA 176.1 SSA 8.5
 EL1 3095.9 EL2 18.3 ALF 15.17

LAUNCH DATE DEC 20 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

RL 147.18 LAL .00 LOL 88.18 VL 27.739 GAL 3.70 AZL 85.92 MCA 222.43 SMA 128.35 ECC .15996 INC 4.0807 V1 30.271
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.447 GAP 3.03 AZP 93.01 TAL 159.92 TAP 22.35 RCA 107.82 APO 148.88 V2 34.783
 RC 105.643 GL 31.03 GP -11.56 ZAL 60.00 ZAP 126.35 ETS 352.37 ZAE 141.36 ETE 194.40 ZAC 100.42 ETC 168.47 CLP-127.22

PLANETOCENTRIC CONIC

C3 14.607 VHL 3.822 DLA 41.52 RAL 18.15 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 3.340 DPA -12.14 RAP 9.26 ECC 1.2404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.26 21 6 44 4114.68 -30.54 183.00 246.39 60.37 22 15 19 3514.7 -34.22 175.00
 121.74 4 9 30 2813.27 -30.53 83.43 246.38 60.36 4 56 24 2213.3 -34.21 75.44
 58.26 21 6 44 4114.68 -30.54 183.00 246.39 60.37 22 15 19 3514.7 -34.22 175.00
 121.74 4 9 30 2813.27 -30.53 83.43 246.38 60.36 4 56 24 2213.3 -34.21 75.44
 58.26 21 6 44 4114.68 -30.54 183.00 246.39 60.37 22 15 19 3514.7 -34.22 175.00
 121.74 4 9 30 2813.27 -30.53 83.43 246.38 60.36 4 56 24 2213.3 -34.21 75.44

DIFFERENTIAL CORRECTIONS

TDE 2.0454 TRA 1.0891 TC3-2.9171 BAU .5723
 RDE .4813 RRA .2017 RC3 -.2823 FAU .13961
 FDE 6.1809 FRA 4.5998 FC3-8.2745 BSP 13584
 BDE 2.1013 BRA 1.1076 BC3 2.9307 FSP -4370

MID-COURSE EXECUTION ACCURACY

SGT 4373.8 SGR 854.5 SG3 1254.1
 RRT .9563 RRF .9489 RTF .9860
 SGB 4456.5 R23 .0101 R13 .9862
 SG1 4449.7 SG2 245.6 THA 10.62

ORBIT DETERMINATION ACCURACY

ST 3136.1 SR 731.7 SS 2791.0
 CRT .9990 CRS -.9923 CST -.9968
 LSA 4257.9 MSA 175.4 SSA 9.1
 EL1 3220.2 EL2 32.5 ALF 13.12

LAUNCH DATE DEC 20 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 502.104

RL 147.18 LAL .00 LOL 88.18 VL 27.728 GAL 3.85 AZL 86.00 MCA 225.59 SMA 128.27 ECC .16165 INC 4.0014 V1 30.271
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.439 GAP 3.40 AZP 92.80 TAL 159.33 TAP 24.92 RCA 107.53 APO 149.00 V2 34.783
 RC 108.045 GL 30.12 GP -10.49 ZAL 58.99 ZAP 129.98 ETS 352.07 ZAE 139.38 ETE 191.86 ZAC 99.79 ETC 168.19 CLP-130.80

PLANETOCENTRIC CONIC

C3 14.803 VML 3.847 DLA 41.03 RAL 19.56 RAD 6567.6 VEL 11.670 PTH 2.05 VMP 3.472 DPA -11.34 RAP 8.42 ECC 1.2436
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.97 21 15 28 4109.12 -30.11 182.24 247.79 60.70 22 23 57 3509.1 -33.76 174.26
 121.03 4 12 4 2824.77 -30.10 84.15 247.78 60.68 4 59 9 2224.8 -33.75 76.17
 58.97 21 15 28 4109.12 -30.11 182.24 247.79 60.70 22 23 57 3509.1 -33.76 174.26
 121.03 4 12 4 2824.77 -30.10 84.15 247.78 60.68 4 59 9 2224.8 -33.75 76.17
 58.97 21 15 28 4109.12 -30.11 182.24 247.79 60.70 22 23 57 3509.1 -33.76 174.26
 121.03 4 12 4 2824.77 -30.10 84.15 247.78 60.68 4 59 9 2224.8 -33.75 76.17

DIFFERENTIAL CORRECTIONS

TOE 2.1345 TRA 1.2315 TC3-3.0525 BAU .6055
 ROE .4436 RRA .1766 RC3 -.2104 FAU .12857
 FOE 5.6496 FRA 4.4655 FC3-7.5192 BSP 14410
 BOE 2.1801 BRA 1.2441 BC3 3.0598 FSP -4060

MID-COURSE EXECUTION ACCURACY

SGT 4640.2 SGR 764.3 SG3 1165.5
 RRT .9383 RRF .9280 RTF .9867
 SGB 4702.7 R23 -.0023 R13 .9868
 SG1 4695.5 SG2 261.2 THA 8.81

ORBIT DETERMINATION ACCURACY

ST 3262.0 SR 668.9 SS 2646.1
 CRT .9975 CRS -.9891 CST -.9969
 LSA 4249.6 MSA 175.1 SSA 9.7
 EL1 3329.6 EL2 45.9 ALF 11.56

LAUNCH DATE DEC 20 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 508.211

RL 147.18 LAL .00 LOL 88.18 VL 27.715 GAL 4.01 AZL 86.07 MCA 228.75 SMA 128.18 ECC .16353 INC 3.9303 V1 30.271
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.431 GAP 3.77 AZP 92.59 TAL 158.69 TAP 27.44 RCA 107.22 APO 149.14 V2 34.784
 RC 110.446 GL 29.22 GP -9.55 ZAL 57.94 ZAP 133.34 ETS 351.85 ZAE 137.54 ETE 189.85 ZAC 99.43 ETC 168.00 CLP-134.11

PLANETOCENTRIC CONIC

C3 15.068 VML 3.882 DLA 40.56 RAL 21.01 RAD 6567.6 VEL 11.681 PTH 2.05 VMP 3.616 DPA -10.55 RAP 7.88 ECC 1.2480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.66 21 24 16 4104.61 -29.67 181.57 249.30 60.97 22 32 40 3504.6 -33.29 173.61
 120.34 4 14 47 2837.20 -29.65 84.93 249.29 60.95 5 2 5 2237.2 -33.27 76.98
 59.66 21 24 16 4104.61 -29.67 181.57 249.30 60.97 22 32 40 3504.6 -33.29 173.61
 120.34 4 14 47 2837.20 -29.65 84.93 249.29 60.95 5 2 5 2237.2 -33.27 76.98
 59.66 21 24 16 4104.61 -29.67 181.57 249.30 60.97 22 32 40 3504.6 -33.29 173.61
 120.34 4 14 47 2837.20 -29.65 84.93 249.29 60.95 5 2 5 2237.2 -33.27 76.98

DIFFERENTIAL CORRECTIONS

TOE 2.2107 TRA 1.3739 TC3-3.1617 BAU .6376
 ROE .4145 RRA .1541 RC3 -.1509 FAU .11828
 FOE 5.1502 FRA 4.3150 FC3-6.7958 BSP 15237
 BOE 2.2492 BRA 1.3825 BC3 3.1653 FSP -3782

MID-COURSE EXECUTION ACCURACY

SGT 4878.2 SGR 691.1 SG3 1078.8
 RRT .9145 RRF .9014 RTF .9872
 SGB 4926.9 R23 -.0105 R13 .9872
 SG1 4919.1 SG2 277.4 THA 7.41

ORBIT DETERMINATION ACCURACY

ST 3360.7 SR 618.4 SS 2502.3
 CRT .9954 CRS -.9849 CST -.9969
 LSA 4231.7 MSA 175.1 SSA 10.3
 EL1 3416.6 EL2 58.4 ALF 10.38

LAUNCH DATE DEC 20 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 514.297

RL 147.18 LAL .00 LOL 88.18 VL 27.701 GAL 4.19 AZL 86.13 MCA 231.91 SMA 128.09 ECC .16562 INC 3.8658 V1 30.271
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.422 GAP 4.13 AZP 92.39 TAL 158.02 TAP 29.93 RCA 106.87 APO 149.30 V2 34.786
 RC 112.844 GL 28.34 GP -8.73 ZAL 56.85 ZAP 136.46 ETS 351.68 ZAE 135.84 ETE 188.25 ZAC 99.34 ETC 167.88 CLP-137.18

PLANETOCENTRIC CONIC

C3 15.400 VML 3.924 DLA 40.10 RAL 22.48 RAD 6567.6 VEL 11.695 PTH 2.06 VMP 3.772 DPA -9.77 RAP 7.62 ECC 1.2534
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.33 21 33 10 4101.01 -29.20 180.97 250.92 61.19 22 41 31 3501.0 -32.80 173.04
 119.67 4 17 38 2850.61 -29.19 85.77 250.91 61.18 5 5 9 2250.6 -32.79 77.85
 60.33 21 33 10 4101.01 -29.20 180.97 250.92 61.19 22 41 31 3501.0 -32.80 173.04
 119.67 4 17 38 2850.61 -29.19 85.77 250.91 61.18 5 5 9 2250.6 -32.79 77.85
 60.33 21 33 10 4101.01 -29.20 180.97 250.92 61.19 22 41 31 3501.0 -32.80 173.04
 119.67 4 17 38 2850.61 -29.19 85.77 250.91 61.18 5 5 9 2250.6 -32.79 77.85

DIFFERENTIAL CORRECTIONS

TOE 2.2777 TRA 1.5201 TC3-3.2395 BAU .6673
 ROE .3929 RRA .1347 RC3 -.1011 FAU .10836
 FOE 4.6939 FRA 4.1665 FC3-6.0917 BSP 15998
 BOE 2.3113 BRA 1.5261 BC3 3.2411 FSP -3511

MID-COURSE EXECUTION ACCURACY

SGT 5093.4 SGR 633.7 SG3 996.7
 RRT .8848 RRF .8695 RTF .9875
 SGB 5132.6 R23 -.0153 R13 .9874
 SG1 5124.2 SG2 293.5 THA 6.30

ORBIT DETERMINATION ACCURACY

ST 3438.3 SR 578.8 SS 2365.1
 CRT .9924 CRS -.9797 CST -.9969
 LSA 4209.5 MSA 175.5 SSA 10.8
 EL1 3486.0 EL2 70.4 ALF 9.49

LAUNCH DATE DEC 20 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 520.360

RL 147.18 LAL .00 LOL 88.18 VL 27.686 GAL 4.38 AZL 86.19 MCA 235.07 SMA 127.98 ECC .16791 INC 3.8066 V1 30.271
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.413 GAP 4.50 AZP 92.18 TAL 157.31 TAP 32.38 RCA 106.49 APO 149.47 V2 34.789
 RC 115.239 GL 27.45 GP -8.02 ZAL 55.74 ZAP 139.36 ETS 351.55 ZAE 134.30 ETE 186.96 ZAC 99.48 ETC 167.82 CLP-140.02

PLANETOCENTRIC CONIC

C3 15.803 VML 3.975 DLA 39.66 RAL 23.98 RAD 6567.6 VEL 11.713 PTH 2.06 VMP 3.937 DPA -8.99 RAP 7.61 ECC 1.2601
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.99 21 42 11 4098.23 -28.71 180.43 252.63 61.38 22 50 29 3498.2 -32.29 172.53
 119.01 4 20 34 2865.05 -28.70 86.69 252.62 61.37 5 8 19 2265.0 -32.28 78.80
 60.99 21 42 11 4098.23 -28.71 180.43 252.63 61.38 22 50 29 3498.2 -32.29 172.53
 119.01 4 20 34 2865.05 -28.70 86.69 252.62 61.37 5 8 19 2265.0 -32.28 78.80
 60.99 21 42 11 4098.23 -28.71 180.43 252.63 61.38 22 50 29 3498.2 -32.29 172.53
 119.01 4 20 34 2865.05 -28.70 86.69 252.62 61.37 5 8 19 2265.0 -32.28 78.80

DIFFERENTIAL CORRECTIONS

TOE 2.3371 TRA 1.6706 TC3-3.2880 BAU .6948
 ROE .3777 RRA .1181 RC3 -.0601 FAU .09899
 FOE 4.2806 FRA 4.0224 FC3-5.4232 BSP 16698
 BOE 2.3674 BRA 1.6748 BC3 3.2885 FSP -3256

MID-COURSE EXECUTION ACCURACY

SGT 5287.9 SGR 589.5 SG3 919.9
 RRT .8502 RRF .8333 RTF .9876
 SGB 5320.6 R23 -.0177 R13 .9876
 SG1 5311.6 SG2 309.0 THA 5.43

ORBIT DETERMINATION ACCURACY

ST 3497.5 SR 548.4 SS 2235.5
 CRT .9885 CRS -.9736 CST -.9969
 LSA 4183.3 MSA 176.4 SSA 11.3
 EL1 3539.3 EL2 81.9 ALF 8.82

LAUNCH DATE DEC 20 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 526.402

RL 147.18 LAL .00 LOL 88.18 VL 27.670 GAL 4.59 AZL 86.25 MCA 238.24 SMA 127.88 ECC .17042 INC 3.7518 V1 30.271
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.404 GAP 4.88 AZP 91.98 TAL 156.57 TAP 34.80 RCA 106.08 APO 149.67 V2 34.792
 RC 117.630 GL 26.57 GP -7.39 ZAL 54.59 ZAP 142.04 ETS 351.45 ZAE 132.90 ETE 185.90 ZAC 99.84 ETC 167.79 CLP-142.66

PLANETOCENTRIC CONIC

C3 16.279 VHL 4.035 DLA 39.21 RAL 25.50 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 4.113 DPA -8.21 RAP 7.81 ECC 1.2679
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.66 21 51 24 4096.07 -28.20 179.93 254.43 61.54 22 59 40 3496.1 -31.77 172.07
 118.34 4 23 31 2880.70 -28.19 87.69 254.42 61.53 5 11 31 2280.7 -31.75 79.83
 61.66 21 51 24 4096.07 -28.20 179.93 254.43 61.54 22 59 40 3496.1 -31.77 172.07
 118.34 4 23 31 2880.70 -28.19 87.69 254.42 61.53 5 11 31 2280.7 -31.75 79.83
 61.66 21 51 24 4096.07 -28.20 179.93 254.43 61.54 22 59 40 3496.1 -31.77 172.07
 118.34 4 23 31 2880.70 -28.19 87.69 254.42 61.53 5 11 31 2280.7 -31.75 79.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3903 TRA 1.8271 TC3-3.3072 BAU .7198 SGT 5464.3 SGR 556.6 SG3 848.9 ST 3540.9 SR 525.5 SS 2114.0
 RDE .3679 RRA .1042 RC3 -.0270 FAU .09016 RRT .8124 RRF .7944 RTF .9876 CRT .9839 CRS -.9667 CST -.9968
 FDE 3.9090 FRA 3.8868 FC3-4.7946 BSP 17328 SGB 5492.5 R23 -.0184 R13 .9876 LSA 4153.4 MSA 177.8 SSA 11.8
 BOE 2.4185 BRA 1.8300 BC3 3.3073 FSP -3013 SGI 5483.0 SG2 323.5 THA 4.75 EL1 3578.4 EL2 93.0 ALF 8.31

LAUNCH DATE DEC 20 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 532.420

RL 147.18 LAL .00 LOL 88.18 VL 27.654 GAL 4.82 AZL 86.30 MCA 241.40 SMA 127.76 ECC .17316 INC 3.7006 V1 30.271
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.396 GAP 5.26 AZP 91.77 TAL 155.79 TAP 37.19 RCA 105.64 APO 149.89 V2 34.796
 RC 120.015 GL 25.69 GP -6.84 ZAL 53.41 ZAP 144.55 ETS 351.36 ZAE 131.63 ETE 185.05 ZAC 100.39 ETC 167.79 CLP-145.13

PLANETOCENTRIC CONIC

C3 16.833 VHL 4.103 DLA 38.77 RAL 27.05 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 4.297 DPA -7.42 RAP 8.22 ECC 1.2770
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.33 22 0 46 4094.54 -27.67 179.47 256.32 61.68 23 9 0 3494.5 -31.22 171.65
 117.67 4 26 28 2897.56 -27.65 88.76 256.31 61.66 5 14 45 2297.6 -31.21 80.95
 62.33 22 0 46 4094.54 -27.67 179.47 256.32 61.68 23 9 0 3494.5 -31.22 171.65
 117.67 4 26 28 2897.56 -27.65 88.76 256.31 61.66 5 14 45 2297.6 -31.21 80.95
 62.33 22 0 46 4094.54 -27.67 179.47 256.32 61.68 23 9 0 3494.5 -31.22 171.65
 117.67 4 26 28 2897.56 -27.65 88.76 256.31 61.66 5 14 45 2297.6 -31.21 80.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4396 TRA 1.9921 TC3-3.2958 BAU .7417 SGT 5626.1 SGR 532.9 SG3 783.9 ST 3572.0 SR 508.8 SS 2001.8
 RDE .3626 RRA .0928 RC3 -.0004 FAU .08173 RRT .7734 RRF .7552 RTF .9875 CRT .9785 CRS -.9591 CST -.9968
 FDE 3.5780 FRA 3.7640 FC3-4.2034 BSP 17855 SGB 5651.3 R23 -.0178 R13 .9874 LSA 4122.2 MSA 179.8 SSA 12.2
 BOE 2.4664 BRA 1.9943 BC3 3.2958 FSP -2778 SGI 5641.2 SG2 336.9 THA 4.21 EL1 3606.5 EL2 103.8 ALF 7.94

LAUNCH DATE DEC 20 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 538.413

RL 147.18 LAL .00 LOL 88.18 VL 27.636 GAL 5.06 AZL 86.35 MCA 244.56 SMA 127.64 ECC .17614 INC 3.6524 V1 30.271
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.387 GAP 5.64 AZP 91.57 TAL 154.99 TAP 39.55 RCA 105.16 APO 150.13 V2 34.800
 RC 122.394 GL 24.81 GP -6.36 ZAL 52.20 ZAP 146.88 ETS 351.28 ZAE 130.48 ETE 184.34 ZAC 101.11 ETC 167.81 CLP-147.43

PLANETOCENTRIC CONIC

C3 17.471 VHL 4.180 DLA 38.33 RAL 28.61 RAD 6567.7 VEL 11.784 PTH 2.08 VHP 4.491 DPA -6.62 RAP 8.80 ECC 1.2875
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.01 22 10 18 4093.57 -27.10 179.05 258.28 61.79 23 18 32 3493.6 -30.64 171.27
 116.99 4 29 22 2915.70 -27.09 89.93 258.28 61.78 5 17 58 2315.7 -30.63 82.15
 63.01 22 10 18 4093.57 -27.10 179.05 258.28 61.79 23 18 32 3493.6 -30.64 171.27
 116.99 4 29 22 2915.70 -27.09 89.93 258.28 61.78 5 17 58 2315.7 -30.63 82.15
 63.01 22 10 18 4093.57 -27.10 179.05 258.28 61.79 23 18 32 3493.6 -30.64 171.27
 116.99 4 29 22 2915.70 -27.09 89.93 258.28 61.78 5 17 58 2315.7 -30.63 82.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4810 TRA 2.1619 TC3-3.2666 BAU .7630 SGT 5770.1 SGR 515.9 SG3 723.8 ST 3585.7 SR 496.5 SS 1893.5
 RDE .3608 RRA .0834 RC3 .0194 FAU .07422 RRT .7351 RRF .7170 RTF .9874 CRT .9726 CRS -.9508 CST -.9967
 FDE 3.2750 FRA 3.6448 FC3-3.6778 BSP 18399 SGB 5793.1 R23 -.0169 R13 .9873 LSA 4081.1 MSA 182.4 SSA 12.5
 BOE 2.5071 BRA 2.1635 BC3 3.2667 FSP -2575 SGI 5782.6 SG2 349.0 THA 3.77 EL1 3618.1 EL2 114.5 ALF 7.68

LAUNCH DATE DEC 20 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 544.381

RL 147.18 LAL .00 LOL 88.18 VL 27.618 GAL 5.33 AZL 86.39 MCA 247.73 SMA 127.52 ECC .17937 INC 3.6066 V1 30.271
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.378 GAP 6.03 AZP 91.37 TAL 154.16 TAP 41.88 RCA 104.65 APO 150.39 V2 34.805
 RC 124.766 GL 23.92 GP -5.93 ZAL 50.97 ZAP 149.07 ETS 351.18 ZAE 129.45 ETE 183.75 ZAC 101.98 ETC 167.84 CLP-149.59

PLANETOCENTRIC CONIC

C3 18.199 VHL 4.266 DLA 37.88 RAL 30.18 RAD 6567.7 VEL 11.814 PTH 2.09 VHP 4.694 DPA -5.82 RAP 9.53 ECC 1.2995
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.71 22 20 3 4093.00 -26.51 178.65 260.32 61.88 23 28 16 3493.0 -30.04 170.91
 116.29 4 32 10 2935.29 -26.50 91.18 260.31 61.87 5 21 5 2335.3 -30.03 83.45
 63.71 22 20 3 4093.00 -26.51 178.65 260.32 61.88 23 28 16 3493.0 -30.04 170.91
 116.29 4 32 10 2935.29 -26.50 91.18 260.31 61.87 5 21 5 2335.3 -30.03 83.45
 63.71 22 20 3 4093.00 -26.51 178.65 260.32 61.88 23 28 16 3493.0 -30.04 170.91
 116.29 4 32 10 2935.29 -26.50 91.18 260.31 61.87 5 21 5 2335.3 -30.03 83.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.5177 TRA 2.3392 TC3-3.2168 BAU .7827 SGT 5900.0 SGR 504.1 SG3 668.6 ST 3587.0 SR 488.0 SS 1791.6
 RDE .3622 RRA .0759 RC3 .0338 FAU .06735 RRT .6993 RRF .6817 RTF .9871 CRT .9661 CRS -.9422 CST -.9967
 FDE 3.0020 FRA 3.5338 FC3-3.2038 BSP 18904 SGB 5921.5 R23 -.0157 R13 .9871 LSA 4034.8 MSA 185.4 SSA 12.8
 BOE 2.5436 BRA 2.3404 BC3 3.2170 FSP -2388 SGI 5910.6 SG2 359.7 THA 3.43 EL1 3617.9 EL2 124.9 ALF 7.50

LAUNCH DATE DEC 20 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 550.321

RL 147.18 LAL .00 LOL 88.18 VL 27.599 GAL 5.61 AZL 86.44 MCA 250.89 SMA 127.39 ECC .18286 INC 3.5629 V1 30.271
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.370 GAP 6.43 AZP 91.17 TAL 153.30 TAP 44.19 RCA 104.10 APO 150.69 V2 34.811
 RC 127.128 GL 23.04 GP -5.55 ZAL 49.73 ZAP 151.13 ETS 351.08 ZAE 128.52 ETE 183.27 ZAC 102.99 ETC 167.88 CLP-151.62

PLANETOCENTRIC CONIC

C3 19.028 VHL 4.362 DLA 37.43 RAL 31.76 RAD 6567.8 VEL 11.849 PTH 2.10 VHP 4.906 DPA -5.00 RAP 10.40 ECC 1.3132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.43 22 30 1 4092.77 -25.88 178.26 262.43 61.97 23 38 14 3492.8 -29.42 170.57
 115.57 4 34 48 2956.42 -25.87 92.54 262.42 61.95 5 24 4 2356.4 -29.40 84.85
 64.43 22 30 1 4092.77 -25.88 178.26 262.43 61.97 23 38 14 3492.8 -29.42 170.57
 115.57 4 34 48 2956.42 -25.87 92.54 262.42 61.95 5 24 4 2356.4 -29.40 84.85
 64.43 22 30 1 4092.77 -25.88 178.26 262.43 61.97 23 38 14 3492.8 -29.42 170.57
 115.57 4 34 48 2956.42 -25.87 92.54 262.42 61.95 5 24 4 2356.4 -29.40 84.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.5509 TRA 2.5260 TC3-3.1460 BAU .8004 SGT 6018.0 SGR 496.5 SG3 618.3 ST 3578.3 SR 482.4 SS 1696.9
 RDE .3663 RRA .0706 RC3 .0440 FAU .06098 RRT .6674 RRF .6507 RTF .9869 CRT .9593 CRS -.9332 CST -.9967
 FDE 2.7576 FRA 3.4329 FC3-2.7745 BSP 19357 SGB 6038.4 R23 -.0140 R13 .9868 LSA 3985.0 MSA 189.0 SSA 13.0
 BOE 2.5770 BRA 2.5270 BC3 3.1463 FSP -2214 SG1 6027.1 SG2 369.2 THA 3.16 EL1 3608.1 EL2 135.2 ALF 7.38

LAUNCH DATE DEC 20 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 556.231

RL 147.18 LAL .00 LOL 88.18 VL 27.579 GAL 5.91 AZL 86.48 MCA 254.06 SMA 127.26 ECC .18664 INC 3.5208 V1 30.271
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.362 GAP 6.84 AZP 90.97 TAL 152.42 TAP 46.48 RCA 103.51 APO 151.01 V2 34.818
 RC 129.481 GL 22.15 GP -5.21 ZAL 48.47 ZAP 153.07 ETS 350.96 ZAE 127.69 ETE 182.87 ZAC 104.12 ETC 167.91 CLP-153.54

PLANETOCENTRIC CONIC

C3 19.967 VHL 4.468 DLA 36.97 RAL 33.34 RAD 6567.8 VEL 11.889 PTH 2.11 VHP 5.128 DPA -4.18 RAP 11.40 ECC 1.3286
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.17 22 40 10 4092.89 -25.23 177.88 264.60 62.03 23 48 23 3492.9 -28.76 170.24
 114.83 4 37 15 2979.11 -25.22 94.00 264.59 62.02 5 26 54 2379.1 -28.75 86.36
 65.17 22 40 10 4092.89 -25.23 177.88 264.60 62.03 23 48 23 3492.9 -28.76 170.24
 114.83 4 37 15 2979.11 -25.22 94.00 264.59 62.02 5 26 54 2379.1 -28.75 86.36
 65.17 22 40 10 4092.89 -25.23 177.88 264.60 62.03 23 48 23 3492.9 -28.76 170.24
 114.83 4 37 15 2979.11 -25.22 94.00 264.59 62.02 5 26 54 2379.1 -28.75 86.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.5805 TRA 2.7231 TC3-3.0576 BAU .8163 SGT 6124.8 SGR 491.8 SG3 572.5 ST 3560.0 SR 478.9 SS 1608.2
 RDE .3726 RRA .0671 RC3 .0504 FAU .05512 RRT .6401 RRF .6246 RTF .9865 CRT .9521 CRS -.9240 CST -.9966
 FDE 2.5373 FRA 3.3414 FC3-2.3900 BSP 19779 SGB 6144.5 R23 -.0121 R13 .9865 LSA 3930.9 MSA 193.2 SSA 13.2
 BOE 2.6072 BRA 2.7239 BC3 3.0580 FSP -2056 SG1 6132.9 SG2 377.4 THA 2.95 EL1 3589.1 EL2 145.3 ALF 7.31

LAUNCH DATE DEC 20 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 562.111

RL 147.18 LAL .00 LOL 88.18 VL 27.559 GAL 6.23 AZL 86.52 MCA 257.23 SMA 127.12 ECC .19073 INC 3.4800 V1 30.271
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.353 GAP 7.26 AZP 90.77 TAL 151.53 TAP 48.75 RCA 102.88 APO 151.37 V2 34.825
 RC 131.823 GL 21.26 GP -4.91 ZAL 47.21 ZAP 154.91 ETS 350.80 ZAE 126.93 ETE 182.53 ZAC 105.36 ETC 167.95 CLP-155.36

PLANETOCENTRIC CONIC

C3 21.028 VHL 4.586 DLA 36.50 RAL 34.92 RAD 6567.9 VEL 11.933 PTH 2.12 VHP 5.360 DPA -3.34 RAP 12.50 ECC 1.3461
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.94 22 50 32 4093.25 -24.54 177.51 266.83 62.09 23 58 45 3493.3 -28.07 169.92
 114.06 4 39 28 3003.51 -24.53 95.57 266.82 62.08 5 29 32 2403.5 -28.06 87.97
 65.94 22 50 32 4093.25 -24.54 177.51 266.83 62.09 23 58 45 3493.3 -28.07 169.92
 114.06 4 39 28 3003.51 -24.53 95.57 266.82 62.08 5 29 32 2403.5 -28.06 87.97
 65.94 22 50 32 4093.25 -24.54 177.51 266.83 62.09 23 58 45 3493.3 -28.07 169.92
 114.06 4 39 28 3003.51 -24.53 95.57 266.82 62.08 5 29 32 2403.5 -28.06 87.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6103 TRA 2.9338 TC3-2.9475 BAU .8287 SGT 6224.0 SGR 489.4 SG3 531.0 ST 3537.7 SR 477.1 SS 1527.7
 RDE .3811 RRA .0656 RC3 .0542 FAU .04953 RRT .6181 RRF .6042 RTF .9862 CRT .9447 CRS -.9149 CST -.9966
 FDE 2.3427 FRA 3.2616 FC3-2.0393 BSP 20087 SGB 6243.2 R23 -.0099 R13 .9861 LSA 3877.8 MSA 197.6 SSA 13.3
 BOE 2.6380 BRA 2.9345 BC3 2.9480 FSP -1901 SG1 6231.4 SG2 384.3 THA 2.79 EL1 3566.4 EL2 155.2 ALF 7.27

LAUNCH DATE DEC 20 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 567.956

RL 147.18 LAL .00 LOL 88.18 VL 27.539 GAL 6.58 AZL 86.56 MCA 260.39 SMA 126.99 ECC .19514 INC 3.4401 V1 30.271
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.345 GAP 7.69 AZP 90.57 TAL 150.61 TAP 51.01 RCA 102.21 APO 151.77 V2 34.833
 RC 134.153 GL 20.38 GP -4.64 ZAL 45.93 ZAP 156.65 ETS 350.62 ZAE 126.24 ETE 182.25 ZAC 106.70 ETC 167.97 CLP-157.09

PLANETOCENTRIC CONIC

C3 22.226 VHL 4.714 DLA 36.02 RAL 36.48 RAD 6567.9 VEL 11.984 PTH 2.14 VHP 5.603 DPA -2.50 RAP 13.69 ECC 1.3658
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.74 23 1 8 4093.75 -23.83 177.13 269.11 62.15 24 9 21 3493.7 -27.36 169.59
 113.26 4 41 24 3029.74 -23.81 97.26 269.10 62.13 5 31 54 2429.7 -27.34 89.71
 66.74 23 1 8 4093.75 -23.83 177.13 269.11 62.15 24 9 21 3493.7 -27.36 169.59
 113.26 4 41 24 3029.74 -23.81 97.26 269.10 62.13 5 31 54 2429.7 -27.34 89.71
 66.74 23 1 8 4093.75 -23.83 177.13 269.11 62.15 24 9 21 3493.7 -27.36 169.59
 113.26 4 41 24 3029.74 -23.81 97.26 269.10 62.13 5 31 54 2429.7 -27.34 89.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6341 TRA 3.1528 TC3-2.8303 BAU .8412 SGT 6309.8 SGR 488.1 SG3 492.6 ST 3503.5 SR 476.1 SS 1450.3
 RDE .3910 RRA .0656 RC3 .0552 FAU .04459 RRT .6005 RRF .5880 RTF .9858 CRT .9371 CRS -.9055 CST -.9966
 FDE 2.1633 FRA 3.1853 FC3-1.7370 BSP 20449 SGB 6328.6 R23 -.0079 R13 .9858 LSA 3816.2 MSA 202.4 SSA 13.3
 BOE 2.6629 BRA 3.1534 BC3 2.8309 FSP -1769 SG1 6316.6 SG2 389.8 THA 2.67 EL1 3531.9 EL2 164.8 ALF 7.27

LAUNCH DATE DEC 20 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 27.518 GAL 6.95 AZL 86.60 MCA 263.56 SMA 126.85 ECC .19991 INC 3.4010 V1 30.271
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.338 GAP 8.14 AZP 90.38 TAL 149.68 TAP 53.25 RCA 101.49 APO 152.20 V2 34.841
 RC 136.471 GL 19.50 GP -4.40 ZAL 44.66 ZAP 158.31 ETS 350.39 ZAE 125.62 ETE 182.01 ZAC 108.11 ETC 167.99 CLP-158.74

PLANETOCENTRIC CONIC
 C3 23.578 VHL 4.856 DLA 35.54 RAL 38.04 RAD 6568.0 VEL 12.040 PTH 2.15 VHP 5.857 OPA -1.66 RAP 14.98 ECC 1.3880
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.57 23 11 55 4094.40 -23.08 176.75 271.44 62.19 24 20 10 3494.4 -26.61 169.26
 112.43 4 43 1 3057.84 -23.06 99.06 271.43 62.18 5 33 58 2457.8 -26.59 91.57
 67.57 23 11 55 4094.40 -23.08 176.75 271.44 62.19 24 20 10 3494.4 -26.61 169.26
 112.43 4 43 1 3057.84 -23.06 99.06 271.43 62.18 5 33 58 2457.8 -26.59 91.57
 67.57 23 11 55 4094.40 -23.08 176.75 271.44 62.19 24 20 10 3494.4 -26.61 169.26
 112.43 4 43 1 3057.84 -23.06 99.06 271.43 62.18 5 33 58 2457.8 -26.59 91.57

DIFFERENTIAL CORRECTIONS
 TOE 2.6566 TRA 3.3849 TC3-2.7011 BAU .8516 SGT 6387.3 SGR 487.6 SG3 457.6 ST 3464.2 SR 475.6 SS 1378.8
 RDE .4023 RRA .0675 RC3 .0542 FAU .04003 RRT .5877 RRF .5765 RTF .9854 CRT .9293 CRS -.8962 CST -.9966
 FDE 2.0024 FRA 3.1171 FC3-1.4699 BSP 20770 SGB 6405.9 R23 -.0059 R13 .9854 LSA 3753.0 MSA 207.4 SSA 13.3
 BOE 2.6869 BRA 3.3856 BC3 2.7017 FSP -1646 SG1 6393.8 SG2 394.1 THA 2.58 EL1 3492.4 EL2 174.2 ALF 7.29

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 20 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 27.496 GAL 7.35 AZL 86.64 MCA 266.74 SMA 126.70 ECC .20507 INC 3.3624 V1 30.271
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.330 GAP 8.61 AZP 90.19 TAL 148.74 TAP 55.48 RCA 100.72 APO 152.69 V2 34.850
 RC 138.775 GL 18.62 GP -4.18 ZAL 43.39 ZAP 159.90 ETS 350.10 ZAE 125.05 ETE 181.82 ZAC 109.61 ETC 167.99 CLP-160.32

PLANETOCENTRIC CONIC
 C3 25.103 VHL 5.010 DLA 35.04 RAL 39.58 RAD 6568.0 VEL 12.103 PTH 2.17 VHP 6.125 DPA -.81 RAP 16.34 ECC 1.4131
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.44 23 22 58 4095.01 -22.30 176.36 273.81 62.24 24 31 13 3495.0 -25.83 168.91
 111.56 4 44 13 3088.01 -22.28 101.01 273.80 62.23 5 35 41 2488.0 -25.82 93.56
 68.44 23 22 58 4095.01 -22.30 176.36 273.81 62.24 24 31 13 3495.0 -25.83 168.91
 111.56 4 44 13 3088.01 -22.28 101.01 273.80 62.23 5 35 41 2488.0 -25.82 93.56
 68.44 23 22 58 4095.01 -22.30 176.36 273.81 62.24 24 31 13 3495.0 -25.83 168.91
 111.56 4 44 13 3088.01 -22.28 101.01 273.80 62.23 5 35 41 2488.0 -25.82 93.56

DIFFERENTIAL CORRECTIONS
 TOE 2.6770 TRA 3.6304 TC3-2.5619 BAU .8600 SGT 6455.5 SGR 487.5 SG3 425.5 ST 3419.3 SR 475.3 SS 1312.1
 RDE .4149 RRA .0711 RC3 .0519 FAU .03581 RRT .5790 RRF .5692 RTF .9851 CRT .9213 CRS -.8868 CST -.9967
 FDE 1.8565 FRA 3.0557 FC3-1.2349 BSP 21067 SGB 6473.9 R23 -.0041 R13 .9851 LSA 3687.0 MSA 212.6 SSA 13.2
 BOE 2.7089 BRA 3.6311 BC3 2.5624 FSP -1534 SG1 6461.7 SG2 397.1 THA 2.51 EL1 3447.3 EL2 183.3 ALF 7.32

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 20 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 27.475 GAL 7.78 AZL 86.68 MCA 269.91 SMA 126.56 ECC .21065 INC 3.3240 V1 30.271
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.323 GAP 9.09 AZP 90.01 TAL 147.80 TAP 57.71 RCA 99.90 APO 153.22 V2 34.860
 RC 141.067 GL 17.74 GP -3.98 ZAL 42.13 ZAP 161.42 ETS 349.75 ZAE 124.53 ETE 181.66 ZAC 111.16 ETC 167.98 CLP-161.84

PLANETOCENTRIC CONIC
 C3 26.826 VHL 5.179 DLA 34.54 RAL 41.09 RAD 6568.1 VEL 12.174 PTH 2.18 VHP 6.406 DPA .05 RAP 17.76 ECC 1.4415
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.35 23 34 17 4095.50 -21.48 175.94 276.23 62.28 24 42 32 3495.5 -25.02 168.54
 110.65 4 45 0 3120.35 -21.47 103.09 276.22 62.27 5 37 0 2520.4 -25.01 95.70
 69.35 23 34 17 4095.50 -21.48 175.94 276.23 62.28 24 42 32 3495.5 -25.02 168.54
 110.65 4 45 0 3120.35 -21.47 103.09 276.22 62.27 5 37 0 2520.4 -25.01 95.70
 69.35 23 34 17 4095.50 -21.48 175.94 276.23 62.28 24 42 32 3495.5 -25.02 168.54
 110.65 4 45 0 3120.35 -21.47 103.09 276.22 62.27 5 37 0 2520.4 -25.01 95.70

DIFFERENTIAL CORRECTIONS
 TOE 2.6998 TRA 3.8948 TC3-2.4099 BAU .8644 SGT 6519.8 SGR 487.8 SG3 396.5 ST 3374.5 SR 475.1 SS 1252.5
 RDE .4286 RRA .0766 RC3 .0488 FAU .03175 RRT .5747 RRF .5664 RTF .9847 CRT .9133 CRS -.8777 CST -.9967
 FDE 1.7282 FRA 3.0044 FC3-1.0246 BSP 21251 SGB 6538.0 R23 -.0021 R13 .9847 LSA 3624.1 MSA 217.7 SSA 13.2
 BOE 2.7336 BRA 3.8955 BC3 2.4103 FSP -1423 SG1 6525.8 SG2 398.8 THA 2.47 EL1 3402.4 EL2 191.9 ALF 7.35

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 20 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC
 RL 147.18 LAL .00 LOL 88.18 VL 27.452 GAL 8.24 AZL 86.71 MCA 273.09 SMA 126.41 ECC .21668 INC 3.2856 V1 30.271
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.316 GAP 9.60 AZP 89.82 TAL 146.84 TAP 59.93 RCA 99.02 APO 153.80 V2 34.870
 RC 143.344 GL 16.88 GP -3.80 ZAL 40.88 ZAP 162.89 ETS 349.31 ZAE 124.05 ETE 181.52 ZAC 112.78 ETC 167.95 CLP-163.30

PLANETOCENTRIC CONIC
 C3 28.774 VHL 5.364 DLA 34.03 RAL 42.58 RAD 6568.2 VEL 12.254 PTH 2.20 VHP 6.703 DPA .91 RAP 19.25 ECC 1.4735
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.30 23 45 52 4095.74 -20.64 175.48 278.68 62.33 24 54 8 3495.7 -24.18 168.13
 109.70 4 45 16 3155.04 -20.63 105.33 278.67 62.32 5 37 51 2555.0 -24.17 97.99
 70.30 23 45 52 4095.74 -20.64 175.48 278.68 62.33 24 54 8 3495.7 -24.18 168.13
 109.70 4 45 16 3155.04 -20.63 105.33 278.67 62.32 5 37 51 2555.0 -24.17 97.99
 110.00 5 11 58 3073.60 -23.06 100.30 279.99 64.04 6 3 12 2473.6 -26.35 92.69
 110.00 4 22 16 3225.18 -18.25 109.43 277.30 60.58 5 16 1 2625.2 -22.03 102.34

DIFFERENTIAL CORRECTIONS
 TOE 2.7182 TRA 4.1715 TC3-2.2574 BAU .8685 SGT 6572.5 SGR 487.7 SG3 369.5 ST 3322.1 SR 474.3 SS 1195.4
 RDE .4430 RRA .0837 RC3 .0447 FAU .02815 RRT .5733 RRF .5660 RTF .9844 CRT .9050 CRS -.8684 CST -.9968
 FDE 1.6091 FRA 2.9560 FC3 -.8468 BSP 21506 SGB 6590.5 R23 -.0005 R13 .9844 LSA 3555.3 MSA 222.8 SSA 13.0
 BOE 2.7541 BRA 4.1723 BC3 2.2578 FSP -1329 SG1 6578.4 SG2 399.2 THA 2.44 EL1 3349.8 EL2 200.1 ALF 7.39

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 20 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 596.534

RL 147.18 LAL .00 LOL 88.18 VL 27.430 GAL 8.73 AZL 86.75 HCA 276.26 SMA 126.27 ECC .22323 INC 3.2469 V1 30.271
 RP 108.65 LAP -3.23 LOP 4.45 VP 37.310 GAP 10.13 AZP 89.65 TAL 145.89 TAP 62.16 RCA 98.08 APO 154.45 V2 34.880
 RC 145.608 GL 16.02 GP -3.64 ZAL 39.65 ZAP 164.30 ETS 348.77 ZAE 123.61 ETE 181.42 ZAC 114.44 ETC 167.90 CLP-164.72

PLANETOCENTRIC CONIC

C3 30.980 VHL 5.566 OLA 33.51 RAL 44.03 RAD 6568.2 VEL 12.343 PTH 2.23 VHP 7.017 DPA 1.77 RAP 20.78 ECC 1.5098
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.29 0 1 41 4095.61 -19.77 174.98 281.16 62.38 1 9 57 3495.6 -23.31 167.69
 108.71 4 44 59 3192.19 -19.76 107.74 281.15 62.37 5 38 11 2592.2 -23.30 100.44
 71.29 0 1 41 4095.61 -19.77 174.98 281.16 62.38 1 9 57 3495.6 -23.31 167.69
 108.71 4 44 59 3192.19 -19.76 107.74 281.15 62.37 5 38 11 2592.2 -23.30 100.44
 110.00 5 44 21 3010.40 -24.88 96.30 283.85 65.77 6 34 31 2410.4 -27.94 88.46
 110.00 4 1 29 3325.39 -14.81 115.16 278.23 58.83 4 56 55 2725.4 -18.83 108.35

DIFFERENTIAL CORRECTIONS

TOE 2.7366 TRA 4.4658 TC3-2.1007 BAU .8702
 ROE .4581 RRA .0926 RC3 .0403 FAU .02481
 FDE 1.5015 FRA 2.9140 FC3 -.6933 BSP 21737
 BOE 2.7746 BRA 4.4668 BC3 2.1011 FSP -1242

MID-COURSE EXECUTION ACCURACY

SGT 6618.2 SGR 487.3 SG3 344.8
 RRT .5749 RRF .5685 RTF .9841
 SGB 6636.1 R23 .0009 R13 .9841
 SGI 6624.2 SGT 398.4 THA 2.43

ORBIT DETERMINATION ACCURACY

ST 3267.4 SR 472.8 SS 1143.0
 CRT .8963 CRS -.8592 CST -.9969
 LSA 3486.3 MSA 227.7 SSA 12.9
 EL1 3294.9 EL2 207.7 ALF 7.42

LAUNCH DATE DEC 20 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 602.080

RL 147.18 LAL .00 LOL 88.18 VL 27.408 GAL 9.26 AZL 86.79 HCA 279.44 SMA 126.12 ECC .23033 INC 3.2077 V1 30.271
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.303 GAP 10.70 AZP 89.47 TAL 144.94 TAP 64.39 RCA 97.07 APO 155.17 V2 34.891
 RC 147.857 GL 15.16 GP -3.50 ZAL 38.44 ZAP 165.68 ETS 348.10 ZAE 123.19 ETE 181.33 ZAC 116.15 ETC 167.83 CLP-166.10

PLANETOCENTRIC CONIC

C3 33.483 VHL 5.786 OLA 32.98 RAL 45.45 RAD 6568.3 VEL 12.444 PTH 2.25 VHP 7.350 DPA 2.62 RAP 22.37 ECC 1.5510
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.34 0 13 58 4094.75 -18.87 174.42 283.68 62.44 1 22 13 3494.8 -22.41 167.17
 107.66 4 44 0 3232.16 -18.86 110.32 283.67 62.43 5 37 53 2632.2 -22.40 103.07
 72.34 0 13 58 4094.75 -18.87 174.42 283.68 62.44 1 22 13 3494.8 -22.41 167.17
 107.66 4 44 0 3232.16 -18.86 110.32 283.67 62.43 5 37 53 2632.2 -22.40 103.07
 110.00 6 7 3 2976.90 -25.80 94.13 287.23 66.76 6 56 40 2376.9 -28.72 86.17
 110.00 3 50 6 3398.01 -12.21 119.18 279.71 57.82 4 46 44 2798.0 -16.37 112.55

DIFFERENTIAL CORRECTIONS

TOE 2.7550 TRA 4.7797 TC3-1.9407 BAU .8689
 ROE .4738 RRA .1034 RC3 .0357 FAU .02168
 FDE 1.4045 FRA 2.8783 FC3 -.5605 BSP 21944
 BOE 2.7955 BRA 4.7808 BC3 1.9410 FSP -1161

MID-COURSE EXECUTION ACCURACY

SGT 6657.0 SGR 486.6 SG3 322.1
 RRT .5790 RRF .5735 RTF .9839
 SGB 6674.8 R23 .0021 R13 .9840
 SGI 6663.0 SGT 396.3 THA 2.43

ORBIT DETERMINATION ACCURACY

ST 3211.1 SR 470.6 SS 1095.0
 CRT .8879 CRS -.8500 CST -.9970
 LSA 3417.2 MSA 232.2 SSA 12.7
 EL1 3238.3 EL2 214.7 ALF 7.45

LAUNCH DATE DEC 20 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 607.552

RL 147.18 LAL .00 LOL 88.18 VL 27.385 GAL 9.83 AZL 86.83 HCA 282.62 SMA 125.97 ECC .23805 INC 3.1678 V1 30.271
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.297 GAP 11.29 AZP 89.31 TAL 144.00 TAP 66.63 RCA 95.98 APO 155.96 V2 34.902
 RC 150.092 GL 14.32 GP -3.37 ZAL 37.25 ZAP 167.02 ETS 347.26 ZAE 122.80 ETE 181.26 ZAC 117.89 ETC 167.73 CLP-167.45

PLANETOCENTRIC CONIC

C3 36.330 VHL 6.027 OLA 32.45 RAL 46.83 RAD 6568.4 VEL 12.558 PTH 2.28 VHP 7.705 DPA 3.47 RAP 23.99 ECC 1.5979
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.45 0 26 41 4093.02 -17.95 173.78 286.21 62.51 1 34 54 3493.0 -21.49 166.57
 106.55 4 42 18 3275.11 -17.94 113.11 286.20 62.50 5 36 53 2675.1 -21.47 105.91
 73.45 0 26 41 4093.02 -17.95 173.78 286.21 62.51 1 34 54 3493.0 -21.49 166.57
 106.55 4 42 18 3275.11 -17.94 113.11 286.20 62.50 5 36 53 2675.1 -21.47 105.91
 110.00 6 26 13 2954.45 -26.40 92.66 290.47 67.45 7 15 28 2354.4 -29.21 84.61
 110.00 3 41 56 3461.68 -9.88 122.64 281.38 57.11 4 39 38 2861.7 -14.14 116.14

DIFFERENTIAL CORRECTIONS

TOE 2.7750 TRA 5.1150 TC3-1.7789 BAU .8642
 ROE .4901 RRA .1160 RC3 .0313 FAU .01875
 FDE 1.3175 FRA 2.8488 FC3 -.4467 BSP 22119
 BOE 2.8179 BRA 5.1163 BC3 1.7792 FSP -1086

MID-COURSE EXECUTION ACCURACY

SGT 6689.9 SGR 485.3 SG3 301.2
 RRT .5855 RRF .5807 RTF .9838
 SGB 6707.4 R23 .0032 R13 .9839
 SGI 6695.9 SGT 393.1 THA 2.44

ORBIT DETERMINATION ACCURACY

ST 3154.4 SR 467.5 SS 1051.6
 CRT .8792 CRS -.8411 CST -.9971
 LSA 3349.4 MSA 236.2 SSA 12.4
 EL1 3181.2 EL2 220.9 ALF 7.46

LAUNCH DATE DEC 20 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 612.937

RL 147.18 LAL .00 LOL 88.18 VL 27.362 GAL 10.45 AZL 86.87 HCA 285.81 SMA 125.82 ECC .24646 INC 3.1268 V1 30.271
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.291 GAP 11.92 AZP 89.15 TAL 143.08 TAP 68.88 RCA 94.81 APO 156.83 V2 34.914
 RC 152.312 GL 13.49 GP -3.25 ZAL 36.09 ZAP 168.32 ETS 346.20 ZAE 122.43 ETE 181.20 ZAC 119.66 ETC 167.61 CLP-168.78

PLANETOCENTRIC CONIC

C3 39.578 VHL 6.291 OLA 31.91 RAL 48.16 RAD 6568.5 VEL 12.686 PTH 2.30 VHP 8.083 DPA 4.32 RAP 25.65 ECC 1.6514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.64 0 39 55 4089.98 -17.00 173.03 288.77 62.58 1 48 5 3490.0 -20.54 165.87
 105.36 4 39 42 3321.43 -16.99 116.13 288.76 62.58 5 35 4 2721.4 -20.52 108.96
 74.64 0 39 55 4089.98 -17.00 173.03 288.77 62.58 1 48 5 3490.0 -20.54 165.87
 105.36 4 39 42 3321.43 -16.99 116.13 288.76 62.58 5 35 4 2721.4 -20.52 108.96
 110.00 6 43 18 2938.58 -26.81 91.61 293.63 67.95 7 32 17 2338.6 -29.55 83.50
 110.00 3 35 30 3520.82 -7.67 125.80 283.18 56.59 4 34 10 2920.8 -12.02 119.40

DIFFERENTIAL CORRECTIONS

TOE 2.7992 TRA 5.4766 TC3-1.6141 BAU .8542
 ROE .5069 RRA .1308 RC3 .0273 FAU .01590
 FDE 1.2408 FRA 2.8273 FC3 -.3477 BSP 22204
 BOE 2.8447 BRA 5.4781 BC3 1.6143 FSP -1012

MID-COURSE EXECUTION ACCURACY

SGT 6719.1 SGR 483.7 SG3 282.2
 RRT .5943 RRF .5900 RTF .9838
 SGB 6736.5 R23 .0042 R13 .9839
 SGI 6725.2 SGT 388.7 THA 2.46

ORBIT DETERMINATION ACCURACY

ST 3100.0 SR 463.5 SS 1013.3
 CRT .8706 CRS -.8325 CST -.9973
 LSA 3285.4 MSA 239.6 SSA 12.2
 EL1 3126.3 EL2 226.2 ALF 7.46

LAUNCH DATE DEC 21 1968

FLIGHT TIME 70.00

ARRIVAL DATE MAR 1 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 18.481 GAL 18.05 AZL 85.99 MCA 46.84 SMA 90.77 ECC .66702 INC 4.0145 V1 30.273
 RP 107.48 LAP 2.93 LOP 135.97 VP 31.741 GAP -40.71 AZP 87.25 TAL 170.37 TAP 217.21 RCA 30.23 APO 151.32 V2 35.258
 RC 67.184 GL 5.02 GP 1.05 ZAL 65.48 ZAP 28.41 ETS 181.83 ZAE 142.34 ETE 190.77 ZAC 79.09 ETC 165.60 CLP 28.39

PLANETOCENTRIC CONIC
 C3 198.046 VHL 14.073 OLA 13.90 RAL 20.14 RAD 6571.1 VEL 17.871 PTH 3.00 VMP 23.562 DPA -8.30 RAP 346.55 ECC 4.2593
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 54 3 3178.65 -26.37 109.24 285.87 79.29 5 47 2 2578.7 -27.58 100.79
 90.00 20 30 14 4928.74 21.21 214.93 273.55 70.78 21 52 23 4328.7 18.39 207.38
 100.00 6 22 45 2892.63 -28.12 88.58 286.24 79.43 7 10 57 2292.6 -29.30 79.97
 100.00 21 44 14 4690.00 22.89 196.73 272.91 70.23 23 2 24 4090.0 19.99 189.14
 110.00 7 47 28 2627.54 -32.79 69.44 287.23 79.75 8 31 16 2027.5 -33.86 60.36
 110.00 22 36 0 4527.85 27.33 182.59 271.07 68.62 23 51 28 3927.9 24.18 174.84

DIFFERENTIAL CORRECTIONS
 TDE -.6658 TRA-1.7156 TC3 -.1133 BAU .3042 SGT 832.5 SGR 446.5 SG3 30.2 ST 346.7 SR 410.7 SS 334.0
 RDE -1.0004 RRA .4179 RC3 -.0187 FAU .01306 RRT .0030 RRF -.0055 RTF -.6383 CRT .6959 CRS .7912 CST .9881
 FDE .3477 FRA .6575 FC3 -.0571 BSP 2202 SGB 944.7 R23 -.0028 R13 -.6383 LSA 591.1 MSA 225.2 SSA 13.7
 BOE 1.2017 BRA 1.7658 BC3 .1149 FSP -64 SG1 832.5 SG2 446.5 THA .13 EL1 496.4 EL2 206.0 ALF 51.88

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 72.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 19.155 GAL 17.27 AZL 86.06 MCA 50.09 SMA 92.37 ECC .63950 INC 3.9385 V1 30.273
 RP 107.48 LAP 3.02 LOP 139.22 VP 32.137 GAP -38.81 AZP 87.47 TAL 169.61 TAP 219.70 RCA 33.30 APO 151.45 V2 35.257
 RC 65.159 GL 5.38 GP 1.08 ZAL 64.37 ZAP 26.88 ETS 182.12 ZAE 142.91 ETE 191.40 ZAC 80.75 ETC 165.75 CLP 26.86

PLANETOCENTRIC CONIC
 C3 179.849 VHL 13.411 OLA 14.66 RAL 21.09 RAD 6570.9 VEL 17.354 PTH 2.95 VMP 22.617 DPA -7.60 RAP 348.13 ECC 3.9599
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 51 3 3189.86 -26.23 110.03 285.95 78.92 5 44 13 2589.9 -27.49 101.59
 90.00 20 40 47 4886.72 20.24 212.22 273.31 69.76 22 2 13 4286.7 17.30 204.78
 100.00 6 20 16 2902.13 -28.00 89.26 286.34 79.09 7 8 38 2302.1 -29.22 80.66
 100.00 21 54 15 4649.69 21.94 194.12 272.63 69.17 23 11 44 4049.7 18.91 186.63
 110.00 7 46 7 2633.50 -32.72 69.89 287.37 79.50 8 30 1 2033.5 -33.82 60.83
 110.00 22 44 53 4491.08 26.40 180.14 270.69 67.45 23 59 44 3891.1 23.11 172.53

DIFFERENTIAL CORRECTIONS
 TDE -.6639 TRA-1.7182 TC3 -.1193 BAU .2913 SGT 871.0 SGR 451.1 SG3 32.7 ST 363.8 SR 415.4 SS 349.4
 RDE -.9646 RRA .3956 RC3 -.0209 FAU .01327 RRT .0058 RRF -.0085 RTF -.6578 CRT .6946 CRS .7922 CST .9877
 FDE .3612 FRA .6810 FC3 -.0639 BSP 2376 SGB 980.9 R23 -.0033 R13 -.6578 LSA 611.0 MSA 231.4 SSA 14.0
 BOE 1.1710 BRA 1.7631 BC3 .1212 FSP -71 SG1 871.0 SG2 451.1 THA .23 EL1 509.3 EL2 213.5 ALF 50.42

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 74.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 19.784 GAL 16.53 AZL 86.13 MCA 53.34 SMA 93.98 ECC .61263 INC 3.8693 V1 30.273
 RP 107.49 LAP 3.10 LOP 142.47 VP 32.513 GAP -37.00 AZP 87.69 TAL 168.86 TAP 222.20 RCA 36.40 APO 151.55 V2 35.254
 RC 63.173 GL 5.75 GP 1.12 ZAL 63.31 ZAP 25.37 ETS 182.45 ZAE 143.60 ETE 192.07 ZAC 82.42 ETC 165.88 CLP 25.35

PLANETOCENTRIC CONIC
 C3 163.412 VHL 12.783 OLA 15.40 RAL 21.98 RAD 6570.8 VEL 16.874 PTH 2.91 VMP 21.706 DPA -6.89 RAP 349.73 ECC 3.6893
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 47 47 3200.26 -26.09 110.76 285.90 78.58 5 41 8 2600.3 -27.40 102.34
 90.00 20 51 8 4844.02 19.21 209.51 273.02 68.79 22 11 52 4244.0 16.16 202.17
 100.00 6 17 34 2910.76 -27.89 89.87 286.31 78.79 7 6 4 2310.8 -29.15 81.30
 100.00 22 4 2 4608.76 20.92 191.50 272.30 68.15 23 20 51 4008.8 17.77 184.12
 110.00 7 44 34 2638.50 -32.65 70.27 287.38 79.28 8 28 33 2038.5 -33.79 61.21
 110.00 22 53 31 4453.78 25.40 177.70 270.26 66.31 24 7 45 3853.8 21.98 170.22

DIFFERENTIAL CORRECTIONS
 TDE -.6648 TRA-1.7226 TC3 -.1257 BAU .2792 SGT 912.9 SGR 455.0 SG3 35.5 ST 382.9 SR 419.6 SS 365.6
 RDE -.9289 RRA .3734 RC3 -.0232 FAU .01349 RRT .0099 RRF -.0123 RTF -.6764 CRT .6944 CRS .7936 CST .9874
 FDE .3753 FRA .7051 FC3 -.0714 BSP 2497 SGB 1020.0 R23 -.0034 R13 -.6764 LSA 632.4 MSA 237.1 SSA 14.2
 BOE 1.1423 BRA 1.7626 BC3 .1278 FSP -78 SG1 912.9 SG2 454.9 THA .37 EL1 523.3 EL2 220.9 ALF 48.76

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 20.372 GAL 15.80 AZL 86.19 MCA 56.58 SMA 95.57 ECC .58646 INC 3.8057 V1 30.273
 RP 107.50 LAP 3.18 LOP 145.72 VP 32.871 GAP -35.28 AZP 87.90 TAL 168.13 TAP 224.72 RCA 39.52 APO 151.62 V2 35.251
 RC 61.231 GL 6.13 GP 1.16 ZAL 62.32 ZAP 23.88 ETS 182.81 ZAE 144.41 ETE 192.81 ZAC 84.11 ETC 166.01 CLP 23.85

PLANETOCENTRIC CONIC
 C3 148.546 VHL 12.188 OLA 16.13 RAL 22.81 RAD 6570.6 VEL 16.428 PTH 2.87 VMP 20.827 DPA -6.16 RAP 351.33 ECC 3.4447
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 44 16 3209.90 -25.96 111.44 285.74 78.26 5 37 45 2609.9 -27.31 103.03
 90.00 21 1 17 4800.63 18.12 206.80 272.67 67.86 22 21 18 4200.6 14.96 199.55
 100.00 6 14 36 2918.55 -27.79 90.43 286.16 78.51 7 3 15 2318.6 -29.09 81.87
 100.00 22 13 38 4567.21 19.85 188.88 271.91 67.18 23 29 45 3967.2 16.59 181.61
 110.00 7 42 48 2642.59 -32.60 70.57 287.26 79.11 8 26 51 2042.6 -33.76 61.53
 110.00 23 1 55 4415.94 24.34 175.27 269.77 65.22 24 15 31 3815.9 20.79 167.92

DIFFERENTIAL CORRECTIONS
 TDE -.6642 TRA-1.7244 TC3 -.1313 BAU .2657 SGT 955.0 SGR 458.1 SG3 38.5 ST 402.1 SR 423.1 SS 382.0
 RDE -.8934 RRA .3514 RC3 -.0257 FAU .01374 RRT .0139 RRF -.0163 RTF -.6945 CRT .6941 CRS .7950 CST .9871
 FDE .3897 FRA .7293 FC3 -.0801 BSP 2672 SGB 1059.2 R23 -.0038 R13 -.6945 LSA 654.0 MSA 242.4 SSA 14.3
 BOE 1.1132 BRA 1.7598 BC3 .1338 FSP -86 SG1 955.0 SG2 458.1 THA .50 EL1 537.4 EL2 227.9 ALF 47.10

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 163.826

RL 147.17 LAL .00 LOL 89.20 VL 20.921 GAL 15.10 AZL 86.25 MCA 59.83 SMA 97.16 ECC .56107 INC 3.7468 V1 30.273
 RP 107.51 LAP 3.24 LOP 148.98 VP 33.210 GAP -33.64 AZP 88.12 TAL 167.43 TAP 227.26 RCA 42.65 APO 151.67 V2 35.248
 RC 59.338 GL 6.52 GP 1.20 ZAL 61.39 ZAP 22.40 ETS 183.21 ZAE 145.35 ETE 193.61 ZAC 85.81 ETC 166.12 CLP 22.37

PLANETOCENTRIC CONIC

C3 135.092 VML 11.623 CLA 16.85 RAL 23.58 RAD 6570.5 VEL 16.013 PTH 2.82 VHP 19.980 DPA -5.42 RAP 352.94 ECC 3.2233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 40 27 3218.83 -25.83 112.06 285.44 77.98 5 34 6 2618.8 -27.23 103.67
 90.00 21 11 16 4756.51 16.97 204.07 272.26 66.98 22 30 33 4156.5 13.71 196.91
 100.00 6 11 23 2925.56 -27.69 90.93 285.88 78.27 7 0 9 2325.6 -29.03 82.38
 100.00 22 23 1 4525.00 18.71 186.26 271.47 66.25 23 38 26 3925.0 15.34 179.09
 110.00 7 40 49 2645.78 -32.56 70.81 287.01 78.97 8 24 54 2045.8 -33.74 61.78
 110.00 23 10 5 4377.55 23.22 172.85 269.24 64.18 24 23 3 3777.5 19.56 165.63

DIFFERENTIAL CORRECTIONS

TDE -.6642 TRA-1.7253 TC3 -.1365 BAU .2518
 RDE -.8581 RRA .3297 RC3 -.0283 FAU .01403
 FDE .4048 FRA .7541 FC3 -.0899 BSP 2848
 BDE 1.0851 BRA 1.7565 BC3 .1394 FSP -95

MID-COURSE EXECUTION ACCURACY

SGT 998.8 SGR 460.6 SG3 41.8
 RRT .0185 RRF -.0210 RTF -.7119
 SGB 1099.9 R23 -.0043 R13 -.7119
 SG1 998.8 SG2 460.5 THA .62

ORBIT DETERMINATION ACCURACY

ST 422.3 SR 426.1 SS 399.1
 CRT .6943 CRS .7966 CST .9868
 LSA 676.6 MSA 247.2 SSA 14.5
 EL1 552.2 EL2 234.5 ALF 45.37

LAUNCH DATE DEC 21 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 170.115

RL 147.17 LAL .00 LOL 89.20 VL 21.434 GAL 14.43 AZL 86.31 MCA 63.08 SMA 98.73 ECC .53648 INC 3.6916 V1 30.273
 RP 107.52 LAP 3.29 LOP 152.23 VP 33.531 GAP -32.08 AZP 88.33 TAL 166.75 TAP 229.83 RCA 45.76 APO 151.70 V2 35.243
 RC 57.501 GL 6.92 GP 1.25 ZAL 60.53 ZAP 20.94 ETS 183.66 ZAE 146.42 ETE 194.48 ZAC 87.52 ETC 166.21 CLP 20.91

PLANETOCENTRIC CONIC

C3 122.906 VML 11.086 CLA 17.55 RAL 24.30 RAD 6570.3 VEL 15.628 PTH 2.78 VHP 19.161 DPA -4.66 RAP 354.56 ECC 3.0227
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 20 3227.12 -25.71 112.64 285.02 77.71 5 30 7 2627.1 -27.15 104.27
 90.00 21 21 5 4711.63 15.75 201.34 271.80 66.16 22 39 37 4111.6 12.40 194.27
 100.00 6 7 54 2931.85 -27.60 91.37 285.48 78.05 6 56 46 2331.9 -28.97 82.84
 100.00 22 32 13 4482.14 17.52 183.64 270.97 65.38 23 46 55 3882.1 14.05 176.56
 110.00 7 38 35 2648.13 -32.53 70.99 286.64 78.87 8 22 43 2048.1 -33.72 61.96
 110.00 23 18 1 4358.62 22.05 170.44 268.65 63.19 24 30 20 3738.6 18.27 163.34

DIFFERENTIAL CORRECTIONS

TDE -.6641 TRA-1.7247 TC3 -.1410 BAU .2372
 RDE -.8232 RRA .3083 RC3 -.0312 FAU .01435
 FDE .4205 FRA .7793 FC3 -.1011 BSP 3041
 BDE 1.0577 BRA 1.7521 BC3 .1444 FSP -105

MID-COURSE EXECUTION ACCURACY

SGT 1043.8 SGR 462.3 SG3 45.4
 RRT .0236 RRF -.0263 RTF -.7286
 SGB 1141.6 R23 -.0049 R13 -.7286
 SG1 1043.9 SG2 462.1 THA .74

ORBIT DETERMINATION ACCURACY

ST 443.3 SR 428.4 SS 416.7
 CRT .6949 CRS .7985 CST .9865
 LSA 700.2 MSA 251.4 SSA 14.7
 EL1 567.6 EL2 240.6 ALF 43.59

LAUNCH DATE DEC 21 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 176.472

RL 147.17 LAL .00 LOL 89.20 VL 21.913 GAL 13.78 AZL 86.36 MCA 66.32 SMA 100.28 ECC .51275 INC 3.6395 V1 30.273
 RP 107.54 LAP 3.33 LOP 155.48 VP 33.834 GAP -30.59 AZP 88.54 TAL 166.10 TAP 232.42 RCA 48.86 APO 151.70 V2 35.238
 RC 55.726 GL 7.34 GP 1.30 ZAL 59.73 ZAP 19.50 ETS 184.18 ZAE 147.63 ETE 195.45 ZAC 89.25 ETC 166.29 CLP 19.45

PLANETOCENTRIC CONIC

C3 111.863 VML 10.577 CLA 18.24 RAL 24.95 RAD 6570.1 VEL 15.271 PTH 2.74 VHP 18.371 DPA -3.89 RAP 356.18 ECC 2.8410
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 55 3234.85 -25.60 113.18 284.48 77.46 5 25 50 2634.9 -27.07 104.82
 90.00 21 30 45 4666.00 14.48 198.59 271.29 65.40 22 48 31 4066.0 11.04 191.61
 100.00 6 4 8 2937.48 -27.52 91.77 284.96 77.85 6 53 5 2337.5 -28.92 83.25
 100.00 22 41 13 4438.61 16.26 181.02 270.43 64.57 23 55 12 3838.6 12.71 174.03
 110.00 7 36 7 2649.68 -32.51 71.10 286.14 78.80 8 20 17 2049.7 -33.71 62.08
 110.00 23 25 43 4299.17 20.82 168.04 268.02 62.25 24 37 23 3699.2 16.94 161.06

DIFFERENTIAL CORRECTIONS

TDE -.6675 TRA-1.7259 TC3 -.1458 BAU .2240
 RDE -.7887 RRA .2874 RC3 -.0341 FAU .01469
 FDE .4375 FRA .8055 FC3 -.1137 BSP 3168
 BDE 1.0332 BRA 1.7497 BC3 .1498 FSP -115

MID-COURSE EXECUTION ACCURACY

SGT 1093.2 SGR 463.3 SG3 49.3
 RRT .0304 RRF -.0325 RTF -.7442
 SGB 1187.3 R23 -.0049 R13 -.7442
 SG1 1093.3 SG2 463.0 THA .90

ORBIT DETERMINATION ACCURACY

ST 467.0 SR 430.1 SS 435.3
 CRT .6970 CRS .8008 CST .9865
 LSA 726.1 MSA 255.0 SSA 14.9
 EL1 585.2 EL2 246.1 ALF 41.63

LAUNCH DATE DEC 21 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 182.889

RL 147.17 LAL .00 LOL 89.20 VL 22.360 GAL 13.15 AZL 86.41 MCA 69.56 SMA 101.80 ECC .48990 INC 3.5900 V1 30.273
 RP 107.56 LAP 3.36 LOP 158.72 VP 34.119 GAP -29.17 AZP 88.75 TAL 165.48 TAP 235.05 RCA 51.93 APO 151.68 V2 35.232
 RC 54.021 GL 7.76 GP 1.36 ZAL 58.99 ZAP 18.06 ETS 184.77 ZAE 148.98 ETE 196.52 ZAC 90.98 ETC 166.35 CLP 18.01

PLANETOCENTRIC CONIC

C3 101.852 VML 10.092 CLA 18.92 RAL 25.55 RAD 6570.0 VEL 14.940 PTH 2.69 VHP 17.608 DPA -3.11 RAP 357.81 ECC 2.6762
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 9 3242.11 -25.49 113.68 283.83 77.23 5 21 11 2642.1 -27.00 105.34
 90.00 21 40 16 4619.60 13.14 195.84 270.73 64.69 22 57 16 4019.6 9.63 188.93
 100.00 6 0 4 2942.51 -27.45 92.13 284.31 77.68 6 49 6 2342.5 -28.87 83.61
 100.00 22 50 3 4394.44 14.95 178.39 269.83 63.81 24 3 17 3794.4 11.31 171.49
 110.00 7 33 24 2650.48 -32.50 71.16 285.53 78.77 8 17 35 2050.5 -33.71 62.14
 110.00 23 33 12 4259.23 19.53 165.65 267.34 61.37 24 44 11 3659.2 15.56 158.78

DIFFERENTIAL CORRECTIONS

TDE -.6686 TRA-1.7231 TC3 -.1488 BAU .2089
 RDE -.7546 RRA .2668 RC3 -.0372 FAU .01509
 FDE .4550 FRA .8321 FC3 -.1283 BSP 3367
 BDE 1.0082 BRA 1.7436 BC3 .1534 FSP -127

MID-COURSE EXECUTION ACCURACY

SGT 1141.8 SGR 463.5 SG3 53.5
 RRT .0371 RRF -.0392 RTF -.7594
 SGB 1232.3 R23 -.0055 R13 -.7594
 SG1 1141.9 SG2 463.1 THA 1.03

ORBIT DETERMINATION ACCURACY

ST 490.3 SR 431.1 SS 454.4
 CRT .6989 CRS .8033 CST .9863
 LSA 752.3 MSA 258.0 SSA 15.0
 EL1 602.8 EL2 250.8 ALF 39.77

LAUNCH DATE DEC 21 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 189.362

RL 147.17 LAL .00 LOL 89.20 VL 22.778 GAL 12.54 AZL 86.46 MCA 72.80 SMA 103.30 ECC .46793 INC 3.5425 V1 30.273
 RP 107.58 LAP 3.38 LOP 161.97 VP 34.388 GAP -27.81 AZP 88.95 TAL 164.90 TAP 237.70 RCA 54.96 APO 151.64 V2 35.226
 RC 52.393 GL 8.20 GP 1.42 ZAL 58.32 ZAP 16.63 ETS 185.46 ZAE 150.47 ETE 197.74 ZAC 92.71 ETC 166.40 CLP 16.58

PLANETOCENTRIC CONIC

C3 92.775 VHL 9.632 DLA 19.58 RAL 26.09 RAD 6569.8 VEL 14.633 PTH 2.65 VHP 16.870 DPA -2.32 RAP 359.44 ECC 2.5268
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 3 3248.99 -25.39 114.16 283.05 77.01 5 16 12 2649.0 -26.92 105.83
 90.00 21 49 40 4572.43 11.76 193.07 270.12 64.05 23 5 52 3972.4 8.17 186.23
 100.00 5 55 41 2947.02 -27.38 92.45 283.56 77.52 6 44 48 2347.0 -28.83 83.94
 100.00 22 58 42 4349.63 13.59 175.76 269.18 63.12 24 11 12 3749.6 9.88 168.94
 110.00 7 30 26 2650.59 -32.50 71.17 284.79 78.77 8 14 37 2050.6 -33.70 62.15
 110.00 23 40 27 4218.83 18.20 163.28 266.62 60.55 24 50 45 3618.8 14.14 156.52

DIFFERENTIAL CORRECTIONS

TDE -.6704 TRA-1.7192 TC3 -.1509 BAU .1938
 RDE -.7211 RRA .2467 RC3 -.0405 FAU .01553
 FDE .4736 FRA .8595 FC3 -.1449 BSP 3562
 BOE .9846 BRA 1.7368 BC3 .1562 FSP -140

MID-COURSE EXECUTION ACCURACY

SGT 1192.4 SGR 463.0 SG3 58.1
 RRT .0448 RRF -.0469 RTF -.7739
 SGB 1279.1 R23 -.0061 R13 -.7739
 SG1 1192.6 SG2 462.4 THA 1.17

ORBIT DETERMINATION ACCURACY

ST 514.9 SR 431.5 SS 474.4
 CRT .7015 CRS .8062 CST .9862
 LSA 780.0 MSA 260.3 SSA 15.2
 EL1 621.7 EL2 254.7 ALF 37.89

LAUNCH DATE DEC 21 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 195.884

RL 147.17 LAL .00 LOL 89.20 VL 23.169 GAL 11.95 AZL 86.50 MCA 76.05 SMA 104.76 ECC .44686 INC 3.4967 V1 30.273
 RP 107.60 LAP 3.39 LOP 165.22 VP 34.641 GAP -26.50 AZP 89.16 TAL 164.34 TAP 240.39 RCA 57.95 APO 151.58 V2 35.219
 RC 50.852 GL 8.65 GP 1.48 ZAL 57.71 ZAP 15.22 ETS 186.29 ZAE 152.11 ETE 199.12 ZAC 94.45 ETC 166.43 CLP 15.15

PLANETOCENTRIC CONIC

C3 84.542 VHL 9.195 DLA 20.23 RAL 26.56 RAD 6569.7 VEL 14.349 PTH 2.61 VHP 16.157 DPA -1.51 RAP 1.06 ECC 2.3913
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 16 34 3255.60 -25.28 114.61 282.16 76.81 5 10 50 2655.6 -26.85 106.30
 90.00 21 58 56 4524.50 10.31 190.29 269.46 63.48 23 14 20 3924.5 6.67 183.51
 100.00 5 51 0 2951.11 -27.32 92.74 282.68 77.38 6 40 11 2351.1 -28.79 84.24
 100.00 23 7 11 4304.23 12.18 173.13 268.49 62.49 24 18 56 3704.2 8.40 166.38
 110.00 7 27 13 2650.08 -32.50 71.14 283.95 78.79 8 11 23 2050.1 -33.71 62.11
 110.00 23 47 28 4178.02 16.82 160.92 265.85 59.79 24 57 6 3578.0 12.68 154.26

DIFFERENTIAL CORRECTIONS

TDE -.6725 TRA-1.7134 TC3 -.1516 BAU .1783
 RDE -.6882 RRA .2270 RC3 -.0438 FAU .01603
 FDE .4935 FRA .8877 FC3 -.1641 BSP 3771
 BOE .9623 BRA 1.7284 BC3 .1578 FSP -154

MID-COURSE EXECUTION ACCURACY

SGT 1244.2 SGR 461.7 SG3 63.1
 RRT .0533 RRF -.0555 RTF -.7876
 SGB 1327.1 R23 -.0068 R13 -.7877
 SG1 1244.5 SG2 460.9 THA 1.31

ORBIT DETERMINATION ACCURACY

ST 540.6 SR 431.2 SS 495.4
 CRT .7048 CRS .8094 CST .9861
 LSA 809.2 MSA 261.9 SSA 15.3
 EL1 641.7 EL2 257.7 ALF 36.04

LAUNCH DATE DEC 21 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 202.451

RL 147.17 LAL .00 LOL 89.20 VL 23.534 GAL 11.39 AZL 86.55 MCA 79.29 SMA 106.19 ECC .42670 INC 3.4522 V1 30.273
 RP 107.62 LAP 3.39 LOP 168.47 VP 34.878 GAP -25.25 AZP 89.36 TAL 163.83 TAP 243.11 RCA 60.88 APO 151.50 V2 35.211
 RC 49.405 GL 9.10 GP 1.56 ZAL 57.17 ZAP 13.81 ETS 187.28 ZAE 153.90 ETE 200.73 ZAC 96.19 ETC 166.43 CLP 13.72

PLANETOCENTRIC CONIC

C3 77.076 VHL 8.779 DLA 20.87 RAL 26.98 RAD 6569.5 VEL 14.086 PTH 2.57 VHP 15.467 DPA -.70 RAP 2.68 ECC 2.2685
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 42 3262.05 -25.18 115.06 281.17 76.61 5 5 4 2662.0 -26.78 106.76
 90.00 22 8 6 4475.84 8.82 187.49 268.76 62.98 23 22 42 3875.8 5.13 180.76
 100.00 5 45 59 2954.84 -27.27 93.00 281.71 77.25 6 35 13 2354.8 -28.75 84.51
 100.00 23 15 31 4258.28 10.72 170.50 267.75 61.93 24 26 29 3658.3 6.88 163.81
 110.00 7 23 44 2649.01 -32.52 71.05 282.99 78.83 8 7 53 2049.0 -33.72 62.02
 110.00 23 54 15 4136.87 15.39 158.58 265.04 59.09 25 3 12 3536.9 11.18 152.01

DIFFERENTIAL CORRECTIONS

TDE -.6754 TRA-1.7063 TC3 -.1507 BAU .1628
 RDE -.6560 RRA .2079 RC3 -.0472 FAU .01657
 FDE .5148 FRA .9170 FC3 -.1862 BSP 3978
 BOE .9415 BRA 1.7189 BC3 .1580 FSP -170

MID-COURSE EXECUTION ACCURACY

SGT 1298.0 SGR 459.6 SG3 68.6
 RRT .0630 RRF -.0651 RTF -.8007
 SGB 1376.9 R23 -.0075 R13 -.8008
 SG1 1298.3 SG2 458.6 THA 1.46

ORBIT DETERMINATION ACCURACY

ST 567.6 SR 430.4 SS 517.4
 CRT .7089 CRS .8129 CST .9861
 LSA 840.1 MSA 262.6 SSA 15.4
 EL1 663.2 EL2 259.8 ALF 34.21

LAUNCH DATE DEC 21 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 209.057

RL 147.17 LAL .00 LOL 89.20 VL 23.874 GAL 10.84 AZL 86.59 MCA 82.52 SMA 107.58 ECC .40744 INC 3.4086 V1 30.273
 RP 107.65 LAP 3.38 LOP 171.71 VP 35.100 GAP -24.04 AZP 89.56 TAL 163.35 TAP 245.87 RCA 63.75 APO 151.41 V2 35.202
 RC 48.064 GL 9.57 GP 1.64 ZAL 56.69 ZAP 12.40 ETS 188.51 ZAE 155.83 ETE 202.62 ZAC 97.92 ETC 166.42 CLP 12.29

PLANETOCENTRIC CONIC

C3 70.307 VHL 8.385 DLA 21.50 RAL 27.33 RAD 6569.4 VEL 13.844 PTH 2.53 VHP 14.801 DPA .12 RAP 4.30 ECC 2.1571
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 26 3268.46 -25.08 115.50 280.06 76.41 4 58 55 2668.5 -26.71 107.21
 90.00 22 17 10 4426.46 7.28 184.68 268.01 62.56 23 30 57 3826.5 3.55 177.99
 100.00 5 40 37 2958.33 -27.22 93.25 280.62 77.13 6 29 55 2358.3 -28.71 84.76
 100.00 23 23 41 4211.81 9.22 167.87 266.97 61.44 24 33 53 3611.8 5.33 161.23
 110.00 7 19 59 2647.45 -32.54 70.94 281.93 78.90 8 4 7 2047.4 -33.73 61.90
 110.00 0 4 44 4095.47 13.93 156.27 264.19 58.46 1 12 59 3495.5 9.66 149.77

DIFFERENTIAL CORRECTIONS

TDE -.6810 TRA-1.7001 TC3 -.1496 BAU .1484
 RDE -.6246 RRA .1892 RC3 -.0506 FAU .01716
 FDE .5380 FRA .9479 FC3 -.2113 BSP 4130
 BOE .9241 BRA 1.7106 BC3 .1579 FSP -186

MID-COURSE EXECUTION ACCURACY

SGT 1355.9 SGR 456.8 SG3 74.6
 RRT .0749 RRF -.0763 RTF -.8127
 SGB 1430.7 R23 -.0077 R13 -.8128
 SG1 1356.3 SG2 455.4 THA 1.63

ORBIT DETERMINATION ACCURACY

ST 597.4 SR 428.8 SS 540.8
 CRT .7144 CRS .8169 CST .9864
 LSA 874.2 MSA 262.5 SSA 15.6
 EL1 687.6 EL2 260.7 ALF 32.35

LAUNCH DATE DEC 21 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 215.698

RL 147.17 LAL .00 LOL 89.20 VL 24.191 GAL 10.32 AZL 86.63 MCA 85.76 SMA 108.93 ECC .38908 INC 3.3657 V1 30.273
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.308 GAP -22.89 AZP 89.75 TAL 162.91 TAP 248.67 RCA 66.54 APO 151.31 V2 35.194
 RC 46.839 GL 10.05 GP 1.73 ZAL 56.28 ZAP 11.00 ETS 190.06 ZAE 157.89 ETE 204.90 ZAC 99.65 ETC 166.38 CLP 10.87

PLANETOCENTRIC CONIC

C3 64.169 VHL 8.011 CLA 22.11 RAL 27.62 RAD 6569.2 VEL 13.621 PTH 2.49 VHP 14.157 DPA .95 RAP 5.91 ECC 2.0561
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 45 3274.95 -24.98 115.95 278.86 76.21 4 52 20 2674.9 -26.63 107.67
 90.00 22 26 10 4376.40 5.70 181.85 267.23 62.22 23 39 7 3776.4 -1.94 175.19
 100.00 5 34 55 2961.65 -27.16 93.48 279.44 77.02 6 24 17 2361.7 -28.68 85.01
 100.00 23 31 42 4164.92 7.68 165.23 266.15 61.02 24 41 7 3564.9 3.76 158.64
 110.00 7 15 59 2645.45 -32.57 70.79 280.76 78.98 8 0 5 2045.4 -33.74 61.75
 110.00 0 11 3 4053.89 12.44 153.97 263.30 57.80 1 18 36 3453.9 8.11 147.55

DIFFERENTIAL CORRECTIONS

TDE -.6848 TRA-1.6895 TC3 -.1449 BAU .1326
 ROE -.5940 RRA .1711 RC3 -.0539 FAU .01784
 FDE .5627 FRA .9797 FC3 -.2407 BSP 4344
 BOE .9066 BRA 1.6962 BC3 .1546 FSP -205

MID-COURSE EXECUTION ACCURACY

SGT 1412.5 SGR 453.2 SG3 81.2
 RRT .0872 RRF -.0887 RTF -.8245
 SGB 1483.4 R23 -.0086 R13 -.8246
 SG1 1413.1 SG2 451.3 THA 1.78

ORBIT DETERMINATION ACCURACY

ST 627.0 SR 426.7 SS 565.3
 CRT .7200 CRS .8213 CST .9865
 LSA 908.9 MSA 261.7 SSA 15.7
 EL1 712.2 EL2 260.7 ALF 30.64

LAUNCH DATE DEC 21 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 222.368

RL 147.17 LAL .00 LOL 89.20 VL 24.487 GAL 9.82 AZL 86.68 MCA 88.99 SMA 110.23 ECC .37160 INC 3.3232 V1 30.273
 RP 107.71 LAP 3.32 LOP 178.19 VP 35.502 GAP -21.78 AZP 89.94 TAL 162.51 TAP 251.50 RCA 69.27 APO 151.19 V2 35.184
 RC 45.742 GL 10.53 GP 1.83 ZAL 55.93 ZAP 9.61 ETS 192.10 ZAC 160.08 ETE 207.71 ZAC 101.37 ETC 166.32 CLP 9.44

PLANETOCENTRIC CONIC

C3 58.604 VHL 7.655 CLA 22.71 RAL 27.84 RAD 6569.1 VEL 13.415 PTH 2.45 VHP 13.535 DPA 1.79 RAP 7.51 ECC 1.9645
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 36 3281.66 -24.87 116.41 277.56 76.00 4 45 19 2681.7 -26.55 108.15
 90.00 22 35 6 4325.68 4.09 179.00 266.41 61.96 23 47 12 3725.7 .30 172.36
 100.00 5 28 52 2964.90 -27.12 93.71 278.17 76.91 6 18 17 2364.9 -28.65 85.24
 100.00 23 39 33 4117.68 6.11 162.60 265.29 60.68 24 48 11 3517.7 2.16 156.04
 110.00 7 11 44 2645.08 -32.60 70.61 279.51 79.09 7 55 47 2045.1 -33.76 61.57
 110.00 0 17 7 4012.26 10.92 151.70 262.38 57.41 1 23 59 3412.3 6.55 145.34

DIFFERENTIAL CORRECTIONS

TDE -.6894 TRA-1.6776 TC3 -.1380 BAU .1170
 ROE -.5643 RRA .1536 RC3 -.0571 FAU .01858
 FDE .5894 FRA 1.0132 FC3 -.2745 BSP 4560
 BOE .8909 BRA 1.6847 BC3 .1494 FSP -226

MID-COURSE EXECUTION ACCURACY

SGT 1470.9 SGR 449.0 SG3 88.4
 RRT .1012 RRF -.1026 RTF -.8356
 SGB 1537.9 R23 -.0095 R13 -.8358
 SG1 1471.7 SG2 446.4 THA 1.95

ORBIT DETERMINATION ACCURACY

ST 658.0 SR 424.0 SS 591.2
 CRT .7264 CRS .8260 CST .9867
 LSA 945.7 MSA 260.1 SSA 15.8
 EL1 738.5 EL2 259.7 ALF 29.00

LAUNCH DATE DEC 21 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 229.064

RL 147.17 LAL .00 LOL 89.20 VL 24.763 GAL 9.33 AZL 86.72 MCA 92.23 SMA 111.49 ECC .35499 INC 3.2808 V1 30.273
 RP 107.74 LAP 3.28 LOP 181.43 VP 35.683 GAP -20.71 AZP 90.13 TAL 162.15 TAP 254.38 RCA 71.91 APO 151.06 V2 35.174
 RC 44.782 GL 11.02 GP 1.94 ZAL 55.65 ZAP 8.23 ETS 194.87 ZAE 162.35 ETE 211.26 ZAC 103.07 ETC 166.24 CLP 8.00

PLANETOCENTRIC CONIC

C3 53.562 VHL 7.319 CLA 23.29 RAL 28.01 RAD 6568.9 VEL 13.226 PTH 2.42 VHP 12.933 DPA 2.63 RAP 9.10 ECC 1.8815
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 3 3288.72 -24.75 116.89 276.18 75.78 4 37 52 2688.7 -26.46 108.64
 90.00 22 44 0 4274.37 2.44 176.13 265.55 61.78 23 55 14 3674.4 -1.35 169.50
 100.00 5 22 28 2968.14 -27.06 93.94 276.80 76.80 6 11 56 2368.1 -28.61 85.48
 100.00 23 47 15 4070.18 4.52 159.97 264.40 60.42 24 55 6 3470.2 .55 153.44
 110.00 7 7 14 2640.40 -32.63 70.41 278.17 79.20 7 51 14 2040.4 -33.78 61.36
 110.00 0 22 55 3970.69 9.39 149.46 261.42 56.98 1 29 6 3370.7 4.97 143.15

DIFFERENTIAL CORRECTIONS

TDE -.6944 TRA-1.6639 TC3 -.1283 BAU .1015
 ROE -.5356 RRA .1365 RC3 -.0601 FAU .01942
 FDE .6184 FRA 1.0482 FC3 -.3138 BSP 4778
 BOE .8770 BRA 1.6695 BC3 .1417 FSP -249

MID-COURSE EXECUTION ACCURACY

SGT 1530.3 SGR 444.0 SG3 96.3
 RRT .1169 RRF -.1183 RTF -.8461
 SGB 1593.5 R23 -.0105 R13 -.8462
 SG1 1531.3 SG2 440.7 THA 2.12

ORBIT DETERMINATION ACCURACY

ST 690.3 SR 420.8 SS 618.5
 CRT .7337 CRS .8312 CST .9869
 LSA 984.7 MSA 257.7 SSA 15.9
 EL1 766.3 EL2 257.6 ALF 27.45

LAUNCH DATE DEC 21 1968

FLIGHT TIME 100.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 235.780

RL 147.17 LAL .00 LOL 89.20 VL 25.020 GAL 8.87 AZL 86.76 MCA 95.46 SMA 112.70 ECC .33924 INC 3.2382 V1 30.273
 RP 107.77 LAP 3.22 LOP 184.67 VP 35.851 GAP -19.68 AZP 90.31 TAL 161.83 TAP 257.29 RCA 74.47 APO 150.93 V2 35.164
 RC 43.971 GL 11.51 GP 2.06 ZAL 55.43 ZAP 6.87 ETS 198.82 ZAE 164.68 ETE 215.93 ZAC 104.76 ETC 166.13 CLP 6.55

PLANETOCENTRIC CONIC

C3 48.994 VHL 7.000 CLA 23.85 RAL 28.11 RAD 6568.8 VEL 13.052 PTH 2.38 VHP 12.352 DPA 3.48 RAP 10.67 ECC 1.8063
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 35 0 3296.25 -24.62 117.41 274.71 75.56 4 29 56 2696.3 -26.37 109.18
 90.00 22 52 51 4222.51 .77 173.24 264.66 61.69 24 3 14 3622.5 -3.02 166.61
 100.00 5 15 44 2971.45 -27.01 94.17 275.36 76.69 6 5 16 2371.5 -28.58 85.72
 100.00 23 54 48 4022.54 2.92 157.35 263.46 60.24 25 1 51 3422.5 -1.06 150.82
 110.00 7 2 30 2637.43 -32.67 70.18 276.75 79.33 7 46 28 2037.4 -33.79 61.13
 110.00 0 28 27 3929.33 7.84 147.25 260.42 56.62 1 33 57 3329.3 3.40 140.98

DIFFERENTIAL CORRECTIONS

TDE -.6997 TRA-1.6484 TC3 -.1154 BAU .0861
 ROE -.5080 RRA .1200 RC3 -.0628 FAU .02034
 FDE .6500 FRA 1.0853 FC3 -.3595 BSP 5003
 BOE .8646 BRA 1.6527 BC3 .1314 FSP -275

MID-COURSE EXECUTION ACCURACY

SGT 1590.8 SGR 438.4 SG3 105.1
 RRT .1346 RRF -.1362 RTF -.8560
 SGB 1650.1 R23 -.0118 R13 -.8561
 SG1 1591.9 SG2 434.1 THA 2.30

ORBIT DETERMINATION ACCURACY

ST 723.8 SR 417.1 SS 647.6
 CRT .7417 CRS .8369 CST .9872
 LSA 1025.8 MSA 254.5 SSA 16.0
 EL1 795.7 EL2 254.5 ALF 26.00

LAUNCH DATE DEC 21 1968

FLIGHT TIME 102.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 25.259 GAL 8.43 AZL 86.80 HCA 98.69 SMA 113.86 ECC .32433 INC 3.1932 V1 30.273
 RP 107.80 LAP 3.16 LOP 187.90 VP 36.008 GAP -18.69 AZP 90.48 TAL 161.56 TAP 260.25 RCA 76.93 APO 150.79 V2 35.153
 RC 43.319 GL 12.00 GP 2.20 ZAL 55.27 ZAP 5.54 ETS 204.82 ZAE 167.00 ETE 222.30 ZAC 106.43 ETC 165.99 CLP 5.09

DISTANCE 242.513

PLANETOCENTRIC CONIC
 C3 44.857 VHL 6.698 DLA 24.39 RAL 28.15 RAD 6568.7 VEL 12.893 PTH 2.35 VHP 11.790 DPA 4.34 RAP 12.23 ECC 1.7382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 26 29 3304.40 -24.48 117.97 273.16 75.31 4 21 33 2704.4 -26.26 109.75
 90.00 23 1 42 4170.15 -.93 170.32 263.74 61.70 24 11 12 3570.1 -4.70 163.67
 100.00 5 8 41 2974.88 -26.96 94.41 273.85 76.57 5 58 16 2374.9 -28.54 85.96
 100.00 0 6 7 3974.90 1.31 154.73 262.50 60.13 1 12 22 3374.9 -2.68 148.21
 110.00 6 57 34 2634.21 -32.71 69.94 275.25 79.47 7 41 28 2034.2 -33.82 60.88
 110.00 0 33 43 3888.33 6.30 145.07 259.40 56.33 1 38 31 3288.3 1.84 138.83

DIFFERENTIAL CORRECTIONS
 TOE -.7056 TRA-1.6312 TC3 -.0990 BAU .0710 SGT 1652.1 SGR 432.2 SG3 114.8 ST 758.7 SR 412.9 SS 678.4
 ROE -.4814 RRA .1040 RC3 -.0650 FAU .02137 RRT .1547 RRF -.1564 RTF -.8653 CRT .7506 CRS .8430 CST .9876
 FOE .6844 FRA 1.1246 FC3 -.4123 BSP 5224 SGB 1707.7 R23 -.0132 R13 -.8655 LSA 1069.3 MSA 250.5 SSA 16.1
 BOE .8542 BRA 1.6345 BC3 .1185 FSP -303 SGI 1653.6 SG2 426.6 THA 2.48 EL1 826.7 EL2 250.4 ALF 24.63

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 104.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 25.482 GAL 8.00 AZL 86.85 HCA 101.92 SMA 114.98 ECC .31024 INC 3.1514 V1 30.273
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.153 GAP -17.73 AZP 90.65 TAL 161.34 TAP 263.25 RCA 79.31 APO 150.64 V2 35.141
 RC 42.834 GL 12.50 GP 2.35 ZAL 55.18 ZAP 4.31 ETS 214.63 ZAE 169.20 ETE 231.35 ZAC 108.07 ETC 165.82 CLP 3.61

DISTANCE 249.258

PLANETOCENTRIC CONIC
 C3 41.113 VHL 6.412 DLA 24.91 RAL 28.13 RAD 6568.6 VEL 12.747 PTH 2.32 VHP 11.248 DPA 5.20 RAP 13.76 ECC 1.6766
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 29 3313.26 -24.33 118.57 271.54 75.05 4 12 42 2713.3 -26.15 110.37
 90.00 23 10 32 4117.36 -2.63 167.37 262.79 61.80 24 19 10 3517.4 -6.38 160.70
 100.00 5 1 20 2978.44 -26.90 94.66 272.27 76.45 5 50 58 2378.4 -28.50 86.22
 100.00 0 13 18 3927.41 -.31 152.13 261.50 60.11 1 18 46 3327.4 -4.28 145.59
 110.00 6 52 28 2630.74 -32.75 69.68 273.70 79.62 7 36 18 2030.7 -33.84 60.61
 110.00 0 38 40 3847.88 4.77 142.94 258.34 56.11 1 42 47 3247.9 .29 136.72

DIFFERENTIAL CORRECTIONS
 TOE -.7121 TRA-1.6123 TC3 -.0787 BAU .0567 SGT 1714.3 SGR 425.4 SG3 125.4 ST 795.0 SR 408.4 SS 711.3
 ROE -.4561 RRA .0885 RC3 -.0667 FAU .02252 RRT .1775 RRF -.1794 RTF -.8741 CRT .7604 CRS .8495 CST .9880
 FOE .7221 FRA 1.1666 FC3 -.4742 BSP 5446 SGB 1766.3 R23 -.0147 R13 -.8743 LSA 1115.3 MSA 245.9 SSA 16.1
 BOE .8456 BRA 1.6148 BC3 .1032 FSP -335 SGI 1716.0 SG2 418.2 THA 2.68 EL1 859.4 EL2 245.4 ALF 23.35

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 25.689 GAL 7.60 AZL 86.89 HCA 105.14 SMA 116.04 ECC .29695 INC 3.1067 V1 30.273
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.288 GAP -16.81 AZP 90.81 TAL 161.16 TAP 266.30 RCA 81.58 APO 150.50 V2 35.129
 RC 42.524 GL 12.98 GP 2.52 ZAL 55.14 ZAP 3.29 ETS 231.73 ZAE 171.09 ETE 244.55 ZAC 109.68 ETC 165.62 CLP 2.11

DISTANCE 256.013

PLANETOCENTRIC CONIC
 C3 37.724 VHL 6.142 DLA 25.41 RAL 28.05 RAD 6568.5 VEL 12.613 PTH 2.29 VHP 10.724 DPA 6.06 RAP 15.27 ECC 1.6208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 7 59 3322.95 -24.16 119.23 269.86 74.76 4 3 22 2722.9 -26.02 111.05
 90.00 23 19 23 4064.21 -4.33 164.39 261.81 61.99 24 27 8 3464.2 -8.05 157.68
 100.00 4 53 43 2982.11 -26.84 94.92 270.63 76.33 5 43 25 2382.1 -28.46 86.49
 100.00 0 20 17 3880.28 -1.90 149.54 260.47 60.16 1 24 58 3280.3 -5.86 142.99
 110.00 6 47 13 2626.99 -32.80 69.40 272.08 79.78 7 31 0 2027.0 -33.86 60.32
 110.00 0 43 16 3808.17 3.26 140.86 257.25 55.95 1 46 45 3208.2 -1.23 134.65

DIFFERENTIAL CORRECTIONS
 TOE -.7182 TRA-1.5920 TC3 -.0541 BAU .0436 SGT 1776.7 SGR 418.3 SG3 137.2 ST 832.0 SR 403.6 SS 746.2
 ROE -.4320 RRA .0733 RC3 -.0675 FAU .02379 RRT .2031 RRF -.2056 RTF -.8823 CRT .7706 CRS .8565 CST .9885
 FOE .7634 FRA 1.2116 FC3 -.5460 BSP 5672 SGB 1825.2 R23 -.0167 R13 -.8826 LSA 1163.5 MSA 240.7 SSA 16.2
 BOE .8381 BRA 1.5937 BC3 .0865 FSP -370 SGI 1778.8 SG2 409.1 THA 2.89 EL1 893.1 EL2 239.6 ALF 22.18

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 25.881 GAL 7.21 AZL 86.94 HCA 108.36 SMA 117.05 ECC .28443 INC 3.0605 V1 30.273
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.413 GAP -15.92 AZP 90.97 TAL 161.02 TAP 269.39 RCA 83.76 APO 150.34 V2 35.117
 RC 42.392 GL 13.47 GP 2.71 ZAL 55.17 ZAP 2.77 ETS 259.59 ZAE 172.36 ETE 263.21 ZAC 111.25 ETC 165.38 CLP .59

DISTANCE 262.773

PLANETOCENTRIC CONIC
 C3 34.659 VHL 5.887 DLA 25.88 RAL 27.91 RAD 6568.4 VEL 12.491 PTH 2.26 VHP 10.219 DPA 6.93 RAP 16.75 ECC 1.5704
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 2 3333.54 -23.97 119.94 268.13 74.45 3 53 36 2733.5 -25.87 111.79
 90.00 23 28 16 4010.80 -6.03 161.39 260.81 62.28 24 35 7 3410.8 -9.70 154.63
 100.00 4 45 53 2985.83 -26.78 95.18 268.95 76.20 5 35 39 2385.8 -28.42 86.75
 100.00 0 27 2 3833.74 -3.48 146.98 259.40 60.29 1 30 55 3233.7 -7.41 140.40
 110.00 6 41 53 2622.91 -32.85 69.09 270.42 79.95 7 25 36 2022.9 -33.88 60.00
 110.00 0 47 31 3769.43 1.78 138.84 256.13 55.86 1 50 21 3169.4 -2.71 132.63

DIFFERENTIAL CORRECTIONS
 TOE -.7258 TRA-1.5702 TC3 -.0260 BAU .0334 SGT 1839.8 SGR 410.9 SG3 150.3 ST 871.0 SR 398.7 SS 783.3
 ROE -.4091 RRA .0585 RC3 -.0673 FAU .02522 RRT .2330 RRF -.2355 RTF -.8898 CRT .7822 CRS .8640 CST .9891
 FOE .8087 FRA 1.2600 FC3 -.6299 BSP 5867 SGB 1885.1 R23 -.0184 R13 -.8901 LSA 1214.8 MSA 234.6 SSA 16.2
 BOE .8332 BRA 1.5713 BC3 .0721 FSP -409 SGI 1842.4 SG2 399.0 THA 3.13 EL1 929.1 EL2 232.8 ALF 21.09

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 269.536

RL 147.17 LAL .00 LOL 89.20 VL 26.059 GAL 6.84 AZL 86.99 HCA 111.58 SMA 118.01 ECC .27266 INC 3.0127 V1 30.273
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.528 GAP -15.07 AZP 91.11 TAL 160.93 TAP 272.51 RCA 85.84 APO 150.19 V2 35.105
 RC 42.442 GL 13.93 GP 2.93 ZAL 55.25 ZAP 3.08 ETS 290.17 ZAE 172.67 ETE 285.83 ZAC 112.79 ETC 165.11 CLP -.97

PLANETOCENTRIC CONIC

C3 31.887 VHL 5.647 DLA 26.32 RAL 27.73 RAD 6568.3 VEL 12.380 PTH 2.23 VHP 9.731 DPA 7.81 RAP 18.19 ECC 1.5248
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 47 38 3345.05 -23.75 120.72 266.35 74.12 3 43 23 2745.0 -25.71 112.59
 90.00 23 37 9 3957.26 -7.72 158.36 259.78 62.67 24 43 6 3357.3 -11.32 151.53
 100.00 4 37 56 2989.44 -26.72 95.43 267.22 76.08 5 27 46 2389.4 -28.37 87.01
 100.00 0 33 28 3788.10 -5.01 144.46 258.31 60.49 1 36 36 3188.1 -8.91 137.84
 110.00 6 36 32 2618.39 -32.90 68.75 268.72 80.15 7 20 10 2018.4 -33.91 59.65
 110.00 0 51 22 3731.92 .35 136.88 254.97 55.82 1 53 34 3131.9 -4.14 130.67

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7511 TRA-1.5463 TC3 .0102 BAU .0284 SGT 1901.1 SGR 403.4 SG3 164.9 ST 908.9 SR 393.6 SS 822.9
 RDE -.3877 RRA .0441 RC3 -.0658 FAU .02681 RRT .2656 RRF -.2696 RTF -.8975 CRT .7936 CRS .8719 CST .9895
 FDE .8585 FRA 1.3123 FC3 -.7278 BSP 6129 SGB 1943.5 R23 -.0217 R13 -.8978 LSA 1267.2 MSA 228.5 SSA 16.2
 BOE .8275 BRA 1.5469 BC3 .0665 FSP -453 SGI 1904.3 SG2 388.3 THA 3.37 EL1 964.4 EL2 225.7 ALF 20.12

LAUNCH DATE DEC 21 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 276.298

RL 147.17 LAL .00 LOL 89.20 VL 26.224 GAL 6.49 AZL 87.04 HCA 114.80 SMA 118.93 ECC .26162 INC 2.9627 V1 30.273
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.633 GAP -14.24 AZP 91.24 TAL 160.88 TAP 275.68 RCA 87.81 APO 150.04 V2 35.092
 RC 42.671 GL 14.39 GP 3.17 ZAL 55.38 ZAP 4.08 ETS 310.84 ZAE 171.95 ETE 306.93 ZAC 114.27 ETC 164.79 CLP -2.56

PLANETOCENTRIC CONIC

C3 29.380 VHL 5.420 DLA 26.72 RAL 27.49 RAD 6568.2 VEL 12.278 PTH 2.21 VHP 9.261 DPA 8.70 RAP 19.59 ECC 1.4835
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 36 51 3357.44 -23.52 121.55 264.53 73.76 3 32 48 2757.4 -25.52 113.46
 90.00 23 46 2 3903.77 -9.38 155.30 258.73 63.16 24 51 6 3303.8 -12.90 148.40
 100.00 4 29 59 2992.70 -26.67 95.66 265.47 75.98 5 19 52 2392.7 -28.34 87.25
 100.00 0 39 30 3743.74 -6.49 142.00 257.18 60.76 1 41 54 3143.7 -10.34 135.33
 110.00 6 31 14 2613.30 -32.96 68.36 266.98 80.37 7 14 47 2013.3 -33.94 59.26
 110.00 0 54 45 3695.91 -1.03 135.00 253.79 55.83 1 56 20 3095.9 -5.50 128.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7381 TRA-1.5211 TC3 .0492 BAU .0313 SGT 1962.6 SGR 396.1 SG3 181.0 ST 948.9 SR 388.8 SS 865.1
 RDE -.3677 RRA .0298 RC3 -.0627 FAU .02858 RRT .3038 RRF -.3086 RTF -.9042 CRT .8063 CRS .8802 CST .9901
 FDE .9132 FRA 1.3691 FC3 -.8421 BSP 6338 SGB 2002.2 R23 -.0245 R13 -.9046 LSA 1323.1 MSA 221.5 SSA 16.2
 BOE .8246 BRA 1.5214 BC3 .0797 FSP -501 SGI 1966.5 SG2 376.6 THA 3.64 EL1 1002.1 EL2 217.7 ALF 19.23

LAUNCH DATE DEC 21 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 283.056

RL 147.17 LAL .00 LOL 89.20 VL 26.376 GAL 6.16 AZL 87.09 HCA 118.02 SMA 119.79 ECC .25129 INC 2.9101 V1 30.273
 RP 108.03 LAP 2.57 LOP 207.25 VP 36.731 GAP -13.44 AZP 91.37 TAL 160.88 TAP 278.89 RCA 89.69 APO 149.89 V2 35.080
 RC 43.078 GL 14.81 GP 3.45 ZAL 55.56 ZAP 5.43 ETS 322.58 ZAE 170.49 ETE 322.80 ZAC 115.70 ETC 164.43 CLP -4.19

PLANETOCENTRIC CONIC

C3 27.115 VHL 5.207 DLA 27.08 RAL 27.20 RAD 6568.1 VEL 12.186 PTH 2.19 VHP 8.808 DPA 9.59 RAP 20.94 ECC 1.4462
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 25 45 3370.54 -23.27 122.43 262.68 73.39 3 21 56 2770.5 -25.32 114.36
 90.00 23 54 51 3850.64 -10.99 152.24 257.65 63.74 24 59 2 3250.6 -14.43 145.25
 100.00 4 22 10 2995.25 -26.63 95.83 263.70 75.89 5 12 5 2395.2 -28.31 87.43
 100.00 0 45 3 3701.16 -7.90 139.63 256.01 61.08 1 46 44 3101.2 -11.70 132.90
 110.00 6 26 6 2607.43 -33.02 67.92 265.23 80.63 7 9 33 2007.4 -33.97 58.80
 110.00 0 57 36 3661.74 -2.33 133.22 252.59 55.89 1 58 38 3061.7 -6.80 126.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7418 TRA-1.4924 TC3 .0975 BAU .0410 SGT 2019.3 SGR 389.2 SG3 199.0 ST 986.0 SR 384.1 SS 909.0
 RDE -.3491 RRA .0156 RC3 -.0575 FAU .03060 RRT .3458 RRF -.3524 RTF -.9109 CRT .8192 CRS .8888 CST .9906
 FDE .9724 FRA 1.4303 FC3 -.9771 BSP 6610 SGB 2056.5 R23 -.0286 R13 -.9113 LSA 1378.3 MSA 214.5 SSA 16.2
 BOE .8198 BRA 1.4925 BC3 .1131 FSP -558 SGI 2023.9 SG2 364.3 THA 3.94 EL1 1037.3 EL2 209.4 ALF 18.48

LAUNCH DATE DEC 21 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 289.808

RL 147.17 LAL .00 LOL 89.20 VL 26.518 GAL 5.85 AZL 87.15 HCA 121.23 SMA 120.60 ECC .24163 INC 2.8543 V1 30.273
 RP 108.07 LAP 2.44 LOP 210.46 VP 36.820 GAP -12.67 AZP 91.48 TAL 160.91 TAP 282.14 RCA 91.46 APO 149.74 V2 35.067
 RC 43.658 GL 15.21 GP 3.77 ZAL 55.78 ZAP 6.97 ETS 329.45 ZAE 168.67 ETE 333.87 ZAC 117.06 ETC 164.02 CLP -5.86

PLANETOCENTRIC CONIC

C3 25.067 VHL 5.007 DLA 27.39 RAL 26.88 RAD 6568.0 VEL 12.101 PTH 2.17 VHP 8.371 DPA 10.51 RAP 22.24 ECC 1.4125
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 14 32 3383.92 -23.00 123.32 260.82 73.02 3 10 56 2783.9 -25.11 115.29
 90.00 0 7 25 3798.39 -12.55 149.19 256.54 64.41 1 10 43 3198.4 -15.89 142.11
 100.00 4 14 42 2996.53 -26.61 95.92 261.92 75.85 5 4 39 2396.5 -28.29 87.52
 100.00 0 49 56 3661.01 -9.22 137.37 254.81 61.44 1 50 57 3061.0 -12.96 130.58
 110.00 6 21 15 2600.54 -33.10 67.39 263.46 80.93 7 4 35 2000.5 -34.00 58.27
 110.00 0 59 53 3629.77 -3.55 131.55 251.35 55.98 2 0 22 3029.8 -8.00 125.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7471 TRA-1.4648 TC3 .1485 BAU .0525 SGT 2077.9 SGR 383.4 SG3 219.1 ST 1025.6 SR 380.1 SS 956.3
 RDE -.3321 RRA .0013 RC3 -.0499 FAU .03283 RRT .3945 RRF -.4027 RTF -.9168 CRT .8329 CRS .8978 CST .9912
 FDE 1.0382 FRA 1.4983 FC3 -1.1338 BSP 6821 SGB 2112.9 R23 -.0331 R13 -.9173 LSA 1438.0 MSA 207.0 SSA 16.1
 BOE .8176 BRA 1.4648 BC3 .1566 FSP -619 SGI 2083.5 SG2 351.3 THA 4.29 EL1 1075.2 EL2 200.7 ALF 17.79

LAUNCH DATE DEC 21 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 296.553
 RL 147.17 LAL .00 LOL 89.20 VL 26.648 GAL 5.55 AZL 87.21 MCA 124.44 SMA 121.37 ECC .23263 INC 2.7946 V1 30.273
 RP 108.11 LAP 2.30 LOP 213.67 VP 36.901 GAP -11.92 AZP 91.58 TAL 160.98 TAP 285.42 RCA 93.13 APO 149.60 V2 35.053
 RC 44.405 GL 15.57 GP 4.14 ZAL 56.05 ZAP 8.64 ETS 333.72 ZAE 166.72 ETE 341.73 ZAC 118.35 ETC 163.56 CLP -7.59

PLANETOCENTRIC CONIC

C3 23.217 VHL 4.818 DLA 27.65 RAL 26.52 RAD 6567.9 VEL 12.025 PTH 2.15 VHP 7.951 DPA 11.44 RAP 23.47 ECC 1.3821
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 3 31 3396.67 -22.75 124.17 258.95 72.67 3 0 8 2796.7 -24.91 116.16
 90.00 0 15 35 3748.04 -14.01 146.21 255.41 65.14 1 18 3 3148.0 -17.25 139.03
 100.00 4 7 53 2995.80 -26.62 95.87 260.15 75.87 4 57 48 2395.8 -28.30 87.47
 100.00 0 53 55 3624.14 -10.41 135.28 253.57 61.82 1 54 19 3024.1 -14.10 128.43
 110.00 6 16 49 2592.30 -33.19 66.76 261.68 81.29 7 0 1 1992.3 -34.03 57.63
 110.00 1 1 28 3600.40 -4.67 130.01 250.09 56.10 2 1 29 3000.4 -9.09 123.71

DIFFERENTIAL CORRECTIONS

TDE -.7518 TRA-1.4366 TC3 .2043 BAU .0646
 RDE -.3169 RRA -.0132 RC3 -.0394 FAU .03531
 FDE 1.1108 FRA 1.5739 FC3-1.3166 BSP 7013
 BOE .8159 BRA 1.4366 BC3 .2081 FSP -687

MID-COURSE EXECUTION ACCURACY

SGT 2134.7 SGR 379.2 SG3 241.6
 RRT .4493 RRF -.4594 RTF -.9223
 SGB 2168.1 R23 -.0385 R13 -.9229
 SG1 2141.7 SG2 337.7 TMA 4.68

ORBIT DETERMINATION ACCURACY

ST 1064.9 SR 376.9 SS 1006.7
 CRT .8471 CRS .9072 CST .9917
 LSA 1499.9 MSA 199.2 SSA 16.0
 EL1 1113.3 EL2 191.6 ALF 17.22

LAUNCH DATE DEC 21 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 303.287
 RL 147.17 LAL .00 LOL 89.20 VL 26.768 GAL 5.27 AZL 87.27 MCA 127.65 SMA 122.08 ECC .22426 INC 2.7302 V1 30.273
 RP 108.15 LAP 2.16 LOP 216.88 VP 36.975 GAP -11.21 AZP 91.67 TAL 161.09 TAP 288.74 RCA 94.70 APO 149.46 V2 35.040
 RC 45.309 GL 15.88 GP 4.57 ZAL 56.34 ZAP 10.42 ETS 336.51 ZAE 164.79 ETE 347.60 ZAC 119.55 ETC 163.04 CLP -9.38

PLANETOCENTRIC CONIC

C3 21.543 VHL 4.641 DLA 27.85 RAL 26.14 RAD 6567.9 VEL 11.955 PTH 2.13 VHP 7.547 DPA 12.39 RAP 24.62 ECC 1.3545
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 53 22 3406.82 -22.54 124.84 257.12 72.39 2 50 9 2806.8 -24.74 116.86
 90.00 0 22 42 3701.59 -15.32 143.43 254.22 65.89 1 24 24 3101.6 -18.45 136.15
 100.00 4 2 2 2992.06 -26.68 95.61 258.41 76.00 4 51 54 2392.1 -28.34 87.20
 100.00 0 56 44 3591.59 -11.45 133.43 252.28 62.20 1 56 36 2991.6 -15.08 126.52
 110.00 6 12 58 2582.30 -33.29 66.00 259.91 81.73 6 56 0 1982.3 -34.07 56.85
 110.00 1 2 18 3574.12 -5.67 128.62 248.80 56.23 2 1 52 2974.1 -10.06 122.29

DIFFERENTIAL CORRECTIONS

TDE -.7549 TRA-1.4068 TC3 .2661 BAU .0770
 RDE -.3035 RRA -.0283 RC3 -.0253 FAU .03810
 FDE 1.1900 FRA 1.6573 FC3-1.5311 BSP 7198
 BOE .8137 BRA 1.4070 BC3 .2673 FSP -763

MID-COURSE EXECUTION ACCURACY

SGT 2187.8 SGR 377.5 SG3 266.7
 RRT .5097 RRF -.5221 RTF -.9274
 SGB 2220.2 R23 -.0451 R13 -.9281
 SG1 2196.5 SG2 323.5 TMA 5.14

ORBIT DETERMINATION ACCURACY

ST 1102.6 SR 374.9 SS 1059.7
 CRT .8617 CRS .9168 CST .9923
 LSA 1562.8 MSA 191.3 SSA 15.9
 EL1 1150.2 EL2 182.3 ALF 16.76

LAUNCH DATE DEC 21 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 310.009
 RL 147.17 LAL .00 LOL 89.20 VL 26.879 GAL 5.01 AZL 87.34 MCA 130.86 SMA 122.75 ECC .21650 INC 2.6600 V1 30.273
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.043 GAP -10.51 AZP 91.74 TAL 161.23 TAP 292.09 RCA 96.18 APO 149.33 V2 35.027
 RC 46.364 GL 16.12 GP 5.06 ZAL 56.66 ZAP 12.31 ETS 338.36 ZAE 162.97 ETE 352.27 ZAC 120.65 ETC 162.46 CLP -11.24

PLANETOCENTRIC CONIC

C3 20.029 VHL 4.475 DLA 27.97 RAL 25.75 RAD 6567.8 VEL 11.892 PTH 2.11 VHP 7.159 DPA 13.38 RAP 25.69 ECC 1.3296
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 45 19 3410.53 -22.46 125.09 255.37 72.29 2 42 10 2810.5 -24.68 117.11
 90.00 0 27 37 3662.96 -16.38 141.09 252.95 66.58 1 28 40 3063.0 -19.41 133.73
 100.00 3 57 36 2984.09 -26.81 95.05 256.71 76.26 4 47 20 2384.1 -28.44 86.63
 100.00 0 58 2 3564.63 -12.30 131.88 250.95 62.54 1 57 26 2964.6 -15.88 124.92
 110.00 6 9 53 2570.06 -33.40 65.06 258.16 82.27 6 52 43 1970.1 -34.11 55.89
 110.00 1 2 14 3551.42 -6.52 127.43 247.49 56.37 2 1 25 2951.4 -10.90 121.07

DIFFERENTIAL CORRECTIONS

TDE -.7557 TRA-1.3759 TC3 .3327 BAU .0891
 RDE -.2920 RRA -.0442 RC3 -.0066 FAU .04123
 FDE 1.2761 FRA 1.7504 FC3-1.7820 BSP 7375
 BOE .8102 BRA 1.3766 BC3 .3327 FSP -849

MID-COURSE EXECUTION ACCURACY

SGT 2236.7 SGR 379.4 SG3 294.9
 RRT .5747 RRF -.5898 RTF -.9321
 SGB 2268.6 R23 -.0534 R13 -.9329
 SG1 2247.5 SG2 309.0 TMA 5.67

ORBIT DETERMINATION ACCURACY

ST 1137.6 SR 374.4 SS 1115.2
 CRT .8763 CRS .9266 CST .9929
 LSA 1626.0 MSA 183.3 SSA 15.8
 EL1 1185.1 EL2 173.1 ALF 16.45

LAUNCH DATE DEC 21 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 316.717
 RL 147.17 LAL .00 LOL 89.20 VL 26.980 GAL 4.76 AZL 87.42 MCA 134.06 SMA 123.38 ECC .20931 INC 2.5827 V1 30.273
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.104 GAP -9.84 AZP 91.80 TAL 161.40 TAP 295.46 RCA 97.55 APO 149.20 V2 35.013
 RC 47.558 GL 16.29 GP 5.64 ZAL 56.99 ZAP 14.32 ETS 339.58 ZAE 161.29 ETE 356.22 ZAC 121.64 ETC 161.81 CLP -13.18

PLANETOCENTRIC CONIC

C3 18.657 VHL 4.319 DLA 28.01 RAL 25.35 RAD 6567.8 VEL 11.834 PTH 2.10 VHP 6.787 DPA 14.41 RAP 26.64 ECC 1.3071
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 41 21 3401.58 -22.65 124.50 253.74 72.53 2 38 2 2801.6 -24.83 116.50
 90.00 0 28 27 3638.35 -17.04 139.59 251.55 67.04 1 29 5 3038.3 -20.01 132.17
 100.00 3 55 3 2970.52 -27.03 94.10 255.07 76.72 4 44 34 2370.5 -28.59 85.65
 100.00 0 57 25 3544.64 -12.93 130.72 249.55 62.81 1 56 30 2944.6 -16.47 123.72
 110.00 6 7 48 2555.02 -33.53 63.91 256.42 82.94 6 50 23 1955.0 -34.15 54.72
 110.00 1 1 9 3532.90 -7.22 126.45 246.16 56.50 2 0 2 2932.9 -11.58 120.06

DIFFERENTIAL CORRECTIONS

TDE -.7521 TRA-1.3420 TC3 .4087 BAU .1020
 RDE -.2826 RRA -.0611 RC3 .0179 FAU .04480
 FDE 1.3678 FRA 1.8529 FC3-2.0790 BSP 7590
 BOE .8034 BRA 1.3434 BC3 .4091 FSP -949

MID-COURSE EXECUTION ACCURACY

SGT 2277.2 SGR 386.2 SG3 326.4
 RRT .6418 RRF -.6604 RTF -.9368
 SGB 2309.7 R23 -.0638 R13 -.9378
 SG1 2290.9 SG2 294.4 TMA 6.32

ORBIT DETERMINATION ACCURACY

ST 1166.8 SR 375.8 SS 1171.7
 CRT .8908 CRS .9363 CST .9934
 LSA 1686.5 MSA 175.5 SSA 15.5
 EL1 1214.8 EL2 164.1 ALF 16.32

LAUNCH DATE DEC 21 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.073 GAL 4.53 AZL 87.50 MCA 137.26 SMA 123.96 ECC .20268 INC 2.4966 V1 30.273
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.159 GAP -9.19 AZP 91.83 TAL 161.59 TAP 298.85 RCA 98.83 APO 149.08 V2 35.000
 RC 48.883 GL 16.36 GP 6.33 ZAL 57.33 ZAP 16.44 ETS 340.33 ZAE 159.80 ETE 359.77 ZAC 122.48 ETC 161.07 CLP -15.21

PLANETOCENTRIC CONIC

C3 17.413 VHL 4.173 DLA 27.96 RAL 24.97 RAD 6567.7 VEL 11.781 PTH 2.08 VHP 6.431 DPA 15.50 RAP 27.47 ECC 1.2866
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 5 3374.84 -23.18 122.72 252.29 73.27 2 39 20 2774.8 -25.26 114.66
 90.00 0 23 39 3632.90 -17.18 139.25 249.99 67.14 1 24 12 3032.9 -20.13 131.82
 100.00 3 54 51 2950.02 -27.34 92.66 253.49 77.42 4 44 1 2350.0 -28.80 84.16
 100.00 0 54 34 3532.95 -13.29 130.04 248.11 62.98 1 53 27 2932.9 -16.81 123.02
 110.00 6 6 58 2536.53 -33.68 62.49 254.71 83.78 6 49 15 1936.5 -34.17 53.28
 110.00 0 58 56 3519.20 -7.74 125.72 244.82 56.60 1 57 35 2919.2 -12.08 119.31

DIFFERENTIAL CORRECTIONS

TDE -.7476 TRA-1.3096 TC3 .4829 BAU .1130
 RDE -.2756 RRA -.0799 RC3 .0492 FAU .04873
 FDE 1.4677 FRA 1.9700 FC3-2.4226 BSP 7734
 BDE .7968 BRA 1.3120 BC3 .4854 FSP -1058

MID-COURSE EXECUTION ACCURACY

SGT 2315.2 SGR 400.4 SG3 361.7
 RRT .7097 RRF -.7314 RTF -.9407
 SGB 2349.6 R23 -.0765 R13 -.9419
 SG1 2332.8 SG2 280.0 THA 7.10

ORBIT DETERMINATION ACCURACY

ST 1194.5 SR 380.2 SS 1231.1
 CRT .9054 CRS .9459 CST .9939
 LSA 1748.9 MSA 167.4 SSA 15.3
 EL1 1243.9 EL2 155.1 ALF 16.34

LAUNCH DATE DEC 21 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.158 GAL 4.32 AZL 87.60 MCA 140.46 SMA 124.49 ECC .19658 INC 2.3996 V1 30.273
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.209 GAP -8.56 AZP 91.85 TAL 161.81 TAP 302.27 RCA 100.02 APO 148.97 V2 34.987
 RC 50.327 GL 16.32 GP 7.15 ZAL 57.67 ZAP 18.71 ETS 340.71 ZAE 158.50 ETE 3.17 ZAC 123.17 ETC 160.25 CLP -17.33

PLANETOCENTRIC CONIC

C3 16.282 VHL 4.035 DLA 27.78 RAL 24.62 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 6.092 DPA 16.67 RAP 28.16 ECC 1.2680
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 19 3331.15 -24.01 119.78 250.98 74.52 2 45 50 2731.1 -25.90 111.62
 90.00 0 13 36 3645.72 -16.84 140.04 248.31 66.90 1 14 22 3045.7 -19.83 132.64
 100.00 3 57 24 2921.46 -27.75 90.63 251.98 78.41 4 46 5 2321.5 -29.06 82.08
 100.00 0 49 12 3530.64 -13.36 129.91 246.62 63.01 1 48 2 2930.6 -16.88 122.88
 110.00 6 7 39 2513.82 -33.83 60.73 253.03 84.80 6 49 33 1913.8 -34.18 51.50
 110.00 0 55 26 3511.04 -8.04 125.28 243.48 56.66 1 53 57 2911.0 -12.37 118.86

DIFFERENTIAL CORRECTIONS

TDE -.7391 TRA-1.2762 TC3 .5596 BAU .1233
 RDE -.2713 RRA -.1011 RC3 .0893 FAU .05312
 FDE 1.5731 FRA 2.1019 FC3-2.8245 BSP 7850
 BDE .7873 BRA 1.2802 BC3 .5666 FSP -1180

MID-COURSE EXECUTION ACCURACY

SGT 2345.4 SGR 424.2 SG3 401.2
 RRT .7733 RRF -.7983 RTF -.9441
 SGB 2383.4 R23 -.0924 R13 -.9457
 SG1 2368.5 SG2 266.3 THA 8.06

ORBIT DETERMINATION ACCURACY

ST 1216.2 SR 388.3 SS 1291.3
 CRT .9195 CRS .9552 CST .9944
 LSA 1808.8 MSA 159.4 SSA 15.0
 EL1 1268.3 EL2 146.3 ALF 16.59

LAUNCH DATE DEC 21 1968

FLIGHT TIME 130.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.236 GAL 4.12 AZL 87.71 MCA 143.66 SMA 124.99 ECC .19099 INC 2.2886 V1 30.273
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.253 GAP -7.95 AZP 91.84 TAL 162.04 TAP 305.69 RCA 101.12 APO 148.86 V2 34.974
 RC 51.881 GL 16.13 GP 8.14 ZAL 58.00 ZAP 21.13 ETS 340.79 ZAE 157.40 ETE 6.61 ZAC 123.66 ETC 159.32 CLP -19.57

PLANETOCENTRIC CONIC

C3 15.251 VHL 3.905 DLA 27.46 RAL 24.31 RAD 6567.6 VEL 11.689 PTH 2.06 VHP 5.770 DPA 17.95 RAP 28.67 ECC 1.2510
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 1 45 3274.80 -24.98 115.94 249.77 76.21 2 56 20 2674.8 -26.63 107.66
 90.00 23 55 48 3672.44 -16.12 141.67 246.57 66.40 24 57 0 3072.4 -19.18 134.33
 100.00 4 2 58 2884.00 -28.23 87.96 250.54 79.74 4 51 2 2284.0 -29.36 79.33
 100.00 0 41 11 3538.46 -13.12 130.36 245.10 62.90 1 40 10 2938.5 -16.65 123.35
 110.00 6 10 10 2485.97 -33.98 58.57 251.38 86.07 6 51 36 1886.0 -34.15 49.33
 110.00 0 50 29 3509.26 -8.11 125.19 242.13 56.68 1 48 58 2909.3 -12.44 118.77

DIFFERENTIAL CORRECTIONS

TDE -.7259 TRA-1.2416 TC3 .6375 BAU .1331
 RDE -.2699 RRA -.1258 RC3 .1411 FAU .05802
 FDE 1.6821 FRA 2.2507 FC3-3.2937 BSP 7954
 BDE .7745 BRA 1.2480 BC3 .6529 FSP -1316

MID-COURSE EXECUTION ACCURACY

SGT 2365.8 SGR 460.7 SG3 445.3
 RRT .8291 RRF -.8571 RTF -.9473
 SGB 2410.3 R23 -.1118 R13 -.9494
 SG1 2396.8 SG2 254.2 THA 9.28

ORBIT DETERMINATION ACCURACY

ST 1230.4 SR 400.9 SS 1350.9
 CRT .9330 CRS .9640 CST .9949
 LSA 1864.5 MSA 151.2 SSA 14.7
 EL1 1286.7 EL2 137.9 ALF 17.11

LAUNCH DATE DEC 21 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.307 GAL 3.93 AZL 87.84 MCA 146.85 SMA 125.44 ECC .18588 INC 2.1593 V1 30.273
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.293 GAP -7.35 AZP 91.81 TAL 162.27 TAP 309.12 RCA 102.13 APO 148.76 V2 34.961
 RC 53.536 GL 15.75 GP 9.34 ZAL 58.31 ZAP 23.75 ETS 340.59 ZAE 156.47 ETE 10.29 ZAC 123.93 ETC 158.28 CLP -21.94

PLANETOCENTRIC CONIC

C3 14.307 VHL 3.782 DLA 26.97 RAL 24.08 RAD 6567.6 VEL 11.649 PTH 2.04 VHP 5.466 DPA 19.38 RAP 28.96 ECC 1.2355
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 16 29 3208.77 -25.97 111.36 248.61 78.30 3 9 57 2608.8 -27.32 102.95
 90.00 23 39 13 3709.97 -15.09 143.94 244.84 65.75 24 41 3 3110.0 -18.24 136.68
 100.00 4 11 48 2837.01 -28.75 84.56 249.16 81.45 4 59 5 2237.0 -29.64 75.87
 100.00 0 30 31 3556.97 -12.54 131.44 243.57 62.64 1 29 48 2957.0 -16.11 124.46
 110.00 6 14 53 2451.87 -34.11 59.91 249.76 87.64 6 55 45 1851.9 -34.06 46.67
 110.00 0 43 55 3514.87 -7.90 125.49 240.81 56.63 1 42 30 2914.9 -12.23 119.07

DIFFERENTIAL CORRECTIONS

TDE -.7049 TRA-1.2047 TC3 .7200 BAU .1434
 RDE -.2718 RRA -.1551 RC3 .2087 FAU .06355
 FDE 1.7884 FRA 2.4176 FC3-3.8456 BSP 8080
 BDE .7555 BRA 1.2146 BC3 .7496 FSP -1473

MID-COURSE EXECUTION ACCURACY

SGT 2372.5 SGR 513.7 SG3 494.0
 RRT .8741 RRF -.9049 RTF -.9503
 SGB 2427.5 R23 -.1344 R13 -.9531
 SG1 2415.1 SG2 245.1 THA 10.83

ORBIT DETERMINATION ACCURACY

ST 1231.9 SR 419.2 SS 1406.3
 CRT .9453 CRS .9718 CST .9954
 LSA 1910.6 MSA 143.0 SSA 14.3
 EL1 1294.8 EL2 130.1 ALF 18.02

LAUNCH DATE DEC 21 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 350.006

RL 147.17 LAL .00 LOL 89.20 VL 27.371 GAL 3.77 AZL 87.99 HCA 150.04 SMA 125.86 ECC .18123 INC 2.0060 V1 30.273
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.328 GAP -6.78 AZP 91.74 TAL 162.52 TAP 312.56 RCA 103.05 APO 148.67 V2 34.948
 RC 55.282 GL 15.12 GP 10.83 ZAL 58.57 ZAP 26.60 ETS 340.11 ZAE 155.68 ETE 14.42 ZAC 123.91 ETC 157.09 CLP -24.45

PLANETOCENTRIC CONIC

C3 13.438 VHL 3.666 DLA 26.24 RAL 23.95 RAD 6567.5 VEL 11.611 PTH 2.03 VHP 5.182 OPA 21.01 RAP 29.00 ECC 1.2212
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 16 3133.86 -26.90 106.07 247.46 80.80 3 26 30 2533.9 -27.89 97.54
 90.00 23 20 25 3757.40 -13.74 146.77 243.16 65.00 24 23 2 3157.4 -17.00 139.61
 100.00 4 24 7 2779.71 -29.26 80.38 247.83 83.60 5 10 27 2179.7 -29.84 71.62
 100.00 0 17 10 3586.79 -11.60 133.15 242.07 62.26 1 16 57 2986.8 -15.23 126.24
 110.00 6 22 15 2410.08 -34.18 52.65 248.18 89.57 7 2 25 1810.1 -33.86 43.42
 110.00 0 35 32 3529.18 -7.36 126.25 239.53 56.52 1 34 21 2929.2 -11.71 119.86

DIFFERENTIAL CORRECTIONS

TDE -.6797 TRA-1.1689 TC3 .7903 BAU .1516
 RDE -.2777 RRA -.1915 RC3 .2959 FAU .06942
 FDE 1.8908 FRA 2.6090 FC3-4.4723 BSP 8109
 BOE .7343 BRA 1.1845 BC3 .8439 FSP -1637

MID-COURSE EXECUTION ACCURACY

SGT 2389.3 SGR 589.0 SG3 547.5
 RRT .9077 RRF -.9409 RTF -.9525
 SGB 2441.4 R23 -.1603 R13 -.9564
 SG1 2429.5 SG2 241.0 THA 12.84

ORBIT DETERMINATION ACCURACY

ST 1225.7 SR 445.5 SS 1458.0
 CRT .9567 CRS .9788 CST .9959
 LSA 1951.5 MSA 134.2 SSA 14.0
 EL1 1298.4 EL2 122.4 ALF 19.35

LAUNCH DATE DEC 21 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 356.606

RL 147.17 LAL .00 LOL 89.20 VL 27.429 GAL 3.61 AZL 88.18 HCA 153.23 SMA 126.24 ECC .17702 INC 1.8201 V1 30.273
 RP 108.47 LAP .82 LOP 242.44 VP 37.359 GAP -6.23 AZP 91.63 TAL 162.76 TAP 315.99 RCA 103.89 APO 148.59 V2 34.936
 RC 57.109 GL 14.16 GP 12.70 ZAL 58.79 ZAP 29.73 ETS 339.37 ZAE 154.96 ETE 19.25 ZAC 123.55 ETC 155.75 CLP -27.11

PLANETOCENTRIC CONIC

C3 12.633 VHL 3.554 DLA 25.21 RAL 23.97 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 4.921 OPA 22.93 RAP 28.72 ECC 1.2079
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 24 3049.06 -27.67 99.99 246.32 83.75 3 46 13 2449.1 -28.25 91.37
 90.00 22 59 25 3815.57 -12.04 150.20 241.56 64.18 24 3 0 3215.6 -15.42 143.15
 100.00 4 40 21 2710.72 -29.68 75.29 246.52 86.24 5 25 31 2110.7 -29.88 66.49
 100.00 0 1 5 3629.15 -10.25 135.57 240.63 61.77 1 1 34 3029.1 -13.95 128.73
 110.00 6 32 53 2358.61 -34.13 48.63 246.61 91.95 7 12 12 1758.6 -33.49 39.45
 110.00 0 25 2 3554.02 -6.43 127.56 238.32 56.35 1 24 16 2954.0 -10.80 121.21

DIFFERENTIAL CORRECTIONS

TDE -.6437 TRA-1.1295 TC3 .8628 BAU .1615
 RDE -.2874 RRA -.2373 RC3 .4129 FAU .07591
 FDE 1.9705 FRA 2.8194 FC3-5.2023 BSP 8188
 BOE .7049 BRA 1.1541 BC3 .9565 FSP -1824

MID-COURSE EXECUTION ACCURACY

SGT 2345.8 SGR 692.5 SG3 604.8
 RRT .9305 RRF -.9656 RTF -.9545
 SGB 2445.9 R23 -.1848 R13 -.9600
 SG1 2433.6 SG2 244.5 THA 15.52

ORBIT DETERMINATION ACCURACY

ST 1200.6 SR 480.5 SS 1495.5
 CRT .9664 CRS .9845 CST .9963
 LSA 1973.0 MSA 124.8 SSA 13.6
 EL1 1288.0 EL2 115.0 ALF 21.32

LAUNCH DATE DEC 21 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 363.185

RL 147.17 LAL .00 LOL 89.20 VL 27.481 GAL 3.47 AZL 88.41 HCA 156.41 SMA 126.58 ECC .17322 INC 1.5883 V1 30.273
 RP 108.51 LAP .64 LOP 245.62 VP 37.386 GAP -5.69 AZP 91.46 TAL 163.00 TAP 319.42 RCA 104.66 APO 148.51 V2 34.923
 RC 59.010 GL 12.74 GP 15.08 ZAL 58.94 ZAP 33.21 ETS 338.33 ZAE 154.15 ETE 25.02 ZAC 122.75 ETC 154.22 CLP -29.95

PLANETOCENTRIC CONIC

C3 11.884 VHL 3.447 DLA 23.77 RAL 24.19 RAD 6567.5 VEL 11.544 PTH 2.01 VHP 4.687 OPA 25.26 RAP 28.02 ECC 1.1956
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 20 38 2951.71 -28.19 92.91 245.17 87.26 4 9 50 2351.7 -28.28 84.25
 90.00 22 35 54 3887.00 -9.89 154.34 240.11 63.33 23 40 41 3287.0 -13.39 147.41
 100.00 5 1 10 2627.58 -29.89 69.12 245.22 89.48 5 44 57 2027.6 -29.64 60.33
 100.00 23 38 4 3686.36 -8.39 138.80 239.31 61.20 24 39 30 3086.4 -12.17 132.05
 110.00 6 47 37 2294.53 -33.87 43.65 245.05 94.89 7 25 52 1694.5 -32.83 34.57
 110.00 0 12 2 3592.18 -4.98 129.57 237.23 56.14 1 11 54 2992.2 -9.40 123.27

DIFFERENTIAL CORRECTIONS

TDE -.5987 TRA-1.0887 TC3 .9254 BAU .1727
 RDE -.3012 RRA -.2973 RC3 .5705 FAU .08266
 FDE 2.0136 FRA 3.0514 FC3-6.0218 BSP 8253
 BOE .6702 BRA 1.1286 BC3 1.0872 FSP -2020

MID-COURSE EXECUTION ACCURACY

SGT 2303.6 SGR 834.8 SG3 664.5
 RRT .9447 RRF -.9814 RTF -.9560
 SGB 2450.2 R23 -.2034 R13 -.9641
 SG1 2436.5 SG2 258.8 THA 19.12

ORBIT DETERMINATION ACCURACY

ST 1158.6 SR 526.3 SS 1514.0
 CRT .9749 CRS .9890 CST .9969
 LSA 1974.4 MSA 113.8 SSA 13.4
 EL1 1268.0 EL2 107.1 ALF 24.07

LAUNCH DATE DEC 21 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 369.743

RL 147.17 LAL .00 LOL 89.20 VL 27.528 GAL 3.35 AZL 88.71 HCA 159.60 SMA 126.90 ECC .16982 INC 1.2886 V1 30.273
 RP 108.55 LAP .45 LOP 248.80 VP 37.409 GAP -5.16 AZP 91.21 TAL 163.23 TAP 322.83 RCA 105.35 APO 148.45 V2 34.911
 RC 60.976 GL 10.65 GP 18.20 ZAL 59.01 ZAP 37.15 ETS 336.96 ZAE 153.00 ETE 32.00 ZAC 121.36 ETC 152.46 CLP -32.96

PLANETOCENTRIC CONIC

C3 11.185 VHL 3.344 DLA 21.70 RAL 24.68 RAD 6567.4 VEL 11.514 PTH 2.01 VHP 4.488 OPA 28.17 RAP 26.76 ECC 1.1841
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 51 21 2836.92 -28.28 84.52 244.00 91.46 4 38 38 2236.9 -27.78 75.89
 90.00 22 9 10 3976.54 -7.11 159.45 238.90 62.52 23 15 27 3376.5 -10.74 152.65
 100.00 5 27 50 2525.79 -29.71 61.56 243.93 93.46 6 9 56 1925.8 -28.91 52.85
 100.00 23 15 22 3762.90 -5.86 143.07 238.21 60.63 24 18 5 3162.9 -9.73 136.42
 110.00 7 7 45 2213.20 -33.23 37.39 243.49 98.54 7 44 39 1613.2 -31.69 28.50
 110.00 23 51 56 3648.26 -2.85 132.51 236.35 55.92 24 52 44 3048.3 -7.30 126.26

DIFFERENTIAL CORRECTIONS

TDE -.5429 TRA-1.0464 TC3 .9717 BAU .1869
 RDE -.3178 RRA -.3788 RC3 .7864 FAU .08913
 FDE 1.9900 FRA 3.2977 FC3-6.8988 BSP 8332
 BOE .6291 BRA 1.1129 BC3 1.2500 FSP -2213

MID-COURSE EXECUTION ACCURACY

SGT 2238.4 SGR 1030.0 SG3 722.3
 RRT .9525 RRF -.9907 RTF -.9567
 SGB 2464.0 R23 -.2105 R13 -.9690
 SG1 2447.2 SG2 287.0 THA 24.02

ORBIT DETERMINATION ACCURACY

ST 1095.7 SR 583.6 SS 1500.4
 CRT .9821 CRS .9923 CST .9977
 LSA 1944.8 MSA 100.1 SSA 13.6
 EL1 1237.6 EL2 97.3 ALF 27.80

LAUNCH DATE DEC 21 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 376.278

RL 147.17 LAL .00 LOL 89.20 VL 27.569 GAL 3.24 AZL 89.12 HCA 162.78 SMA 127.18 ECC .16679 INC .8843 V1 30.273
 RP 108.58 LAP .26 LOP 251.98 VP 37.429 GAP -4.66 AZP 90.84 TAL 163.44 TAP 326.22 RCA 105.96 APO 148.39 V2 34.900
 RC 63.000 GL 7.52 GP 22.37 ZAL 59.02 ZAP 41.70 ETS 335.23 ZAE 151.08 ETE 40.28 ZAC 119.19 ETC 150.45 CLP -36.16

PLANETOCENTRIC CONIC

C3 10.543 VHL 3.247 OLA 18.67 RAL 25.59 RAD 6567.4 VEL 11.486 PTH 2.00 VHP 4.342 DPA 31.95 RAP 24.72 ECC 1.1735
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 29 57 2696.02 -27.61 74.27 242.84 96.55 5 14 53 2096.0 -26.41 65.81
 90.00 21 37 48 4093.27 -3.40 166.02 238.09 61.87 22 46 1 3493.3 -7.14 159.34
 100.00 6 2 36 2397.25 -28.81 52.12 242.66 98.35 6 42 33 1797.2 -27.35 43.62
 100.00 22 47 50 3867.28 -2.34 148.82 237.50 60.19 23 52 17 3267.3 -6.29 142.26
 110.00 7 35 26 2106.80 -31.86 29.39 241.99 103.09 8 10 33 1506.8 -29.74 20.83
 110.00 23 31 29 3730.49 .29 136.80 235.86 55.82 24 33 40 3130.5 -4.19 130.59

DIFFERENTIAL CORRECTIONS

TDE -.4633 TRA -.9910 TC3 1.0437 BAU .2140
 RDE -.3286 RRA -.4896 RC3 1.1030 FAU .09570
 FDE 1.8250 FRA 3.5094 FC3 -7.8586 BSP 8812
 BOE .5680 BRA 1.1053 BC3 1.5185 FSP -2440

MID-COURSE EXECUTION ACCURACY

SGT 2129.4 SGR 1296.5 SG3 768.6
 RRT .9572 RRF -.9956 RTF -.9584
 SGB 2493.0 R23 -.1950 R13 -.9766
 SG1 2472.0 SG2 323.2 THA 30.82

ORBIT DETERMINATION ACCURACY

ST 987.5 SR 641.5 SS 1415.8
 CRT .9880 CRS .9944 CST .9986
 LSA 1839.6 MSA 83.4 SSA 14.3
 EL1 1174.7 EL2 83.3 ALF 32.88

LAUNCH DATE DEC 21 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 382.798

RL 147.17 LAL .00 LOL 89.20 VL 27.606 GAL 3.14 AZL 89.70 HCA 165.96 SMA 127.42 ECC .16413 INC .3012 V1 30.273
 RP 108.62 LAP .07 LOP 255.18 VP 37.445 GAP -4.16 AZP 90.30 TAL 163.62 TAP 329.58 RCA 106.51 APO 148.34 V2 34.889
 RC 65.076 GL 2.65 GP 28.11 ZAL 59.03 ZAP 47.11 ETS 333.11 ZAE 147.66 ETE 49.57 ZAC 115.89 ETC 148.18 CLP -39.50

PLANETOCENTRIC CONIC

C3 10.011 VHL 3.164 OLA 14.03 RAL 27.15 RAD 6567.4 VEL 11.463 PTH 1.99 VHP 4.285 DPA 37.03 RAP 21.48 ECC 1.1648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 20 53 2513.54 -25.52 61.34 241.91 102.70 6 2 47 1913.5 -23.52 53.24
 90.00 20 59 16 4254.95 1.81 175.04 238.13 61.74 22 10 11 3654.9 -1.98 168.42
 100.00 6 49 40 2227.24 -26.52 40.01 241.64 104.32 7 26 47 1627.2 -24.29 31.92
 100.00 22 13 11 4016.46 2.71 157.01 237.63 60.22 23 20 7 3416.5 -1.27 150.49
 110.00 8 14 34 1961.58 -29.15 18.96 240.76 108.70 8 47 15 1361.6 -26.32 10.92
 110.00 23 4 46 3854.89 5.04 143.31 236.18 56.15 24 9 1 3254.9 .56 137.09

DIFFERENTIAL CORRECTIONS

TDE -.4491 TRA -1.0117 TC3 .7651 BAU .2149
 RDE -.3584 RRA -.6893 RC3 1.4118 FAU .09059
 FDE 1.6736 FRA 3.8635 FC3 -7.8343 BSP 7494
 BOE .5746 BRA 1.2242 BC3 1.6037 FSP -2208

MID-COURSE EXECUTION ACCURACY

SGT 2112.3 SGR 1695.5 SG3 800.1
 RRT .9466 RRF -.9982 RTF -.9448
 SGB 2708.6 R23 -.1994 R13 -.9781
 SG1 2673.9 SG2 432.0 THA 38.41

ORBIT DETERMINATION ACCURACY

ST 991.3 SR 755.7 SS 1379.5
 CRT .9972 CRS .9965 CST .9996
 LSA 1858.3 MSA 55.6 SSA 20.5
 EL1 1245.6 EL2 45.0 ALF 37.30

LAUNCH DATE DEC 21 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 389.283

RL 147.17 LAL .00 LOL 89.20 VL 27.639 GAL 3.06 AZL 90.61 HCA 169.13 SMA 127.64 ECC .16178 INC .6056 V1 30.273
 RP 108.65 LAP -.11 LOP 258.33 VP 37.459 GAP -3.68 AZP 89.40 TAL 163.79 TAP 332.92 RCA 106.99 APO 148.29 V2 34.878
 RC 67.198 GL -5.36 GP 36.26 ZAL 59.43 ZAP 53.81 ETS 330.63 ZAE 141.63 ETE 59.09 ZAC 110.93 ETC 145.73 CLP -42.92

PLANETOCENTRIC CONIC

C3 9.772 VHL 3.126 OLA 6.42 RAL 29.73 RAD 6567.4 VEL 11.453 PTH 1.99 VHP 4.396 DPA 44.08 RAP 16.07 ECC 1.1608
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 33 17 2257.68 -20.59 44.23 241.88 109.88 7 10 55 1657.7 -17.70 36.75
 90.00 20 7 28 4501.20 9.60 188.95 240.08 63.23 21 22 30 3901.2 5.93 182.19
 100.00 7 57 41 1985.47 -21.44 23.87 241.54 111.34 8 30 46 1385.5 -18.35 16.43
 100.00 21 25 46 4248.63 10.41 169.95 239.65 61.82 22 36 34 3648.6 6.56 163.27
 110.00 9 12 55 1750.03 -23.71 4.93 240.48 115.38 9 42 5 1150.0 -20.09 357.65
 110.00 22 27 1 4056.84 12.54 154.13 238.39 57.94 23 34 38 3456.8 8.22 147.70

DIFFERENTIAL CORRECTIONS

TDE -.3239 TRA -.9342 TC3 .8366 BAU .2828
 RDE -.2991 RRA -.9383 RC3 1.9968 FAU .08964
 FDE 1.0231 FRA 3.7877 FC3 -7.9417 BSP 9178
 BOE .4409 BRA 1.3241 BC3 2.1650 FSP -2304

MID-COURSE EXECUTION ACCURACY

SGT 1896.1 SGR 2203.3 SG3 758.0
 RRT .9481 RRF -.9993 RTF -.9467
 SGB 2906.8 R23 -.1387 R13 -.9897
 SG1 2869.7 SG2 463.1 THA 49.52

ORBIT DETERMINATION ACCURACY

ST 787.3 SR 756.0 SS 1069.7
 CRT .9987 CRS .9966 CST .9917
 LSA 1525.9 MSA 84.9 SSA 11.3
 EL1 1091.2 EL2 27.9 ALF 43.84

LAUNCH DATE DEC 21 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 395.745

RL 147.17 LAL .00 LOL 89.20 VL 27.667 GAL 2.99 AZL 92.25 HCA 172.30 SMA 127.84 ECC .15977 INC 2.2541 V1 30.273
 RP 108.68 LAP -.30 LOP 261.50 VP 37.471 GAP -3.22 AZP 87.77 TAL 163.91 TAP 336.21 RCA 107.41 APO 148.26 V2 34.867
 RC 69.360 GL -19.39 GP 48.07 ZAL 61.56 ZAP 62.33 ETS 327.98 ZAE 131.45 ETE 67.44 ZAC 103.57 ETC 143.37 CLP -45.99

PLANETOCENTRIC CONIC

C3 10.716 VHL 3.273 OLA -6.87 RAL 34.23 RAD 6567.4 VEL 11.494 PTH 2.00 VHP 4.921 DPA 53.90 RAP 6.02 ECC 1.1764
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 30 53 1861.31 -9.73 20.23 245.71 116.72 9 1 55 1261.3 -6.06 13.47
 90.00 18 45 48 4934.59 21.34 215.31 247.77 70.93 20 8 3 4334.6 18.54 207.75
 100.00 9 48 57 1609.55 -10.57 1.27 245.27 118.13 10 15 47 1009.5 -6.72 354.59
 100.00 20 10 26 4661.64 22.22 194.89 247.43 69.48 21 28 7 4061.6 19.23 187.37
 110.00 10 49 42 1419.30 -12.78 345.53 243.96 121.98 11 13 21 819.3 -8.46 339.10
 110.00 21 26 10 4424.59 24.59 175.82 246.36 65.47 22 39 55 3824.6 21.07 168.44

DIFFERENTIAL CORRECTIONS

TDE -.2373 TRA -.9062 TC3 .6441 BAU .3532
 RDE -.1260 RRA -1.3790 RC3 2.3796 FAU .07173
 FDE .2364 FRA 3.4159 FC3 -5.7949 BSP 10614
 BOE .2687 BRA 1.6501 BC3 2.4652 FSP -1910

MID-COURSE EXECUTION ACCURACY

SGT 1703.7 SGR 2895.9 SG3 616.0
 RRT .9389 RRF -.9998 RTF -.9379
 SGB 3359.9 R23 -.0899 R13 -.9954
 SG1 3320.8 SG2 511.2 THA 60.31

ORBIT DETERMINATION ACCURACY

ST 634.4 SR 763.4 SS 789.4
 CRT .9122 CRS .9977 CST .8822
 LSA 1243.3 MSA 250.0 SSA 2.9
 EL1 971.3 EL2 204.3 ALF 50.77

LAUNCH DATE DEC 21 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.691 GAL 2.94 AZL 96.17 MCA 175.44 SMA 128.00 ECC .15807 INC 6.1667 V1 30.273
 RP 108.72 LAP -.49 LOP 264.67 VP 37.479 GAP -2.77 AZP 83.85 TAL 163.99 TAP 339.43 RCA 107.77 APO 148.24 V2 34.858
 RC 71.560 GL -43.10 GP 65.16 ZAL 69.32 ZAP 73.08 ETS 324.82 ZAE 115.19 ETE 72.33 ZAC 93.18 ETC 141.01 CLP -46.15

PLANETOCENTRIC CONIC
 C3 18.904 VHL 4.348 DLA -29.34 RAL 42.39 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 6.814 DPA 66.38 RAP 341.72 ECC 1.3111
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.99 13 4 54 1092.20 20.63 339.35 270.31 111.33 13 23 6 492.2 23.35 331.65
 98.01 15 16 50 665.88 20.64 308.06 270.31 111.32 15 27 56 65.9 23.36 300.36
 100.00 14 43 50 771.68 16.80 314.16 268.57 115.09 14 56 42 171.7 20.04 306.86
 100.00 16 20 36 5749.67 24.57 272.34 271.81 107.58 17 56 25 5149.7 26.75 264.22
 110.00 14 24 12 833.49 9.29 314.54 264.29 123.05 14 38 6 233.5 13.58 308.06
 110.00 18 56 43 5260.62 32.92 237.56 274.13 99.77 20 24 23 4660.6 33.92 228.47

DIFFERENTIAL CORRECTIONS
 TDE -.2156 TRA -1.9878 TC3 .2819 BAU .4042
 RDE .3603 RRA -2.2323 RC3 1.5742 FAU .03652
 FDE -.3923 FRA 2.4536 FC3 -1.6723 BSP 12478
 BDE .4199 BRA 2.4411 BC3 1.5992 FSP -1095

MID-COURSE EXECUTION ACCURACY
 SGT 1539.7 SGR 3672.3 SG3 347.1
 RRT .9267 RRF -.9999 RTF -.9293
 SGB 3982.0 R23 -.0469 R13 -.9989
 SG1 3945.4 SG2 538.7 THA 68.34

ORBIT DETERMINATION ACCURACY
 ST 530.5 SR 1118.9 SS 722.8
 CRT .5372 CRS 1.0000 CST .5403
 LSA 1365.9 MSA 436.1 SSA .7
 EL1 1160.8 EL2 431.3 ALF 73.35

LAUNCH DATE DEC 21 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.712 GAL 2.93 AZL 116.36 MCA 178.48 SMA 128.15 ECC .15679 INC26.3561 V1 30.273
 RP 108.74 LAP -.67 LOP 267.84 VP 37.486 GAP -2.36 AZP 63.65 TAL 163.91 TAP 342.39 RCA 108.05 APO 148.24 V2 34.848
 RC 73.792 GL -65.17 GP 81.20 ZAL 83.51 ZAP 84.78 ETS 230.34 ZAE 87.12 ETE 341.42 ZAC 80.81 ETC 49.71 CLP 53.47

PLANETOCENTRIC CONIC
 C3 183.273 VHL 13.538 DLA -52.18 RAL 48.55 RAD 6571.0 VEL 17.453 PTH 2.96 VHP 18.764 DPA 70.93 RAP 259.01 ECC 4.0162
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.15 10 15 0 2177.43 8.44 59.02 311.92 141.69 10 51 17 1577.4 14.68 54.32
 135.85 18 55 55 617.27 8.46 294.97 311.94 141.69 19 6 12 17.3 14.69 290.28
 44.15 10 15 0 2177.43 8.44 59.02 311.92 141.69 10 51 17 1577.4 14.68 54.32
 135.85 18 55 55 617.27 8.46 294.97 311.94 141.69 19 6 12 17.3 14.69 290.28
 44.15 10 15 0 2177.43 8.44 59.02 311.92 141.69 10 51 17 1577.4 14.68 54.32
 135.85 18 55 55 617.27 8.46 294.97 311.94 141.69 19 6 12 17.3 14.69 290.28

DIFFERENTIAL CORRECTIONS
 TDE 2.4638 TRA -5.0970 TC3 -.1179 BAU .3393
 RDE .6274 RRA 3.3903 RC3 .0727 FAU-.00824
 FDE -.5505 FRA 1.5774 FC3 .0389 BSP 13616
 BDE 2.5424 BRA 6.1216 BC3 .1385 FSP -311

MID-COURSE EXECUTION ACCURACY
 SGT 3683.5 SGR 2363.5 SG3 96.6
 RRT -.9212 RRF .9484 RTF -.9970
 SGB 4376.4 R23 .0356 R13 .9993
 SG1 4305.1 SG2 786.8 THA 148.23

ORBIT DETERMINATION ACCURACY
 ST 1483.7 SR 750.6 SS 650.5
 CRT -.4168 CRS -.5561 CST .9873
 LSA 1657.2 MSA 664.6 SSA .4
 EL1 1524.4 EL2 664.1 ALF 165.23

LAUNCH DATE DEC 21 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.730 GAL 2.83 AZL 64.62 MCA 182.00 SMA 128.26 ECC .15521 INC25.3814 V1 30.273
 RP 108.77 LAP -.86 LOP 271.01 VP 37.491 GAP -1.83 AZP 115.37 TAL 164.30 TAP 346.30 RCA 108.36 APO 148.17 V2 34.839
 RC 76.053 GL 65.32 GP -84.51 ZAL 83.49 ZAP 84.53 ETS 120.78 ZAE 89.72 ETE 11.83 ZAC 109.62 ETC 306.70 CLP 4.93

PLANETOCENTRIC CONIC
 C3 170.697 VHL 13.065 DLA 61.22 RAL 326.93 RAD 6570.8 VEL 17.089 PTH 2.93 VHP 14.152 DPA -60.06 RAP 97.73 ECC 3.8092
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.15 16 17 38 4870.23 -10.09 236.29 231.34 29.27 17 38 48 4270.2 -17.03 232.62
 146.85 2 2 9 3188.96 -10.08 97.75 231.32 29.27 2 55 18 2589.0 -17.02 94.08
 33.15 16 17 38 4870.23 -10.09 236.29 231.34 29.27 17 38 48 4270.2 -17.03 232.62
 146.85 2 2 9 3188.96 -10.08 97.75 231.32 29.27 2 55 18 2589.0 -17.02 94.08
 33.15 16 17 38 4870.23 -10.09 236.29 231.34 29.27 17 38 48 4270.2 -17.03 232.62
 146.85 2 2 9 3188.96 -10.08 97.75 231.32 29.27 2 55 18 2589.0 -17.02 94.08

DIFFERENTIAL CORRECTIONS
 TDE -8.3485 TRA 1.3330 TC3 -.1125 BAU .2852
 RDE -5.2324 RRA -.3474 RC3 -.0544 FAU-.00724
 FDE 3.1556 FRA -.4074 FC3 .0367 BSP 14419
 BDE 9.8527 BRA 1.3775 BC3 .1250 FSP -418

MID-COURSE EXECUTION ACCURACY
 SGT 3868.5 SGR 2320.7 SG3 124.1
 RRT .8976 RRF -.9217 RTF -.9983
 SGB 4511.2 R23 .0564 R13 -.9984
 SG1 4421.5 SG2 894.9 THA 29.64

ORBIT DETERMINATION ACCURACY
 ST 3679.3 SR 2296.6 SS 1697.6
 CRT .9901 CRS .9926 CST .9998
 LSA 4649.4 MSA 275.4 SSA .5
 EL1 4328.6 EL2 273.4 ALF 31.86

LAUNCH DATE DEC 21 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.744 GAL 2.83 AZL 78.20 MCA 185.08 SMA 128.36 ECC .15440 INC11.7971 V1 30.273
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.494 GAP -1.43 AZP 101.75 TAL 164.19 TAP 349.27 RCA 108.54 APO 148.18 V2 34.831
 RC 78.340 GL 58.44 GP -65.90 ZAL 77.11 ZAP 79.79 ETS 30.07 ZAE 112.46 ETE 285.72 ZAC 116.66 ETC 213.00 CLP -64.26

PLANETOCENTRIC CONIC
 C3 44.210 VHL 6.649 DLA 60.21 RAL 343.58 RAD 6568.7 VEL 12.868 PTH 2.34 VHP 6.083 DPA -49.99 RAP 62.11 ECC 1.7276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.36 17 27 2 4568.83 -27.11 225.35 236.54 33.93 18 43 11 3968.8 -33.64 220.42
 145.64 3 5 32 2898.40 -27.10 88.28 236.53 33.93 3 53 51 2298.4 -33.64 83.34
 34.36 17 27 2 4568.83 -27.11 225.35 236.54 33.93 18 43 11 3968.8 -33.64 220.42
 145.64 3 5 32 2898.40 -27.10 88.28 236.53 33.93 3 53 51 2298.4 -33.64 83.34
 34.36 17 27 2 4568.83 -27.11 225.35 236.54 33.93 18 43 11 3968.8 -33.64 220.42
 145.64 3 5 32 2898.40 -27.10 88.28 236.53 33.93 3 53 51 2298.4 -33.64 83.34

DIFFERENTIAL CORRECTIONS
 TDE -.8664 TRA -.3451 TC3 .0277 BAU .3176
 RDE 4.7637 RRA .0188 RC3 -.5366 FAU .03483
 FDE 5.5171 FRA .1299 FC3 -.6821 BSP 13178
 BDE 4.8418 BRA .3456 BC3 .5373 FSP -1348

MID-COURSE EXECUTION ACCURACY
 SGT 957.6 SGR 4166.6 SG3 418.6
 RRT -.7796 RRF .9991 RTF -.8013
 SGB 4275.2 R23 .0102 R13 .9997
 SG1 4234.3 SG2 590.1 THA 100.36

ORBIT DETERMINATION ACCURACY
 ST 767.8 SR 4105.0 SS 2499.0
 CRT -.9728 CRS -.9999 CST .9755
 LSA 4863.7 MSA 175.1 SSA 1.6
 EL1 4172.5 EL2 174.9 ALF 100.33

LAUNCH DATE DEC 21 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.755 GAL 2.83 AZL 81.48 HCA 188.23 SMA 128.44 ECC .15375 INC 8.5160 V1 30.273
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.495 GAP -1.02 AZP 98.43 TAL 164.10 TAP 352.33 RCA 108.69 APO 148.19 V2 34.824
 RC 80.651 GL 51.89 GP -52.55 ZAL 73.48 ZAP 79.36 ETS 17.91 ZAE 126.32 ETE 276.64 ZAC 119.13 ETC 199.07 CLP -72.32

PLANETOCENTRIC CONIC

C3 27.220 VHL 5.217 DLA 56.30 RAL 353.88 RAD 6568.1 VEL 12.190 PTH 2.19 VHP 4.328 OPA -40.24 RAP 48.65 ECC 1.4480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.07 18 20 27 4422.83 -32.32 214.96 238.94 41.04 19 34 10 3822.8 -38.18 208.70
 140.93 3 34 17 2800.28 -32.31 83.88 238.92 41.03 4 20 57 2200.3 -38.17 77.62
 39.07 18 20 27 4422.83 -32.32 214.96 238.94 41.04 19 34 10 3822.8 -38.18 208.70
 140.93 3 34 17 2800.28 -32.31 83.88 238.92 41.03 4 20 57 2200.3 -38.17 77.62
 39.07 18 20 27 4422.83 -32.32 214.96 238.94 41.04 19 34 10 3822.8 -38.18 208.70
 140.93 3 34 17 2800.28 -32.31 83.88 238.92 41.03 4 20 57 2200.3 -38.17 77.62

DIFFERENTIAL CORRECTIONS

TOE .0111 TRA -5123 TC3 -.1054 BAU .3548
 ROE 3.2331 RRA .3806 RC3 -.9693 FAU .07853
 FOE 7.6273 FRA 1.0471 FC3-2.4976 BSP 11882
 BOE 3.2332 BRA .4924 BC3 .9750 FSP -2516

MID-COURSE EXECUTION ACCURACY

SGT 628.0 SGR 3767.9 SG3 778.8
 RRT -.1316 RRF .9993 RTF -.1577
 SGB 3819.9 R23 .0228 R13 .9993
 SG1 3768.8 SG2 622.4 THA 91.29

ORBIT DETERMINATION ACCURACY

ST 185.9 SR 3557.9 SS 3141.3
 CRT .0021 CRS -.9999 CST .0084
 LSA 4746.1 MSA 187.4 SSA 7.3
 EL1 3557.9 EL2 185.9 ALF 89.99

LAUNCH DATE DEC 21 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.763 GAL 2.84 AZL 82.95 HCA 191.38 SMA 128.50 ECC .15332 INC 7.0456 V1 30.273
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.494 GAP -.62 AZP 96.91 TAL 163.99 TAP 355.37 RCA 108.80 APO 148.20 V2 34.816
 RC 82.981 GL 47.37 GP -43.28 ZAL 71.20 ZAP 81.72 ETS 10.72 ZAE 135.81 ETE 269.61 ZAC 118.94 ETC 190.60 CLP -78.59

PLANETOCENTRIC CONIC

C3 21.368 VHL 4.623 DLA 53.12 RAL 359.54 RAD 6567.9 VEL 11.948 PTH 2.13 VHP 3.634 OPA -33.22 RAP 40.64 ECC 1.3517
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.98 18 54 10 4339.86 -33.77 207.36 239.44 46.22 20 6 30 3739.9 -39.09 200.34
 137.02 3 45 46 2764.62 -33.76 81.65 239.43 46.21 4 31 51 2164.6 -39.08 74.63
 42.98 18 54 10 4339.86 -33.77 207.36 239.44 46.22 20 6 30 3739.9 -39.09 200.34
 137.02 3 45 46 2764.62 -33.76 81.65 239.43 46.21 4 31 51 2164.6 -39.08 74.63
 42.98 18 54 10 4339.86 -33.77 207.36 239.44 46.22 20 6 30 3739.9 -39.09 200.34
 137.02 3 45 46 2764.62 -33.76 81.65 239.43 46.21 4 31 51 2164.6 -39.08 74.63

DIFFERENTIAL CORRECTIONS

TOE .4010 TRA -.2191 TC3 -.3245 BAU .3399
 ROE 2.4105 RRA .4860 RC3-1.1446 FAU .11461
 FOE 8.9085 FRA 2.0042 FC3-4.6435 BSP 10464
 BOE 2.4437 BRA .5331 BC3 1.1897 FSP -3496

MID-COURSE EXECUTION ACCURACY

SGT 736.1 SGR 3324.8 SG3 1084.3
 RRT .5510 RRF .9991 RTF .5309
 SGB 3405.3 R23 .0465 R13 .9983
 SG1 3350.3 SG2 609.6 THA 82.81

ORBIT DETERMINATION ACCURACY

ST 515.4 SR 3003.1 SS 3488.7
 CRT .9334 CRS -.9999 CST -.9292
 LSA 4628.1 MSA 188.9 SSA 2.8
 EL1 3041.6 EL2 182.6 ALF 80.87

LAUNCH DATE DEC 21 1968

FLIGHT TIME 162.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.769 GAL 2.86 AZL 83.79 HCA 194.55 SMA 128.54 ECC .15311 INC 6.2080 V1 30.273
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.493 GAP -.22 AZP 96.01 TAL 163.82 TAP 358.37 RCA 108.86 APO 148.22 V2 34.810
 RC 85.328 GL 44.14 GP -36.52 ZAL 69.61 ZAP 85.62 ETS 5.62 ZAE 142.33 ETE 261.51 ZAC 117.39 ETC 184.63 CLP -84.55

PLANETOCENTRIC CONIC

C3 18.545 VHL 4.306 DLA 50.72 RAL 3.13 RAD 6567.8 VEL 11.829 PTH 2.10 VHP 3.289 OPA -28.26 RAP 34.75 ECC 1.3052
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.98 19 17 39 4285.31 -34.04 201.87 239.60 49.82 20 29 5 3685.3 -38.96 194.42
 134.02 3 50 54 2751.79 -34.03 80.58 239.59 49.81 4 36 46 2151.8 -38.95 73.14
 45.98 19 17 39 4285.31 -34.04 201.87 239.60 49.82 20 29 5 3685.3 -38.96 194.42
 134.02 3 50 54 2751.79 -34.03 80.58 239.59 49.81 4 36 46 2151.8 -38.95 73.14
 45.98 19 17 39 4285.31 -34.04 201.87 239.60 49.82 20 29 5 3685.3 -38.96 194.42
 134.02 3 50 54 2751.79 -34.03 80.58 239.59 49.81 4 36 46 2151.8 -38.95 73.14

DIFFERENTIAL CORRECTIONS

TOE .6840 TRA -.1067 TC3 -.5924 BAU .3264
 ROE 1.8982 RRA .5049 RC3-1.1757 FAU .14138
 FOE 9.5615 FRA 2.8307 FC3-6.5998 BSP 9370
 BOE 2.0177 BRA .5160 BC3 1.3165 FSP -4234

MID-COURSE EXECUTION ACCURACY

SGT 1067.1 SGR 2920.5 SG3 1309.0
 RRT .8269 RRF .9988 RTF .8129
 SGB 3109.3 R23 .0819 R13 .9958
 SG1 3056.0 SG2 573.5 THA 72.55

ORBIT DETERMINATION ACCURACY

ST 912.6 SR 2545.7 SS 3651.2
 CRT .9802 CRS -.9999 CST -.9774
 LSA 4539.8 MSA 187.6 SSA 3.3
 EL1 2698.9 EL2 170.3 ALF 70.56

LAUNCH DATE DEC 21 1968

FLIGHT TIME 164.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.773 GAL 2.90 AZL 84.34 HCA 197.71 SMA 128.56 ECC .15311 INC 5.6647 V1 30.273
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.490 GAP -.18 AZP 95.40 TAL 163.62 TAP 1.32 RCA 108.88 APO 148.25 V2 34.804
 RC 87.691 GL 41.70 GP -31.37 ZAL 68.36 ZAP 90.32 ETS 1.86 ZAE 146.57 ETE 252.01 ZAC 115.20 ETC 180.28 CLP -90.38

PLANETOCENTRIC CONIC

C3 16.938 VHL 4.116 DLA 48.89 RAL 5.70 RAD 6567.7 VEL 11.761 PTH 2.08 VHP 3.105 OPA -24.68 RAP 29.94 ECC 1.2788
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.32 19 35 31 4246.17 -33.90 197.76 239.82 52.39 20 46 17 3646.2 -38.52 190.08
 131.68 3 53 34 2748.79 -33.89 80.14 239.80 52.38 4 39 23 2148.8 -38.51 72.46
 48.32 19 35 31 4246.17 -33.90 197.76 239.82 52.39 20 46 17 3646.2 -38.52 190.08
 131.68 3 53 34 2748.79 -33.89 80.14 239.80 52.38 4 39 23 2148.8 -38.51 72.46
 48.32 19 35 31 4246.17 -33.90 197.76 239.82 52.39 20 46 17 3646.2 -38.52 190.08
 131.68 3 53 34 2748.79 -33.89 80.14 239.80 52.38 4 39 23 2148.8 -38.51 72.46

DIFFERENTIAL CORRECTIONS

TOE .9228 TRA .0154 TC3 -.8916 BAU .3260
 ROE 1.5442 RRA .4879 RC3-1.1306 FAU .15976
 FOE 9.7734 FRA 3.4787 FC3-8.1654 BSP 8727
 BOE 1.7989 BRA .4881 BC3 1.4398 FSP -4753

MID-COURSE EXECUTION ACCURACY

SGT 1479.8 SGR 2560.2 SG3 1457.4
 RRT .9181 RRF .9983 RTF .9074
 SGB 2957.1 R23 .1202 R13 .9913
 SG1 2911.8 SG2 515.8 THA 61.05

ORBIT DETERMINATION ACCURACY

ST 1284.9 SR 2172.1 SS 3698.0
 CRT .9908 CRS -.9998 CST -.9883
 LSA 4473.2 MSA 185.7 SSA 4.0
 EL1 2519.2 EL2 149.8 ALF 59.51

LAUNCH DATE DEC 21 1968

FLIGHT TIME 166.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.774 GAL 2.95 AZL 84.72 HCA 200.87 SMA 128.57 ECC .15332 INC 5.2820 V1 30.273
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.486 GAP .56 AZP 94.94 TAL 163.36 TAP 4.23 RCA 108.86 APO 148.28 V2 34.799
 RC 90.065 GL 39.76 GP -27.29 ZAL 67.29 ZAP 95.38 ETS 359.03 ZAE 148.91 ETE 241.60 ZAC 112.78 ETC 177.04 CLP -96.06

PLANETOCENTRIC CONIC

C3 15.939 VHL 3.992 DLA 47.45 RAL 7.74 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 3.010 OPA -22.00 RAP 25.81 ECC 1.2623
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.19 19 50 2 4216.62 -33.60 194.60 240.17 54.29 21 0 19 3616.6 -38.00 186.77
 129.81 3 55 20 2750.54 -33.59 80.04 240.16 54.28 4 41 11 2150.5 -37.99 72.22
 50.19 19 50 2 4216.62 -33.60 194.60 240.17 54.29 21 0 19 3616.6 -38.00 186.77
 129.81 3 55 20 2750.54 -33.59 80.04 240.16 54.28 4 41 11 2150.5 -37.99 72.22
 50.19 19 50 2 4216.62 -33.60 194.60 240.17 54.29 21 0 19 3616.6 -38.00 186.77
 129.81 3 55 20 2750.54 -33.59 80.04 240.16 54.28 4 41 11 2150.5 -37.99 72.22

DIFFERENTIAL CORRECTIONS

TDE 1.1338 TRA .1426 TC3-1.2079 BAU .3405
 RDE 1.2817 RRA .4552 RC3-1.0461 FAU .17118
 FDE 9.6671 FRA 3.9506 FC3-9.2976 BSP 8584
 BDE 1.7112 BRA .4770 BC3 1.5979 FSP -5093

DISTANCE 453.108

SGT 1915.5 SGR 2239.2 SG3 1540.4
 RRT .9537 RRF .9974 RTF .9449
 SGB 2946.7 R23 .1484 R13 .9865
 SG1 2913.3 SG2 442.7 THA 49.67

ORBIT DETERMINATION ACCURACY

ST 1629.9 SR 1862.2 SS 3666.8
 CRT .9949 CRS -.9997 CST -.9924
 LSA 4419.9 MSA 183.9 SSA 4.6
 EL1 2471.7 EL2 123.3 ALF 48.83

LAUNCH DATE DEC 21 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.773 GAL 3.01 AZL 85.00 HCA 204.03 SMA 128.56 ECC .15372 INC 4.9961 V1 30.273
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.481 GAP .94 AZP 94.56 TAL 163.06 TAP 7.09 RCA 108.80 APO 148.33 V2 34.795
 RC 92.449 GL 38.15 GP -23.95 ZAL 66.32 ZAP 100.54 ETS 356.89 ZAE 149.70 ETE 231.21 ZAC 110.35 ETC 174.61 CLP -101.54

PLANETOCENTRIC CONIC

C3 15.291 VHL 3.910 DLA 46.27 RAL 9.49 RAD 6567.6 VEL 11.691 PTH 2.06 VHP 2.973 OPA -19.93 RAP 22.22 ECC 1.2517
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.73 20 2 28 4193.45 -33.24 192.09 240.68 55.74 21 12 22 3593.5 -37.47 184.18
 128.27 3 56 50 2754.96 -33.23 80.16 240.67 55.73 4 42 45 2155.0 -37.46 72.25
 51.73 20 2 28 4193.45 -33.24 192.09 240.68 55.74 21 12 22 3593.5 -37.47 184.18
 128.27 3 56 50 2754.96 -33.23 80.16 240.67 55.73 4 42 45 2155.0 -37.46 72.25
 51.73 20 2 28 4193.45 -33.24 192.09 240.68 55.74 21 12 22 3593.5 -37.47 184.18
 128.27 3 56 50 2754.96 -33.23 80.16 240.67 55.73 4 42 45 2155.0 -37.46 72.25

DIFFERENTIAL CORRECTIONS

TDE 1.3238 TRA .2738 TC3-1.5255 BAU .3660
 RDE 1.0801 RRA .4170 RC3 -.9375 FAU .17617
 FDE 9.3493 FRA 4.2779 FC3-9.9740 BSP 8843
 BDE 1.7085 BRA .4989 BC3 1.7905 FSP -5245

DISTANCE 459.369

SGT 2350.0 SGR 1955.4 SG3 1571.3
 RRT .9700 RRF .9959 RTF .9626
 SGB 3057.1 R23 .1582 R13 .9833
 SG1 3034.9 SG2 367.9 THA 39.61

ORBIT DETERMINATION ACCURACY

ST 1947.7 SR 1604.8 SS 3587.8
 CRT .9971 CRS -.9995 CST -.9943
 LSA 4382.7 MSA 182.3 SSA 5.3
 EL1 2521.9 EL2 94.9 ALF 39.47

LAUNCH DATE DEC 21 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.770 GAL 3.08 AZL 85.23 HCA 207.19 SMA 128.54 ECC .15432 INC 4.7732 V1 30.273
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.476 GAP 1.32 AZP 94.25 TAL 162.71 TAP 9.90 RCA 108.71 APO 148.38 V2 34.791
 RC 94.840 GL 36.75 GP -21.16 ZAL 65.40 ZAP 105.63 ETS 355.25 ZAE 149.31 ETE 221.74 ZAC 108.06 ETC 172.78 CLP -106.79

PLANETOCENTRIC CONIC

C3 14.871 VHL 3.856 DLA 45.30 RAL 11.07 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 2.978 OPA -18.26 RAP 19.10 ECC 1.2447
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.04 20 13 35 4174.88 -32.86 190.05 241.35 56.87 21 23 10 3574.9 -36.96 182.08
 126.96 3 58 21 2761.03 -32.85 80.43 241.34 56.86 4 44 22 2161.0 -36.95 72.46
 53.04 20 13 35 4174.88 -32.86 190.05 241.35 56.87 21 23 10 3574.9 -36.96 182.08
 126.96 3 58 21 2761.03 -32.85 80.43 241.34 56.86 4 44 22 2161.0 -36.95 72.46
 53.04 20 13 35 4174.88 -32.86 190.05 241.35 56.87 21 23 10 3574.9 -36.96 182.08
 126.96 3 58 21 2761.03 -32.85 80.43 241.34 56.86 4 44 22 2161.0 -36.95 72.46

DIFFERENTIAL CORRECTIONS

TDE 1.4939 TRA .4069 TC3-1.8336 BAU .3993
 RDE .9208 RRA .3769 RC3 -.8192 FAU .17608
 FDE 8.8849 FRA 4.4758 FC-10.2510 BSP 9437
 BDE 1.7549 BRA .5546 BC3 2.0083 FSP -5262

DISTANCE 465.610

SGT 2768.6 SGR 1704.3 SG3 1560.4
 RRT .9779 RRF .9936 RTF .9721
 SGB 3251.2 R23 .1494 R13 .9823
 SG1 3236.8 SG2 304.6 THA 31.36

ORBIT DETERMINATION ACCURACY

ST 2235.0 SR 1389.0 SS 3475.1
 CRT .9984 CRS -.9992 CST -.9954
 LSA 4355.2 MSA 180.9 SSA 5.9
 EL1 2630.5 EL2 67.7 ALF 31.84

LAUNCH DATE DEC 21 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.765 GAL 3.17 AZL 85.41 HCA 210.35 SMA 128.51 ECC .15511 INC 4.5937 V1 30.273
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.469 GAP 1.69 AZP 93.97 TAL 162.31 TAP 12.66 RCA 108.58 APO 148.44 V2 34.788
 RC 97.236 GL 35.51 GP -18.79 ZAL 64.48 ZAP 110.54 ETS 354.01 ZAE 148.10 ETE 213.71 ZAC 106.01 ETC 171.40 CLP -111.75

PLANETOCENTRIC CONIC

C3 14.610 VHL 3.822 DLA 44.47 RAL 12.57 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 3.016 OPA -16.86 RAP 16.42 ECC 1.2404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.16 20 23 51 4159.77 -32.47 188.37 242.17 57.77 21 33 10 3559.8 -36.46 180.37
 125.84 4 0 2 2768.28 -32.46 80.79 242.16 57.76 4 46 10 2168.3 -36.45 72.80
 54.16 20 23 51 4159.77 -32.47 188.37 242.17 57.77 21 33 10 3559.8 -36.46 180.37
 125.84 4 0 2 2768.28 -32.46 80.79 242.16 57.76 4 46 10 2168.3 -36.45 72.80
 54.16 20 23 51 4159.77 -32.47 188.37 242.17 57.77 21 33 10 3559.8 -36.46 180.37
 125.84 4 0 2 2768.28 -32.46 80.79 242.16 57.76 4 46 10 2168.3 -36.45 72.80

DIFFERENTIAL CORRECTIONS

TDE 1.6468 TRA .5420 TC3-2.1205 BAU .4360
 RDE .7945 RRA .3383 RC3 -.6969 FAU .17148
 FDE 8.3431 FRA 4.5834 FC-10.1611 BSP 10203
 BDE 1.8285 BRA .6390 BC3 2.2321 FSP -5141

DISTANCE 471.832

SGT 3165.1 SGR 1485.7 SG3 1519.8
 RRT .9809 RRF .9901 RTF .9775
 SGB 3496.4 R23 .1262 R13 .9825
 SG1 3486.6 SG2 262.1 THA 24.87

ORBIT DETERMINATION ACCURACY

ST 2492.6 SR 1210.0 SS 3345.7
 CRT .9992 CRS -.9987 CST -.9960
 LSA 4340.3 MSA 179.9 SSA 6.6
 EL1 2770.4 EL2 43.7 ALF 25.88

LAUNCH DATE DEC 21 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 478.033

RL 147.17 LAL .00 LOL 89.20 VL 27.759 GAL 3.26 AZL 85.55 MCA 213.51 SMA 128.46 ECC .15609 INC 4.4452 V1 30.273
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.462 GAP 2.06 AZP 93.71 TAL 161.87 TAP 15.38 RCA 108.41 APO 148.52 V2 34.786
 RC 99.636 GL 34.38 GP -16.77 ZAL 63.55 ZAP 115.21 ETS 353.07 ZAE 146.42 ETE 207.19 ZAC 104.24 ETC 170.37 CLP-116.41

PLANETOCENTRIC CONIC

C3 14.472 VHL 3.804 OLA 43.74 RAL 14.03 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.081 OPA -15.65 RAP 14.17 ECC 1.2382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.16 20 33 32 4147.37 -32.07 186.95 243.13 58.50 21 42 40 3547.4 -35.98 178.93
 124.84 4 1 57 2776.45 -32.06 81.24 243.12 58.49 4 48 14 2176.5 -35.97 73.23
 55.16 20 33 32 4147.37 -32.07 186.95 243.13 58.50 21 42 40 3547.4 -35.98 178.93
 124.84 4 1 57 2776.45 -32.06 81.24 243.12 58.49 4 48 14 2176.5 -35.97 73.23
 55.16 20 33 32 4147.37 -32.07 186.95 243.13 58.50 21 42 40 3547.4 -35.98 178.93
 124.84 4 1 57 2776.45 -32.06 81.24 243.12 58.49 4 48 14 2176.5 -35.97 73.23

DIFFERENTIAL CORRECTIONS

TDE 1.7803 TRA .6755 TC3-2.3864 BAU .4753
 RDE .6920 RRA .3002 RC3 -.5838 FAU .16492
 FDE 7.7414 FRA 4.5926 FC3-9.8662 BSP 11127
 BDE 1.9101 BRA .7392 BC3 2.4567 FSP -4977

MID-COURSE EXECUTION ACCURACY

SGT 3531.2 SGR 1294.3 SG3 1455.9
 RRT .9807 RRF .9848 RTF .9810
 SGB 3760.9 R23 .0934 R13 .9834
 SG1 3753.4 SG2 237.9 THA 19.86

ORBIT DETERMINATION ACCURACY

ST 2715.0 SR 1059.1 SS 3196.8
 CRT .9997 CRS -.9980 CST -.9964
 LSA 4322.1 MSA 178.6 SSA 7.3
 EL1 2914.2 EL2 22.9 ALF 21.31

LAUNCH DATE DEC 21 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 484.214

RL 147.17 LAL .00 LOL 89.20 VL 27.750 GAL 3.38 AZL 85.68 MCA 216.67 SMA 128.41 ECC .15726 INC 4.3195 V1 30.273
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.455 GAP 2.43 AZP 93.47 TAL 161.38 TAP 18.05 RCA 108.21 APO 148.60 V2 34.784
 RC 102.038 GL 33.31 GP -15.03 ZAL 62.59 ZAP 119.60 ETS 352.37 ZAE 144.50 ETE 202.02 ZAC 102.78 ETC 169.61 CLP-120.76

PLANETOCENTRIC CONIC

C3 14.432 VHL 3.799 OLA 43.09 RAL 15.47 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 3.167 OPA -14.57 RAP 12.33 ECC 1.2375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.06 20 42 54 4137.12 -31.67 185.74 244.23 59.10 21 51 51 3537.1 -35.50 177.72
 123.94 4 4 7 2785.48 -31.65 81.76 244.22 59.09 4 50 32 2185.5 -35.49 73.75
 56.06 20 42 54 4137.12 -31.67 185.74 244.23 59.10 21 51 51 3537.1 -35.50 177.72
 123.94 4 4 7 2785.48 -31.65 81.76 244.22 59.09 4 50 32 2185.5 -35.49 73.75
 56.06 20 42 54 4137.12 -31.67 185.74 244.23 59.10 21 51 51 3537.1 -35.50 177.72
 123.94 4 4 7 2785.48 -31.65 81.76 244.22 59.09 4 50 32 2185.5 -35.49 73.75

DIFFERENTIAL CORRECTIONS

TDE 1.8984 TRA .8101 TC3-2.6211 BAU .5140
 RDE .6103 RRA .2654 RC3 -.4778 FAU .15621
 FDE 7.1346 FRA 4.5492 FC3-9.3708 BSP 12065
 BDE 1.9941 BRA .8524 BC3 2.6643 FSP -4746

MID-COURSE EXECUTION ACCURACY

SGT 3868.2 SGR 1131.1 SG3 1379.0
 RRT .9771 RRF .9770 RTF .9833
 SGB 4030.2 R23 .0600 R13 .9844
 SG1 4023.5 SG2 231.2 THA 16.00

ORBIT DETERMINATION ACCURACY

ST 2907.5 SR 935.1 SS 3044.1
 CRT 1.0000 CRS -.9968 CST -.9966
 LSA 4308.5 MSA 177.5 SSA 7.9
 EL1 3054.2 EL2 8.4 ALF 17.83

LAUNCH DATE DEC 21 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 490.375

RL 147.17 LAL .00 LOL 89.20 VL 27.741 GAL 3.50 AZL 85.79 MCA 219.83 SMA 128.34 ECC .15862 INC 4.2111 V1 30.273
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.447 GAP 2.79 AZP 93.24 TAL 160.84 TAP 20.68 RCA 107.99 APO 148.70 V2 34.783
 RC 104.441 GL 32.30 GP -13.53 ZAL 61.61 ZAP 123.71 ETS 351.85 ZAE 142.51 ETE 197.96 ZAC 101.64 ETC 169.05 CLP-124.81

PLANETOCENTRIC CONIC

C3 14.477 VHL 3.805 OLA 42.50 RAL 16.92 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.271 OPA -13.58 RAP 10.87 ECC 1.2383
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.88 20 52 5 4128.64 -31.25 184.70 245.46 59.60 22 0 53 3528.6 -35.03 176.69
 123.12 4 6 30 2795.33 -31.24 82.35 245.45 59.58 4 53 6 2195.3 -35.02 74.34
 56.88 20 52 5 4128.64 -31.25 184.70 245.46 59.60 22 0 53 3528.6 -35.03 176.69
 123.12 4 6 30 2795.33 -31.24 82.35 245.45 59.58 4 53 6 2195.3 -35.02 74.34
 56.88 20 52 5 4128.64 -31.25 184.70 245.46 59.60 22 0 53 3528.6 -35.03 176.69
 123.12 4 6 30 2795.33 -31.24 82.35 245.45 59.58 4 53 6 2195.3 -35.02 74.34

DIFFERENTIAL CORRECTIONS

TDE 2.0021 TRA .9452 TC3-2.8239 BAU .5515
 RDE .5453 RRA .2337 RC3 -.3823 FAU .14641
 FDE 6.5413 FRA 4.4644 FC3-8.7555 BSP 12993
 BDE 2.0750 BRA .9737 BC3 2.8496 FSP -4485

MID-COURSE EXECUTION ACCURACY

SGT 4175.4 SGR 993.4 SG3 1294.7
 RRT .9698 RRF .9659 RTF .9848
 SGB 4291.9 R23 .0323 R13 .9853
 SG1 4285.4 SG2 236.2 THA 13.03

ORBIT DETERMINATION ACCURACY

ST 3070.7 SR 833.7 SS 2890.0
 CRT .9998 CRS -.9951 CST -.9967
 LSA 4294.7 MSA 176.5 SSA 8.6
 EL1 3181.8 EL2 16.2 ALF 15.19

LAUNCH DATE DEC 21 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 496.516

RL 147.17 LAL .00 LOL 89.20 VL 27.730 GAL 3.64 AZL 85.88 MCA 222.99 SMA 128.27 ECC .16017 INC 4.1163 V1 30.273
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.439 GAP 3.16 AZP 93.01 TAL 160.27 TAP 23.26 RCA 107.72 APO 148.81 V2 34.783
 RC 106.844 GL 31.33 GP -12.23 ZAL 60.59 ZAP 127.52 ETS 351.46 ZAE 140.55 ETE 194.77 ZAC 100.80 ETC 168.65 CLP-128.55

PLANETOCENTRIC CONIC

C3 14.598 VHL 3.821 OLA 41.95 RAL 18.39 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 3.391 OPA -12.64 RAP 9.78 ECC 1.2402
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.66 21 1 11 4121.64 -30.83 183.80 246.80 60.01 22 9 52 3521.6 -34.55 175.80
 122.34 4 9 7 2806.03 -30.81 82.99 246.79 60.00 4 55 53 2206.0 -34.54 75.00
 57.66 21 1 11 4121.64 -30.83 183.80 246.80 60.01 22 9 52 3521.6 -34.55 175.80
 122.34 4 9 7 2806.03 -30.81 82.99 246.79 60.00 4 55 53 2206.0 -34.54 75.00
 57.66 21 1 11 4121.64 -30.83 183.80 246.80 60.01 22 9 52 3521.6 -34.55 175.80
 122.34 4 9 7 2806.03 -30.81 82.99 246.79 60.00 4 55 53 2206.0 -34.54 75.00

DIFFERENTIAL CORRECTIONS

TDE 2.0920 TRA 1.0813 TC3-2.9954 BAU .5875
 RDE .4939 RRA .2053 RC3 -.2988 FAU .13630
 FDE 5.9737 FRA 4.3533 FC3-8.0833 BSP 13499
 BDE 2.1496 BRA 1.1006 BC3 3.0103 FSP -4216

MID-COURSE EXECUTION ACCURACY

SGT 4453.6 SGR 878.7 SG3 1207.9
 RRT .9580 RRF .9507 RTF .9858
 SGB 4539.4 R23 .0119 R13 .9860
 SG1 4532.7 SG2 247.7 THA 10.74

ORBIT DETERMINATION ACCURACY

ST 3205.5 SR 751.1 SS 2736.5
 CRT .9991 CRS -.9928 CST -.9968
 LSA 4277.4 MSA 175.7 SSA 9.2
 EL1 3292.1 EL2 30.2 ALF 13.18

LAUNCH DATE DEC 21 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.718 GAL 3.80 AZL 85.97 HCA 226.15 SMA 128.19 ECC .16191 INC 4.0320 V1 30.273
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.431 GAP 3.52 AZP 92.80 TAL 159.65 TAP 25.81 RCA 107.43 APO 148.94 V2 34.784
 RC 109.246 GL 30.38 GP -11.10 ZAL 59.54 ZAP 131.06 ETS 351.17 ZAE 138.69 ETE 192.24 ZAC 100.27 ETC 168.37 CLP-132.02

DISTANCE 502.636

PLANETOCENTRIC CONIC
 C3 14.790 VHL 3.846 CLA 41.43 RAL 19.88 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 3.525 DPA -11.75 RAP 9.01 ECC 1.2434
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.39 21 10 17 4115.88 -30.38 183.00 248.27 60.36 22 18 52 3515.9 -34.07 175.02
 121.61 4 11 54 2817.63 -30.37 83.71 248.26 60.34 4 58 52 2217.6 -34.06 75.73
 58.39 21 10 17 4115.88 -30.38 183.00 248.27 60.36 22 18 52 3515.9 -34.07 175.02
 121.61 4 11 54 2817.63 -30.37 83.71 248.26 60.34 4 58 52 2217.6 -34.06 75.73
 58.39 21 10 17 4115.88 -30.38 183.00 248.27 60.36 22 18 52 3515.9 -34.07 175.02
 121.61 4 11 54 2817.63 -30.37 83.71 248.26 60.34 4 58 52 2217.6 -34.06 75.73

MID-COURSE EXECUTION ACCURACY
 SGT 4709.4 SGR 786.2 SG3 1123.2
 RRT .9408 RRF .9308 RTF .9864
 SGB 4774.6 R23 -.0004 R13 .9864
 SG1 4767.3 SG2 263.3 THA 8.95

ORBIT DETERMINATION ACCURACY
 ST 3321.8 SR 686.2 SS 2594.8
 CRT .9979 CRS -.9896 CST -.9968
 LSA 4267.0 MSA 175.4 SSA 9.8
 EL1 3391.7 EL2 43.7 ALF 11.65

DIFFERENTIAL CORRECTIONS
 TOE 2.1748 TRA 1.2228 TC3-3.1249 BAU .6195
 RDE .4548 RRA .1809 RC3 -.2241 FAU .12536
 FDE 5.4596 FRA 4.2405 FC3-7.3379 BSP 14673
 BOE 2.2219 BRA 1.2361 BC3 3.1329 FSP -3913

LAUNCH DATE DEC 21 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.705 GAL 3.97 AZL 86.04 HCA 229.32 SMA 128.09 ECC .16385 INC 3.9562 V1 30.273
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.422 GAP 3.88 AZP 92.58 TAL 158.99 TAP 28.31 RCA 107.11 APO 149.08 V2 34.785
 RC 111.645 GL 29.44 GP -10.12 ZAL 58.45 ZAP 134.34 ETS 350.96 ZAE 136.95 ETE 190.23 ZAC 100.00 ETC 168.19 CLP-135.23

DISTANCE 508.736

PLANETOCENTRIC CONIC
 C3 15.053 VHL 3.880 CLA 40.94 RAL 21.39 RAD 6567.6 VEL 11.681 PTH 2.05 VHP 3.671 DPA -10.88 RAP 8.54 ECC 1.2477
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.11 21 19 26 4111.18 -29.92 182.30 249.83 60.65 22 27 57 3511.2 -33.58 174.34
 120.89 4 14 50 2830.18 -29.91 84.49 249.83 60.64 5 2 0 2230.2 -33.57 76.54
 59.11 21 19 26 4111.18 -29.92 182.30 249.83 60.65 22 27 57 3511.2 -33.58 174.34
 120.89 4 14 50 2830.18 -29.91 84.49 249.83 60.64 5 2 0 2230.2 -33.57 76.54
 59.11 21 19 26 4111.18 -29.92 182.30 249.83 60.65 22 27 57 3511.2 -33.58 174.34
 120.89 4 14 50 2830.18 -29.91 84.49 249.83 60.64 5 2 0 2230.2 -33.57 76.54

MID-COURSE EXECUTION ACCURACY
 SGT 4937.5 SGR 710.9 SG3 1040.4
 RRT .9181 RRF .9054 RTF .9869
 SGB 4988.4 R23 -.0090 R13 .9868
 SG1 4980.6 SG2 279.3 THA 7.55

ORBIT DETERMINATION ACCURACY
 ST 3410.5 SR 633.7 SS 2452.9
 CRT .9959 CRS -.9856 CST -.9968
 LSA 4244.9 MSA 175.3 SSA 10.4
 EL1 3468.4 EL2 56.5 ALF 10.49

DIFFERENTIAL CORRECTIONS
 TOE 2.2444 TRA 1.3643 TC3-3.2297 BAU .6508
 RDE .4244 RRA .1589 RC3 -.1628 FAU .11534
 FDE 4.9747 FRA 4.1091 FC3-6.6338 BSP 15462
 BOE 2.2842 BRA 1.3735 BC3 3.2338 FSP -3645

LAUNCH DATE DEC 21 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.690 GAL 4.15 AZL 86.11 HCA 232.48 SMA 128.00 ECC .16599 INC 3.8873 V1 30.273
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.413 GAP 4.25 AZP 92.37 TAL 158.30 TAP 30.78 RCA 106.75 APO 149.24 V2 34.787
 RC 114.042 GL 28.51 GP -9.27 ZAL 57.32 ZAP 137.38 ETS 350.81 ZAE 135.35 ETE 188.61 ZAC 99.99 ETC 168.07 CLP-138.21

DISTANCE 514.814

PLANETOCENTRIC CONIC
 C3 15.384 VHL 3.922 CLA 40.46 RAL 22.93 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 3.828 DPA -10.03 RAP 8.35 ECC 1.2532
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.81 21 28 40 4107.44 -29.44 181.67 251.50 60.90 22 37 8 3507.4 -33.07 173.74
 120.19 4 17 53 2843.71 -29.43 85.34 251.50 60.88 5 5 17 2243.7 -33.06 77.42
 59.81 21 28 40 4107.44 -29.44 181.67 251.50 60.90 22 37 8 3507.4 -33.07 173.74
 120.19 4 17 53 2843.71 -29.43 85.34 251.50 60.88 5 5 17 2243.7 -33.06 77.42
 59.81 21 28 40 4107.44 -29.44 181.67 251.50 60.90 22 37 8 3507.4 -33.07 173.74
 120.19 4 17 53 2843.71 -29.43 85.34 251.50 60.88 5 5 17 2243.7 -33.06 77.42

MID-COURSE EXECUTION ACCURACY
 SGT 5143.9 SGR 651.5 SG3 961.9
 RRT .8899 RRF .8750 RTF .9871
 SGB 5185.0 R23 -.0140 R13 .9871
 SG1 5176.6 SG2 295.3 THA 6.45

ORBIT DETERMINATION ACCURACY
 ST 3479.2 SR 592.6 SS 2317.9
 CRT .9931 CRS -.9806 CST -.9968
 LSA 4218.7 MSA 175.6 SSA 10.9
 EL1 3528.6 EL2 68.6 ALF 9.60

DIFFERENTIAL CORRECTIONS
 TOE 2.3055 TRA 1.5099 TC3-3.3033 BAU .6798
 RDE .4019 RRA .1399 RC3 -.1115 FAU .10572
 FDE 4.5330 FRA 3.9781 FC3-5.9494 BSP 16193
 BOE 2.3403 BRA 1.5163 BC3 3.3052 FSP -3387

LAUNCH DATE DEC 21 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.675 GAL 4.35 AZL 86.18 HCA 235.64 SMA 127.89 ECC .16833 INC 3.8240 V1 30.273
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.404 GAP 4.62 AZP 92.16 TAL 157.57 TAP 33.21 RCA 106.36 APO 149.42 V2 34.790
 RC 116.435 GL 27.59 GP -8.52 ZAL 56.16 ZAP 140.20 ETS 350.68 ZAE 133.88 ETE 187.30 ZAC 100.21 ETC 168.01 CLP-140.97

DISTANCE 520.870

PLANETOCENTRIC CONIC
 C3 15.788 VHL 3.973 CLA 39.99 RAL 24.50 RAD 6567.6 VEL 11.712 PTH 2.06 VHP 3.995 DPA -9.18 RAP 8.39 ECC 1.2598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.50 21 38 3 4104.46 -28.94 181.09 253.27 61.10 22 46 28 3504.5 -32.55 173.20
 119.50 4 20 59 2858.39 -28.93 86.27 253.26 61.09 5 8 38 2258.4 -32.54 78.38
 60.50 21 38 3 4104.46 -28.94 181.09 253.27 61.10 22 46 28 3504.5 -32.55 173.20
 119.50 4 20 59 2858.39 -28.93 86.27 253.26 61.09 5 8 38 2258.4 -32.54 78.38
 60.50 21 38 3 4104.46 -28.94 181.09 253.27 61.10 22 46 28 3504.5 -32.55 173.20
 119.50 4 20 59 2858.39 -28.93 86.27 253.26 61.09 5 8 38 2258.4 -32.54 78.38

MID-COURSE EXECUTION ACCURACY
 SGT 5330.7 SGR 605.7 SG3 888.5
 RRT .8570 RRF .8404 RTF .9873
 SGB 5365.0 R23 -.0167 R13 .9872
 SG1 5356.0 SG2 310.7 THA 5.58

ORBIT DETERMINATION ACCURACY
 ST 3529.9 SR 560.9 SS 2190.1
 CRT .9894 CRS -.9746 CST -.9967
 LSA 4188.1 MSA 176.4 SSA 11.4
 EL1 3573.3 EL2 80.3 ALF 8.94

DIFFERENTIAL CORRECTIONS
 TOE 2.3594 TRA 1.6606 TC3-3.3471 BAU .7066
 RDE .3859 RRA .1236 RC3 -.0694 FAU .09663
 FDE 4.1328 FRA 3.8504 FC3-5.2989 BSP 16864
 BOE 2.3907 BRA 1.6652 BC3 3.3478 FSP -3143

LAUNCH DATE DEC 21 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.658 GAL 4.56 AZL 86.23 MCA 238.80 SMA 127.78 ECC .17090 INC 3.7653 V1 30.273
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.396 GAP 4.99 AZP 91.95 TAL 156.81 TAP 35.61 RCA 105.94 APO 149.62 V2 34.794
 RC 118.823 GL 26.67 GP -7.86 ZAL 54.97 ZAP 142.82 ETS 350.58 ZAE 132.55 ETE 186.24 ZAC 100.63 ETC 167.98 CLP-143.54

PLANETOCENTRIC CONIC
 C3 16.266 VHL 4.033 OLA 39.52 RAL 26.08 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 4.172 DPA -8.34 RAP 8.65 ECC 1.2677
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.19 21 47 36 4102.13 -28.41 180.57 255.13 61.28 22 55 58 3502.1 -32.01 172.71
 118.81 4 24 6 2874.27 -28.40 87.28 255.12 61.27 5 12 0 2274.3 -31.99 79.42
 61.19 21 47 36 4102.13 -28.41 180.57 255.13 61.28 22 55 58 3502.1 -32.01 172.71
 118.81 4 24 6 2874.27 -28.40 87.28 255.12 61.27 5 12 0 2274.3 -31.99 79.42
 61.19 21 47 36 4102.13 -28.41 180.57 255.13 61.28 22 55 58 3502.1 -32.01 172.71
 118.81 4 24 6 2874.27 -28.40 87.28 255.12 61.27 5 12 0 2274.3 -31.99 79.42

DIFFERENTIAL CORRECTIONS
 TDE 2.4069 TRA 1.8174 TC3-3.3629 BAU .7313 SGT 5500.2 SGR 571.2 SG3 820.7 ST 3564.6 SR 536.8 SS 2070.0
 RDE .3754 RRA .1100 RC3 -.0354 FAU .08810 RRT .8208 RRF .8031 RTF .9873 CRT .9850 CRS -.9678 CST -.9967
 FDE 3.7725 FRA 3.7304 FC3-4.6892 BSP 17479 SGB 5529.8 R23 -.0177 R13 .9872 LSA 4153.0 MSA 177.9 SSA 11.9
 BOE 2.4360 BRA 1.8207 BC3 3.3631 FSP -2913 SG1 5520.2 SG2 325.1 THA 4.89 EL1 3603.6 EL2 91.7 ALF 8.44

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.641 GAL 4.80 AZL 86.29 MCA 241.96 SMA 127.66 ECC .17369 INC 3.7103 V1 30.273
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.387 GAP 5.37 AZP 91.75 TAL 156.02 TAP 37.98 RCA 105.49 APO 149.84 V2 34.798
 RC 121.206 GL 25.76 GP -7.28 ZAL 53.75 ZAP 145.26 ETS 350.49 ZAE 131.35 ETE 185.37 ZAC 101.24 ETC 167.98 CLP-145.94

PLANETOCENTRIC CONIC
 C3 16.824 VHL 4.102 OLA 39.06 RAL 27.69 RAD 6567.7 VEL 11.756 PTH 2.08 VHP 4.358 DPA -7.50 RAP 9.11 ECC 1.2769
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.89 21 57 18 4100.45 -27.86 180.08 257.07 61.43 23 5 38 3500.4 -31.44 172.26
 118.11 4 27 12 2891.39 -27.85 88.37 257.06 61.42 5 15 23 2291.4 -31.43 80.55
 61.89 21 57 18 4100.45 -27.86 180.08 257.07 61.43 23 5 38 3500.4 -31.44 172.26
 118.11 4 27 12 2891.39 -27.85 88.37 257.06 61.42 5 15 23 2291.4 -31.43 80.55
 61.89 21 57 18 4100.45 -27.86 180.08 257.07 61.43 23 5 38 3500.4 -31.44 172.26
 118.11 4 27 12 2891.39 -27.85 88.37 257.06 61.42 5 15 23 2291.4 -31.43 80.55

DIFFERENTIAL CORRECTIONS
 TDE 2.4515 TRA 1.9836 TC3-3.3462 BAU .7526 SGT 5656.5 SGR 546.3 SG3 758.7 ST 3588.9 SR 519.2 SS 1960.0
 RDE .3697 RRA .0989 RC3 -.0079 FAU .07989 RRT .7835 RRF .7656 RTF .9871 CRT .9798 CRS -.9603 CST -.9966
 FDE 3.4533 FRA 3.6222 FC3-4.1111 BSP 17975 SGB 5682.8 R23 -.0171 R13 .9871 LSA 4118.1 MSA 180.0 SSA 12.3
 BOE 2.4793 BRA 1.9860 BC3 3.3462 FSP -2686 SG1 5672.7 SG2 338.4 THA 4.34 EL1 3624.8 EL2 102.8 ALF 8.07

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.623 GAL 5.05 AZL 86.34 MCA 245.13 SMA 127.54 ECC .17672 INC 3.6585 V1 30.273
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.378 GAP 5.75 AZP 91.54 TAL 155.20 TAP 40.32 RCA 105.00 APO 150.08 V2 34.803
 RC 123.581 GL 24.84 GP -6.77 ZAL 52.51 ZAP 147.55 ETS 350.40 ZAE 130.26 ETE 184.65 ZAC 102.01 ETC 168.00 CLP-148.18

PLANETOCENTRIC CONIC
 C3 17.467 VHL 4.179 OLA 38.60 RAL 29.31 RAD 6567.7 VEL 11.783 PTH 2.08 VHP 4.552 DPA -6.66 RAP 9.73 ECC 1.2875
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.60 22 7 10 4099.29 -27.28 179.63 259.08 61.56 23 15 29 3499.3 -30.84 171.85
 117.40 4 30 14 2909.87 -27.26 89.55 259.08 61.55 5 18 44 2309.9 -30.83 81.77
 62.60 22 7 10 4099.29 -27.28 179.63 259.08 61.56 23 15 29 3499.3 -30.84 171.85
 117.40 4 30 14 2909.87 -27.26 89.55 259.08 61.55 5 18 44 2309.9 -30.83 81.77
 62.60 22 7 10 4099.29 -27.28 179.63 259.08 61.56 23 15 29 3499.3 -30.84 171.85
 117.40 4 30 14 2909.87 -27.26 89.55 259.08 61.55 5 18 44 2309.9 -30.83 81.77

DIFFERENTIAL CORRECTIONS
 TDE 2.4879 TRA 2.1541 TC3-3.3136 BAU .7738 SGT 5794.9 SGR 527.9 SG3 701.0 ST 3595.1 SR 506.0 SS 1852.9
 RDE .3675 RRA .0897 RC3 .0124 FAU .07266 RRT .7466 RRF .7286 RTF .9870 CRT .9740 CRS -.9521 CST -.9966
 FDE 3.1596 FRA 3.5146 FC3-3.6014 BSP 18507 SGB 5818.9 R23 -.0165 R13 .9869 LSA 4071.9 MSA 182.6 SSA 12.6
 BOE 2.5149 BRA 2.1559 BC3 3.3136 FSP -2493 SG1 5808.3 SG2 350.4 THA 3.90 EL1 3628.8 EL2 113.6 ALF 7.81

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.605 GAL 5.31 AZL 86.39 MCA 248.29 SMA 127.41 ECC .18001 INC 3.6093 V1 30.273
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.369 GAP 6.15 AZP 91.34 TAL 154.35 TAP 42.64 RCA 104.48 APO 150.35 V2 34.808
 RC 125.948 GL 23.93 GP -6.32 ZAL 51.25 ZAP 149.69 ETS 350.29 ZAE 129.28 ETE 184.05 ZAC 102.93 ETC 168.03 CLP-150.29

PLANETOCENTRIC CONIC
 C3 18.202 VHL 4.266 OLA 38.13 RAL 30.93 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 4.756 DPA -5.81 RAP 10.50 ECC 1.2996
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.33 22 17 13 4098.58 -26.66 179.20 261.17 61.67 23 25 32 3498.6 -30.22 171.47
 116.67 4 33 8 2929.79 -26.65 90.82 261.16 61.66 5 21 58 2329.8 -30.21 83.09
 63.33 22 17 13 4098.58 -26.66 179.20 261.17 61.67 23 25 32 3498.6 -30.22 171.47
 116.67 4 33 8 2929.79 -26.65 90.82 261.16 61.66 5 21 58 2329.8 -30.21 83.09
 63.33 22 17 13 4098.58 -26.66 179.20 261.17 61.67 23 25 32 3498.6 -30.22 171.47
 116.67 4 33 8 2929.79 -26.65 90.82 261.16 61.66 5 21 58 2329.8 -30.21 83.09

DIFFERENTIAL CORRECTIONS
 TDE 2.5205 TRA 2.3338 TC3-3.2574 BAU .7927 SGT 5920.9 SGR 515.2 SG3 648.4 ST 3590.7 SR 496.7 SS 1753.4
 RDE .3685 RRA .0826 RC3 .0276 FAU .06590 RRT .7120 RRF .6946 RTF .9867 CRT .9676 CRS -.9434 CST -.9965
 FDE 2.8970 FRA 3.4169 FC3-3.1344 BSP 18979 SGB 5943.3 R23 -.0151 R13 .9867 LSA 4022.4 MSA 185.8 SSA 12.9
 BOE 2.5473 BRA 2.3353 BC3 3.2575 FSP -2311 SG1 5932.3 SG2 361.0 THA 3.56 EL1 3622.8 EL2 124.3 ALF 7.63

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.585 GAL 5.60 AZL 86.44 MCA 251.46 SMA 127.28 ECC .18356 INC 3.5622 V1 30.273
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.361 GAP 6.55 AZP 91.13 TAL 153.47 TAP 44.93 RCA 103.92 APO 150.65 V2 34.815
 RC 128.306 GL 23.01 GP -5.92 ZAL 49.97 ZAP 151.70 ETS 350.17 ZAE 128.39 ETE 183.55 ZAC 103.98 ETC 168.06 CLP-152.28

PLANETOCENTRIC CONIC
 C3 19.040 VHL 4.363 DLA 37.65 RAL 32.56 RAD 6567.8 VEL 11.850 PTH 2.10 VHP 4.970 DPA -4.96 RAP 11.41 ECC 1.3133
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.07 22 27 28 4098.24 -26.02 178.79 263.33 61.77 23 35 46 3498.2 -29.58 171.10
 115.93 4 35 53 2951.24 -26.01 92.20 263.32 61.76 5 25 5 2351.2 -29.57 84.51
 64.07 22 27 28 4098.24 -26.02 178.79 263.33 61.77 23 35 46 3498.2 -29.58 171.10
 115.93 4 35 53 2951.24 -26.01 92.20 263.32 61.76 5 25 5 2351.2 -29.57 84.51
 64.07 22 27 28 4098.24 -26.02 178.79 263.33 61.77 23 35 46 3498.2 -29.58 171.10
 115.93 4 35 53 2951.24 -26.01 92.20 263.32 61.76 5 25 5 2351.2 -29.57 84.51

DIFFERENTIAL CORRECTIONS
 TOE 2.5489 TRA 2.5222 TC3-3.1822 BAU .8101 SGT 6034.2 SGR 506.5 SG3 600.1 ST 3575.4 SR 490.3 SS 1659.7
 ROE .3723 RRA .0775 RC3 .0382 FAU .05971 RRT .6808 RRF .6643 RTF .9865 CRT .9607 CRS -.9343 CST -.9965
 FDE 2.6598 FRA 3.3263 FC3-2.7151 BSP 19429 SGB 6055.4 R23 -.0135 R13 .9864 LSA 3967.7 MSA 189.5 SSA 13.1
 BOE 2.5760 BRA 2.5234 BC3 3.1825 FSP -2147 SG1 6044.1 SG2 370.4 THA 3.28 EL1 3606.4 EL2 134.9 ALF 7.52

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.565 GAL 5.91 AZL 86.48 MCA 254.62 SMA 127.15 ECC .18741 INC 3.5168 V1 30.273
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.353 GAP 6.95 AZP 90.93 TAL 152.58 TAP 47.20 RCA 103.32 APO 150.98 V2 34.821
 RC 130.653 GL 22.10 GP -5.57 ZAL 48.68 ZAP 153.60 ETS 350.03 ZAE 127.59 ETE 183.14 ZAC 105.15 ETC 168.09 CLP-154.15

PLANETOCENTRIC CONIC
 C3 19.990 VHL 4.471 DLA 37.17 RAL 34.19 RAD 6567.8 VEL 11.890 PTH 2.11 VHP 5.193 DPA -4.10 RAP 12.43 ECC 1.3290
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.84 22 37 55 4098.22 -25.35 178.38 265.54 61.85 23 46 13 3498.2 -28.90 170.74
 115.16 4 38 26 2974.34 -25.33 93.68 265.53 61.84 5 28 0 2374.3 -28.89 86.04
 64.84 22 37 55 4098.22 -25.35 178.38 265.54 61.85 23 46 13 3498.2 -28.90 170.74
 115.16 4 38 26 2974.34 -25.33 93.68 265.53 61.84 5 28 0 2374.3 -28.89 86.04
 64.84 22 37 55 4098.22 -25.35 178.38 265.54 61.85 23 46 13 3498.2 -28.90 170.74
 115.16 4 38 26 2974.34 -25.33 93.68 265.53 61.84 5 28 0 2374.3 -28.89 86.04

DIFFERENTIAL CORRECTIONS
 TOE 2.5779 TRA 2.7250 TC3-3.0819 BAU .8237 SGT 6141.1 SGR 501.3 SG3 556.6 ST 3556.5 SR 486.4 SS 1575.3
 ROE .3786 RRA .0745 RC3 .0456 FAU .05376 RRT .6545 RRF .6393 RTF .9861 CRT .9536 CRS -.9251 CST -.9965
 FDE 2.4514 FRA 3.2486 FC3-2.3284 BSP 19744 SGB 6161.5 R23 -.0113 R13 .9861 LSA 3915.3 MSA 193.7 SSA 13.2
 BOE 2.6055 BRA 2.7260 BC3 3.0823 FSP -1983 SG1 6149.9 SG2 378.5 THA 3.07 EL1 3586.7 EL2 145.3 ALF 7.44

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.545 GAL 6.24 AZL 86.53 MCA 257.79 SMA 127.01 ECC .19156 INC 3.4727 V1 30.273
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.345 GAP 7.38 AZP 90.73 TAL 151.67 TAP 49.46 RCA 102.68 APO 151.34 V2 34.829
 RC 132.989 GL 21.18 GP -5.25 ZAL 47.38 ZAP 155.40 ETS 349.85 ZAE 126.87 ETE 182.79 ZAC 106.42 ETC 168.12 CLP-155.93

PLANETOCENTRIC CONIC
 C3 21.065 VHL 4.590 DLA 36.68 RAL 35.81 RAD 6567.9 VEL 11.935 PTH 2.12 VHP 5.426 DPA -3.24 RAP 13.56 ECC 1.3467
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.64 22 48 34 4098.44 -24.64 177.99 267.81 61.92 23 56 52 3498.4 -28.19 170.40
 114.36 4 40 43 2999.17 -24.63 95.28 267.81 61.91 5 30 42 2399.2 -28.18 87.69
 65.64 22 48 34 4098.44 -24.64 177.99 267.81 61.92 23 56 52 3498.4 -28.19 170.40
 114.36 4 40 43 2999.17 -24.63 95.28 267.81 61.91 5 30 42 2399.2 -28.18 87.69
 65.64 22 48 34 4098.44 -24.64 177.99 267.81 61.92 23 56 52 3498.4 -28.19 170.40
 114.36 4 40 43 2999.17 -24.63 95.28 267.81 61.91 5 30 42 2399.2 -28.18 87.69

DIFFERENTIAL CORRECTIONS
 TOE 2.6000 TRA 2.9344 TC3-2.9745 BAU .8378 SGT 6233.3 SGR 497.8 SG3 516.2 ST 3524.1 SR 483.7 SS 1493.4
 ROE .3865 RRA .0730 RC3 .0492 FAU .04856 RRT .6323 RRF .6183 RTF .9858 CRT .9461 CRS -.9156 CST -.9964
 FDE 2.2586 FRA 3.1727 FC3-1.9958 BSP 20124 SGB 6253.2 R23 -.0095 R13 .9858 LSA 3852.8 MSA 198.4 SSA 13.3
 BOE 2.6285 BRA 2.9353 BC3 2.9749 FSP -1846 SG1 6241.3 SG2 385.2 THA 2.90 EL1 3553.7 EL2 155.4 ALF 7.41

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC
 RL 147.17 LAL .00 LOL 89.20 VL 27.524 GAL 6.59 AZL 86.57 MCA 260.96 SMA 126.87 ECC .19604 INC 3.4296 V1 30.273
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.337 GAP 7.81 AZP 90.54 TAL 150.74 TAP 51.70 RCA 102.00 APO 151.74 V2 34.837
 RC 135.313 GL 20.28 GP -4.96 ZAL 46.07 ZAP 157.11 ETS 349.64 ZAE 126.21 ETE 182.50 ZAC 107.79 ETC 168.14 CLP-157.63

PLANETOCENTRIC CONIC
 C3 22.280 VHL 4.720 DLA 36.18 RAL 37.42 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 5.670 DPA -2.37 RAP 14.78 ECC 1.3667
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.47 22 59 25 4098.83 -23.91 177.59 270.14 61.99 24 7 44 3498.8 -27.45 170.05
 113.53 4 42 42 3025.84 -23.89 96.99 270.13 61.98 5 33 8 2425.8 -27.44 89.45
 66.47 22 59 25 4098.83 -23.91 177.59 270.14 61.99 24 7 44 3498.8 -27.45 170.05
 113.53 4 42 42 3025.84 -23.89 96.99 270.13 61.98 5 33 8 2425.8 -27.44 89.45
 66.47 22 59 25 4098.83 -23.91 177.59 270.14 61.99 24 7 44 3498.8 -27.45 170.05
 113.53 4 42 42 3025.84 -23.89 96.99 270.13 61.98 5 33 8 2425.8 -27.44 89.45

DIFFERENTIAL CORRECTIONS
 TOE 2.6196 TRA 3.1560 TC3-2.8529 BAU .8499 SGT 6316.1 SGR 495.7 SG3 479.3 ST 3485.0 SR 482.1 SS 1417.3
 ROE .3962 RRA .0733 RC3 .0505 FAU .04374 RRT .6146 RRF .6020 RTF .9854 CRT .9383 CRS -.9059 CST -.9964
 FDE 2.0849 FRA 3.1042 FC3-1.6995 BSP 20480 SGB 6335.5 R23 -.0076 R13 .9854 LSA 3787.5 MSA 203.4 SSA 13.3
 BOE 2.6494 BRA 3.1568 BC3 2.8533 FSP -1719 SG1 6323.5 SG2 390.6 THA 2.77 EL1 3514.3 EL2 165.4 ALF 7.41

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 21 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 574.196

RL 147.17 LAL .00 LOL 89.20 VL 27.503 GAL 6.97 AZL 86.61 MCA 264.13 SMA 126.73 ECC .20088 INC 3.3873 V1 30.273
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.329 GAP 8.26 AZP 90.35 TAL 149.79 TAP 53.93 RCA 101.27 APO 152.19 V2 34.846
 RC 137.625 GL 19.37 GP -4.71 ZAL 44.77 ZAP 158.74 ETS 349.37 ZAE 125.61 ETE 182.26 ZAC 109.23 ETC 168.15 CLP-159.24

PLANETOCENTRIC CONIC

C3 23.652 VML 4.863 OLA 35.68 RAL 39.01 RAD 6568.0 VEL 12.043 PTH 2.15 VHP 5.927 OPA -1.50 RAP 16.09 ECC 1.3892
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.33 23 10 29 4099.29 -23.14 177.18 272.51 62.05 24 18 48 3499.3 -26.69 169.69
 112.67 4 44 20 3054.48 -23.12 98.83 272.50 62.04 5 35 14 2454.5 -26.67 91.34
 67.33 23 10 29 4099.29 -23.14 177.18 272.51 62.05 24 18 48 3499.3 -26.69 169.69
 112.67 4 44 20 3054.48 -23.12 98.83 272.50 62.04 5 35 14 2454.5 -26.67 91.34
 67.33 23 10 29 4099.29 -23.14 177.18 272.51 62.05 24 18 48 3499.3 -26.69 169.69
 112.67 4 44 20 3054.48 -23.12 98.83 272.50 62.04 5 35 14 2454.5 -26.67 91.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6375 TRA 3.3909 TC3-2.7194 BAU .8600 SGT 6390.6 SGR 494.6 SG3 445.6 ST 3440.8 SR 481.0 SS 1346.8
 RDE .4073 RRA .0755 RC3 .0499 FAU .03928 RRT .6015 RRF .5903 RTF .9851 CRT .9302 CRS -.8962 CST -.9964
 FDE 1.9287 FRA 3.0430 FC3-1.4376 BSP 20799 SGB 6409.7 R23 -.0056 R13 .9850 LSA 3720.3 MSA 208.6 SSA 13.3
 BDE 2.6688 BRA 3.3918 BC3 2.7199 FSP -1602 SG1 6397.5 SG2 394.7 THA 2.68 EL1 3469.8 EL2 175.1 ALF 7.43

LAUNCH DATE DEC 21 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 579.952

RL 147.17 LAL .00 LOL 89.20 VL 27.481 GAL 7.38 AZL 86.65 MCA 267.31 SMA 126.59 ECC .20612 INC 3.3454 V1 30.273
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.322 GAP 8.73 AZP 90.16 TAL 148.84 TAP 56.15 RCA 100.49 APO 152.68 V2 34.855
 RC 139.923 GL 18.47 GP -4.48 ZAL 43.48 ZAP 160.30 ETS 349.04 ZAE 125.07 ETE 182.05 ZAC 110.75 ETC 168.15 CLP-160.80

PLANETOCENTRIC CONIC

C3 25.201 VML 5.020 OLA 35.16 RAL 40.58 RAD 6568.0 VEL 12.107 PTH 2.17 VHP 6.196 OPA -.63 RAP 17.47 ECC 1.4148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.22 23 21 47 4099.79 -22.34 176.76 274.92 62.11 24 30 6 3499.8 -25.88 169.32
 111.78 4 45 34 3085.15 -22.32 100.81 274.91 62.10 5 36 59 2485.2 -25.87 93.37
 68.22 23 21 47 4099.79 -22.34 176.76 274.92 62.11 24 30 6 3499.8 -25.88 169.32
 111.78 4 45 34 3085.15 -22.32 100.81 274.91 62.10 5 36 59 2485.2 -25.87 93.37
 68.22 23 21 47 4099.79 -22.34 176.76 274.92 62.11 24 30 6 3499.8 -25.88 169.32
 111.78 4 45 34 3085.15 -22.32 100.81 274.91 62.10 5 36 59 2485.2 -25.87 93.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6542 TRA 3.6401 TC3-2.5761 BAU .8681 SGT 6457.0 SGR 493.9 SG3 414.7 ST 3392.2 SR 480.1 SS 1281.5
 RDE .4196 RRA .0794 RC3 .0478 FAU .03516 RRT .5926 RRF .5827 RTF .9847 CRT .9219 CRS -.8864 CST -.9964
 FDE 1.7876 FRA 2.9882 FC3-1.2077 BSP 21081 SGB 6475.9 R23 -.0038 R13 .9847 LSA 3651.5 MSA 214.0 SSA 13.2
 BDE 2.6872 BRA 3.6410 BC3 2.5766 FSP -1493 SG1 6463.7 SG2 397.4 THA 2.61 EL1 3421.0 EL2 184.4 ALF 7.46

LAUNCH DATE DEC 21 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 585.662

RL 147.17 LAL .00 LOL 89.20 VL 27.459 GAL 7.81 AZL 86.70 MCA 270.48 SMA 126.44 ECC .21178 INC 3.3038 V1 30.273
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.314 GAP 9.22 AZP 89.97 TAL 147.88 TAP 58.36 RCA 99.66 APO 153.22 V2 34.865
 RC 142.207 GL 17.58 GP -4.27 ZAL 42.19 ZAP 161.80 ETS 348.63 ZAE 124.57 ETE 181.88 ZAC 112.33 ETC 168.13 CLP-162.29

PLANETOCENTRIC CONIC

C3 26.953 VML 5.192 OLA 34.64 RAL 42.12 RAD 6568.1 VEL 12.179 PTH 2.19 VHP 6.479 OPA .25 RAP 18.91 ECC 1.4436
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.16 23 33 21 4100.07 -21.51 176.31 277.37 62.16 24 41 41 3500.1 -25.06 168.92
 110.84 4 46 19 3118.13 -21.49 102.93 277.36 62.15 5 38 17 2518.1 -25.04 95.54
 69.16 23 33 21 4100.07 -21.51 176.31 277.37 62.16 24 41 41 3500.1 -25.06 168.92
 110.84 4 46 19 3118.13 -21.49 102.93 277.36 62.15 5 38 17 2518.1 -25.04 95.54
 69.16 23 33 21 4100.07 -21.51 176.31 277.37 62.16 24 41 41 3500.1 -25.06 168.92
 110.84 4 46 19 3118.13 -21.49 102.93 277.36 62.15 5 38 17 2518.1 -25.04 95.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6731 TRA 3.9078 TC3-2.4201 BAU .8722 SGT 6518.9 SGR 493.7 SG3 386.7 ST 3343.9 SR 479.2 SS 1223.1
 RDE .4331 RRA .0852 RC3 .0450 FAU .03118 RRT .5879 RRF .5793 RTF .9843 CRT .9136 CRS -.8768 CST -.9965
 FDE 1.6635 FRA 2.9427 FC3-1.0015 BSP 21261 SGB 6537.6 R23 -.0018 R13 .9843 LSA 3586.0 MSA 219.3 SSA 13.2
 BDE 2.7080 BRA 3.9087 BC3 2.4205 FSP -1387 SG1 6525.4 SG2 399.0 THA 2.56 EL1 3372.5 EL2 193.3 ALF 7.48

LAUNCH DATE DEC 21 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 591.319

RL 147.17 LAL .00 LOL 89.20 VL 27.437 GAL 8.28 AZL 86.74 MCA 273.66 SMA 126.29 ECC .21791 INC 3.2621 V1 30.273
 RP 108.66 LAP -3.26 LOP 360.68 VP 37.308 GAP 9.73 AZP 89.79 TAL 146.92 TAP 60.58 RCA 98.77 APO 153.81 V2 34.875
 RC 144.478 GL 16.69 GP -4.08 ZAL 40.92 ZAP 163.24 ETS 348.13 ZAE 124.11 ETE 181.74 ZAC 113.96 ETC 168.09 CLP-163.74

PLANETOCENTRIC CONIC

C3 28.935 VML 5.379 OLA 34.11 RAL 43.64 RAD 6568.2 VEL 12.260 PTH 2.21 VHP 6.779 OPA 1.12 RAP 20.41 ECC 1.4762
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.13 23 45 10 4100.18 -20.65 175.83 279.86 62.22 24 53 30 3500.2 -24.20 168.49
 109.87 4 46 34 3153.40 -20.63 105.21 279.85 62.21 5 39 7 2553.4 -24.18 97.87
 70.13 23 45 10 4100.18 -20.65 175.83 279.86 62.22 24 53 30 3500.2 -24.20 168.49
 109.87 4 46 34 3153.40 -20.63 105.21 279.85 62.21 5 39 7 2553.4 -24.18 97.87
 110.00 5 4 6 3099.94 -22.26 101.94 280.75 63.37 5 55 46 2499.9 -25.65 94.42
 110.00 4 30 44 3201.63 -19.03 108.06 278.93 61.05 5 24 6 2601.6 -22.74 100.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.6874 TRA 4.1883 TC3-2.2638 BAU .8759 SGT 6569.6 SGR 493.1 SG3 360.7 ST 3288.2 SR 477.8 SS 1167.2
 RDE .4473 RRA .0927 RC3 .0412 FAU .02764 RRT .5859 RRF .5785 RTF .9841 CRT .9048 CRS -.8670 CST -.9966
 FDE 1.5480 FRA 2.8997 FC3 -.8271 BSP 21509 SGB 6588.0 R23 -.0003 R13 .9841 LSA 3514.6 MSA 224.6 SSA 13.0
 BDE 2.7244 BRA 4.1894 BC3 2.2642 FSP -1296 SG1 6575.9 SG2 399.2 THA 2.53 EL1 3316.6 EL2 201.7 ALF 7.52

LAUNCH DATE DEC 21 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.414 GAL 8.78 AZL 86.78 MCA 276.84 SMA 126.14 ECC .22456 INC 3.2200 V1 30.273
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.301 GAP 10.27 AZP 89.62 TAL 145.96 TAP 62.79 RCA 97.82 APO 154.47 V2 34.885
 RC 146.734 GL 15.81 GP -3.91 ZAL 39.67 ZAP 164.64 ETS 347.51 ZAE 123.68 ETE 181.63 ZAC 115.65 ETC 168.03 CLP-165.14

PLANETOCENTRIC CONIC

C3 31.182 VHL 5.584 DLA 33.58 RAL 45.12 RAD 6568.2 VEL 12.351 PTH 2.23 VHP 7.095 DPA 1.99 RAP 21.97 ECC 1.5132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.16 0 1 16 4099.75 -19.76 175.30 282.37 62.29 1 9 36 3499.8 -23.31 168.01
 108.84 4 46 11 3191.31 -19.74 107.66 282.36 62.28 5 39 23 2591.3 -23.30 100.37
 71.16 0 1 16 4099.75 -19.76 175.30 282.37 62.29 1 9 36 3499.8 -23.31 168.01
 108.84 4 46 11 3191.31 -19.74 107.66 282.36 62.28 5 39 23 2591.3 -23.30 100.37
 110.00 5 42 4 3020.31 -24.61 96.94 284.94 65.49 6 32 24 2420.3 -27.70 89.13
 110.00 4 4 34 3318.75 -15.04 114.79 279.59 58.94 4 59 53 2718.7 -19.05 107.96

DIFFERENTIAL CORRECTIONS

TDE 2.7018 TRA 4.4868 TC3-2.1034 BAU .8770 SGT 6613.3 SGR 492.3 SG3 336.8 ST 3230.8 SR 475.7 SS 1116.0
 RDE .4622 RRA .1019 RC3 .0371 FAU .02435 RRT .5869 RRF .5804 RTF .9838 CRT .8959 CRS -.8572 CST -.9967
 FDE 1.4440 FRA 2.8627 FC3 -.6762 BSP 21730 SGB 6631.6 R23 .0011 R13 .9838 LSA 3443.4 MSA 229.6 SSA 12.9
 BOE 2.7410 BRA 4.4879 BC3 2.1037 FSP -1212 SGI 6619.6 SG2 398.2 THA 2.51 ELI 3258.9 EL2 209.5 ALF 7.55

LAUNCH DATE DEC 21 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.391 GAL 9.32 AZL 86.82 MCA 280.02 SMA 125.99 ECC .23177 INC 3.1773 V1 30.273
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.295 GAP 10.83 AZP 89.45 TAL 145.00 TAP 65.01 RCA 96.79 APO 155.20 V2 34.897
 RC 148.977 GL 14.95 GP -3.76 ZAL 38.44 ZAP 166.00 ETS 346.74 ZAE 123.28 ETE 181.54 ZAC 117.37 ETC 167.94 CLP-166.50

PLANETOCENTRIC CONIC

C3 33.733 VHL 5.808 DLA 33.03 RAL 46.55 RAD 6568.3 VEL 12.454 PTH 2.25 VHP 7.431 DPA 2.86 RAP 23.57 ECC 1.5552
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.24 0 13 47 4098.71 -18.84 174.71 284.92 62.35 1 22 6 3498.7 -22.39 167.46
 107.76 4 45 9 3231.97 -18.83 110.29 284.91 62.35 5 39 1 2632.0 -22.38 103.05
 72.24 0 13 47 4098.71 -18.84 174.71 284.92 62.35 1 22 6 3498.7 -22.39 167.46
 107.76 4 45 9 3231.97 -18.83 110.29 284.91 62.35 5 39 1 2632.0 -22.38 103.05
 110.00 6 6 3 2983.42 -25.63 94.56 288.41 66.56 6 55 46 2383.4 -28.57 86.62
 110.00 3 52 4 3395.25 -12.31 119.03 281.02 57.86 4 48 39 2795.3 -16.47 112.39

DIFFERENTIAL CORRECTIONS

TDE 2.7166 TRA 4.8052 TC3-1.9402 BAU .8751 SGT 6650.7 SGR 491.1 SG3 314.8 ST 3172.4 SR 472.9 SS 1069.3
 RDE .4776 RRA .1130 RC3 .0328 FAU .02128 RRT .5905 RRF .5848 RTF .9837 CRT .8868 CRS -.8475 CST -.9968
 FDE 1.3501 FRA 2.8315 FC3 -.5462 BSP 21922 SGB 6668.8 R23 .0023 R13 .9837 LSA 3372.8 MSA 234.3 SSA 12.6
 BOE 2.7583 BRA 4.8065 BC3 1.9405 FSP -1133 SGI 6657.0 SG2 395.9 THA 2.51 ELI 3200.1 EL2 216.6 ALF 7.57

LAUNCH DATE DEC 21 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.368 GAL 9.90 AZL 86.87 MCA 283.20 SMA 125.84 ECC .23961 INC 3.1338 V1 30.273
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.289 GAP 11.43 AZP 89.28 TAL 144.05 TAP 67.25 RCA 95.69 APO 156.00 V2 34.908
 RC 151.204 GL 14.09 GP -3.62 ZAL 37.23 ZAP 167.32 ETS 345.78 ZAE 122.90 ETE 181.46 ZAC 119.12 ETC 167.83 CLP-167.84

PLANETOCENTRIC CONIC

C3 36.638 VHL 6.053 DLA 32.48 RAL 47.95 RAD 6568.4 VEL 12.570 PTH 2.28 VHP 7.789 DPA 3.72 RAP 25.20 ECC 1.6030
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.38 0 26 45 4096.66 -17.90 174.03 287.48 62.43 1 35 1 3496.7 -21.45 166.83
 106.62 4 43 20 3275.73 -17.88 113.13 287.47 62.42 5 37 56 2675.7 -21.43 105.93
 73.38 0 26 45 4096.66 -17.90 174.03 287.48 62.43 1 35 1 3496.7 -21.45 166.83
 106.62 4 43 20 3275.73 -17.88 113.13 287.47 62.42 5 37 56 2675.7 -21.43 105.93
 110.00 6 25 56 2959.23 -26.27 92.98 291.71 67.30 7 15 15 2359.2 -29.11 84.94
 110.00 3 43 19 3461.16 -9.90 122.61 282.68 57.11 4 41 0 2861.2 -14.16 116.11

DIFFERENTIAL CORRECTIONS

TDE 2.7363 TRA 5.1493 TC3-1.7715 BAU .8678 SGT 6685.5 SGR 489.6 SG3 294.9 ST 3117.3 SR 469.4 SS 1028.5
 RDE .4938 RRA .1262 RC3 .0289 FAU .01827 RRT .5968 RRF .5919 RTF .9836 CRT .8777 CRS -.8383 CST -.9970
 FDE 1.2683 FRA 2.8088 FC3 -.4317 BSP 21999 SGB 6703.4 R23 .0035 R13 .9836 LSA 3307.4 MSA 238.4 SSA 12.4
 BOE 2.7805 BRA 5.1508 BC3 1.7718 FSP -1055 SGI 6691.9 SG2 392.5 THA 2.51 ELI 3144.6 EL2 222.9 ALF 7.57

LAUNCH DATE DEC 21 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

RL 147.17 LAL .00 LOL 89.20 VL 27.345 GAL 10.53 AZL 86.91 MCA 286.38 SMA 125.69 ECC .24816 INC 3.0891 V1 30.273
 RP 108.52 LAP -2.96 LOP 15.60 VP 37.283 GAP 12.07 AZP 89.13 TAL 143.12 TAP 69.50 RCA 94.50 APO 156.89 V2 34.920
 RC 153.416 GL 13.25 GP -3.49 ZAL 36.06 ZAP 168.61 ETS 344.56 ZAE 122.53 ETE 181.40 ZAC 120.90 ETC 167.69 CLP-169.15

PLANETOCENTRIC CONIC

C3 39.955 VHL 6.321 DLA 31.93 RAL 49.30 RAD 6568.5 VEL 12.701 PTH 2.31 VHP 8.172 DPA 4.58 RAP 26.88 ECC 1.6576
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.60 0 40 13 4093.37 -16.93 173.25 290.07 62.52 1 48 26 3493.4 -20.48 166.10
 105.40 4 40 38 3322.83 -16.92 116.20 290.06 62.51 5 36 1 2722.8 -20.47 109.04
 74.60 0 40 13 4093.37 -16.93 173.25 290.07 62.52 1 48 26 3493.4 -20.48 166.10
 105.40 4 40 38 3322.83 -16.92 116.20 290.06 62.51 5 36 1 2722.8 -20.47 109.04
 110.00 6 43 31 2942.28 -26.71 91.85 294.93 67.83 7 32 33 2342.3 -29.48 83.76
 110.00 3 36 31 3521.92 -7.63 125.86 284.48 56.58 4 35 12 2921.9 -11.98 119.46

DIFFERENTIAL CORRECTIONS

TDE 2.7527 TRA 5.5119 TC3-1.6087 BAU .8594 SGT 6709.4 SGR 487.3 SG3 276.2 ST 3057.5 SR 464.6 SS 989.8
 RDE .5101 RRA .1410 RC3 .0249 FAU .01559 RRT .6044 RRF .5999 RTF .9836 CRT .8683 CRS -.8288 CST -.9971
 FDE 1.1916 FRA 2.7886 FC3 -.3379 BSP 22175 SGB 6727.1 R23 .0043 R13 .9836 LSA 3238.1 MSA 241.9 SSA 12.2
 BOE 2.7995 BRA 5.5137 BC3 1.6089 FSP -989 SGI 6715.9 SG2 387.8 THA 2.52 ELI 3084.1 EL2 228.4 ALF 7.56

LAUNCH DATE DEC 22 1968

FLIGHT TIME 70.00

ARRIVAL DATE MAR 2 1969

HELIOCENTRIC CONIC

DISTANCE 140.064

RL 147.16 LAL .00 LOL 90.22 VL 18.628 GAL 17.50 AZL 85.96 HCA 47.45 SMA 91.10 ECC .65933 INC 4.0398 VI 30.275
 RP 107.48 LAP 2.98 LOP 137.60 VP 31.825 GAP -40.15 AZP 87.27 TAL 170.37 TAP 217.82 RCA 31.04 APO 151.17 V2 35.257
 RC 66.167 GL 5.19 GP 1.15 ZAL 65.66 ZAP 28.05 ETS 182.11 ZAE 143.02 ETE 191.09 ZAC 80.29 ETC 165.72 CLP 28.03

PLANETOCENTRIC CONIC

C3 191.716 VHL 13.846 DLA 14.37 RAL 20.88 RAD 6571.0 VEL 17.693 PTH 2.98 VHP 23.284 OPA -7.72 RAP 347.68 ECC 4.1552
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 51 3190.14 -26.22 110.05 286.40 78.91 5 42 1 2590.1 -27.49 101.61
 90.00 20 33 28 4907.06 20.71 213.53 273.85 70.25 21 55 15 4307.1 17.83 206.04
 100.00 6 17 52 2903.06 -27.99 89.32 286.79 79.06 7 6 15 2303.1 -29.22 80.73
 100.00 21 47 8 4669.37 22.41 195.39 273.19 69.68 23 4 57 4069.4 19.44 187.85
 110.00 7 43 18 2635.77 -32.69 70.06 287.83 79.40 8 27 14 2035.8 -33.81 61.00
 110.00 22 38 12 4509.42 26.87 181.36 271.29 68.03 23 53 21 3909.4 23.65 173.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6526 TRA-1.6902 TC3 -.1129 BAU .2936 SGT 831.9 SGR 446.0 SG3 30.6 ST 346.3 SR 410.9 SS 333.1
 RDE -.9851 RRA .4050 RC3 -.0193 FAU .01318 RRT .0051 RRF -.0078 RTF -.6393 CRT .6946 CRS .7920 CST .9876
 FDE .3453 FRA .6522 FC3 -.0595 BSP 2228 SGB 943.9 R23 -.0032 R13 -.6394 LSA 590.6 MSA 225.4 SSA 13.7
 BDE 1.1816 BRA 1.7381 BC3 .1145 FSP -65 SG1 831.9 SG2 446.0 THA .22 EL1 496.2 EL2 206.3 ALF 51.95

LAUNCH DATE DEC 22 1968

FLIGHT TIME 72.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 146.053

RL 147.16 LAL .00 LOL 90.22 VL 19.295 GAL 16.75 AZL 86.04 HCA 50.70 SMA 92.71 ECC .63184 INC 3.9593 VI 30.275
 RP 107.49 LAP 3.06 LOP 140.85 VP 32.217 GAP -38.27 AZP 87.49 TAL 169.61 TAP 220.31 RCA 34.13 APO 151.29 V2 35.256
 RC 64.161 GL 5.55 GP 1.18 ZAL 64.56 ZAP 26.52 ETS 182.43 ZAE 143.64 ETE 191.74 ZAC 81.94 ETC 165.86 CLP 26.49

PLANETOCENTRIC CONIC

C3 173.983 VHL 13.190 DLA 15.13 RAL 21.81 RAD 6570.9 VEL 17.184 PTH 2.94 VHP 22.344 OPA -7.02 RAP 349.26 ECC 3.8633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 44 3201.06 -26.08 110.82 286.43 78.55 5 39 5 2601.1 -27.39 102.40
 90.00 20 44 1 4864.53 19.71 210.81 273.60 69.25 22 5 5 4264.5 16.71 203.42
 100.00 6 15 18 2912.22 -27.87 89.98 286.84 78.73 7 3 50 2312.2 -29.14 81.40
 100.00 21 57 8 4628.61 21.42 192.76 272.90 68.64 23 14 16 4028.6 18.33 185.33
 110.00 7 41 53 2641.32 -32.62 70.48 287.91 79.16 8 25 54 2041.3 -33.77 61.43
 110.00 22 47 2 4472.27 25.90 178.91 270.90 66.87 24 1 35 3872.3 22.54 171.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6508 TRA-1.6922 TC3 -.1188 BAU .2808 SGT 870.6 SGR 450.5 SG3 33.2 ST 363.6 SR 415.7 SS 348.6
 RDE -.9495 RRA .3827 RC3 -.0215 FAU .01340 RRT .0083 RRF -.0111 RTF -.6589 CRT .6935 CRS .7931 CST .9872
 FDE .3586 FRA .6754 FC3 -.0667 BSP 2397 SGB 980.2 R23 -.0037 R13 -.6589 LSA 610.5 MSA 231.5 SSA 13.9
 BDE 1.1511 BRA 1.7349 BC3 .1207 FSP -72 SG1 870.6 SG2 450.5 THA .33 EL1 509.1 EL2 213.8 ALF 50.48

LAUNCH DATE DEC 22 1968

FLIGHT TIME 74.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 152.130

RL 147.16 LAL .00 LOL 90.22 VL 19.917 GAL 16.02 AZL 86.11 HCA 53.94 SMA 94.32 ECC .60502 INC 3.8859 VI 30.275
 RP 107.50 LAP 3.14 LOP 144.10 VP 32.591 GAP -36.48 AZP 87.71 TAL 168.88 TAP 222.82 RCA 37.25 APO 151.39 V2 35.253
 RC 62.196 GL 5.92 GP 1.22 ZAL 63.53 ZAP 25.01 ETS 182.79 ZAE 144.38 ETE 192.45 ZAC 83.61 ETC 165.98 CLP 24.98

PLANETOCENTRIC CONIC

C3 157.975 VHL 12.569 DLA 15.87 RAL 22.69 RAD 6570.7 VEL 16.712 PTH 2.90 VHP 21.439 OPA -6.30 RAP 350.85 ECC 3.5999
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 42 21 3211.17 -25.94 111.53 286.34 78.22 5 35 52 2611.2 -27.30 103.12
 90.00 20 54 21 4821.32 18.65 208.09 273.29 68.30 22 14 43 4221.3 15.54 200.79
 100.00 6 12 29 2920.51 -27.76 90.57 286.76 78.44 7 1 10 2320.5 -29.07 82.01
 100.00 22 6 55 4587.22 20.37 190.14 272.55 67.64 23 23 22 3987.2 17.16 182.81
 110.00 7 40 15 2645.92 -32.56 70.82 287.87 78.96 8 24 21 2045.9 -33.74 61.79
 110.00 22 55 38 4434.57 24.87 176.46 270.46 65.75 24 9 33 3834.6 21.38 169.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6521 TRA-1.6962 TC3 -.1250 BAU .2688 SGT 912.8 SGR 454.3 SG3 36.0 ST 382.9 SR 419.8 SS 364.8
 RDE -.9140 RRA .3607 RC3 -.0239 FAU .01363 RRT .0128 RRF -.0151 RTF -.6775 CRT .6937 CRS .7945 CST .9870
 FDE .3727 FRA .6993 FC3 -.0747 BSP 2507 SGB 1019.7 R23 -.0036 R13 -.6775 LSA 632.0 MSA 237.1 SSA 14.1
 BDE 1.1227 BRA 1.7341 BC3 .1273 FSP -79 SG1 912.9 SG2 454.3 THA .48 EL1 523.3 EL2 221.2 ALF 48.78

LAUNCH DATE DEC 22 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 158.290

RL 147.16 LAL .00 LOL 90.22 VL 20.498 GAL 15.32 AZL 86.18 HCA 57.19 SMA 95.92 ECC .57894 INC 3.8184 VI 30.275
 RP 107.51 LAP 3.21 LOP 147.35 VP 32.946 GAP -34.78 AZP 87.93 TAL 168.17 TAP 225.36 RCA 40.39 APO 151.45 V2 35.250
 RC 60.278 GL 6.31 GP 1.27 ZAL 62.56 ZAP 23.51 ETS 183.18 ZAE 145.25 ETE 193.21 ZAC 85.29 ETC 166.09 CLP 23.48

PLANETOCENTRIC CONIC

C3 143.507 VHL 11.979 DLA 16.59 RAL 23.50 RAD 6570.6 VEL 16.274 PTH 2.85 VHP 20.566 OPA -5.57 RAP 352.44 ECC 3.3618
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 42 3220.52 -25.81 112.18 286.11 77.92 5 32 22 2620.5 -27.21 103.79
 90.00 21 4 31 4777.39 17.52 205.36 272.93 67.39 22 24 8 4177.4 14.30 198.16
 100.00 6 9 23 2927.96 -27.66 91.10 286.55 78.18 6 58 13 2328.0 -29.01 82.55
 100.00 22 16 29 4545.18 19.26 187.51 272.15 66.69 23 32 14 3945.2 15.94 180.29
 110.00 7 38 24 2649.57 -32.51 71.10 287.69 78.81 8 22 33 2049.6 -33.71 62.07
 110.00 23 4 0 4396.34 23.78 174.03 269.96 64.68 24 17 16 3796.3 20.17 166.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6511 TRA-1.6967 TC3 -.1303 BAU .2550 SGT 954.7 SGR 457.4 SG3 39.1 ST 402.0 SR 423.3 SS 381.3
 RDE -.8787 RRA .3390 RC3 -.0264 FAU .01390 RRT .0169 RRF -.0195 RTF -.6956 CRT .6934 CRS .7960 CST .9867
 FDE .3871 FRA .7233 FC3 -.0838 BSP 2690 SGB 1058.6 R23 -.0042 R13 -.6956 LSA 653.6 MSA 242.4 SSA 14.3
 BDE 1.0937 BRA 1.7303 BC3 .1329 FSP -87 SG1 954.7 SG2 457.4 THA .60 EL1 537.3 EL2 228.2 ALF 47.13

LAUNCH DATE DEC 22 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 164.527

RL 147.16 LAL .00 LOL 90.22 VL 21.040 GAL 14.64 AZL 86.24 MCA 60.44 SMA 97.51 ECC .55366 INC 3.7557 V1 30.275
 RP 107.52 LAP 3.27 LOP 150.60 VP 33.282 GAP -33.16 AZP 88.15 TAL 167.48 TAP 227.91 RCA 43.52 APO 151.50 V2 35.246
 RC 58.412 GL 6.71 GP 1.31 ZAL 61.65 ZAP 22.04 ETS 183.62 ZAE 146.24 ETE 194.04 ZAC 86.99 ETC 166.19 CLP 22.00

PLANETOCENTRIC CONIC

C3 130.421 VHL 11.420 OLA 17.30 RAL 24.26 RAD 6570.4 VEL 15.867 PTH 2.81 VHP 19.724 DPA -4.82 RAP 354.05 ECC 3.1464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 45 3229.18 -25.68 112.78 285.76 77.64 5 28 34 2629.2 -27.13 104.41
 90.00 21 14 30 4732.72 16.33 202.62 272.50 66.54 22 33 23 4132.7 13.02 195.51
 100.00 6 6 5 2934.63 -27.56 91.57 286.22 77.95 6 55 0 2334.6 -28.95 83.04
 100.00 22 25 51 4502.49 18.09 184.88 271.69 65.79 23 40 53 3902.5 14.67 177.76
 110.00 7 36 19 2652.34 -32.48 71.30 287.39 78.69 8 20 31 2052.3 -33.69 62.28
 110.00 23 12 7 4357.56 22.62 171.61 269.41 63.67 24 24 44 3757.6 18.90 164.45

DIFFERENTIAL CORRECTIONS

TOE -.6507 TRA-1.6964 TC3 -.1351 BAU .2409
 ROE -.8437 RRA .3175 RC3 -.0291 FAU .01420
 FOE .4021 FRA .7477 FC3 -.0942 BSP 2871
 BOE 1.0655 BRA 1.7259 BC3 .1382 FSP -97

MID-COURSE EXECUTION ACCURACY

SGT 998.2 SGR 459.8 SG3 42.5
 RRT .0217 RRF -.0244 RTF -.7130
 SGB 1099.0 R23 -.0048 R13 -.7131
 SG1 998.3 SG2 459.7 THA .73

ORBIT DETERMINATION ACCURACY

ST 422.1 SR 426.3 SS 398.3
 CRT .6938 CRS .7977 CST .9864
 LSA 676.2 MSA 247.1 SSA 14.5
 EL1 552.1 EL2 234.7 ALF 45.40

LAUNCH DATE DEC 22 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 12 1969

HELIOCENTRIC CONIC

DISTANCE 170.834

RL 147.16 LAL .00 LOL 90.22 VL 21.547 GAL 13.98 AZL 86.30 MCA 63.68 SMA 99.08 ECC .52921 INC 3.6969 V1 30.275
 RP 107.53 LAP 3.31 LOP 153.85 VP 33.599 GAP -31.61 AZP 88.36 TAL 166.82 TAP 230.50 RCA 46.65 APO 151.52 V2 35.241
 RC 56.605 GL 7.11 GP 1.37 ZAL 60.81 ZAP 20.58 ETS 184.12 ZAE 147.38 ETE 194.96 ZAC 88.70 ETC 166.27 CLP 20.53

PLANETOCENTRIC CONIC

C3 118.578 VHL 10.889 OLA 18.00 RAL 24.95 RAD 6570.2 VEL 15.489 PTH 2.76 VHP 18.911 DPA -4.05 RAP 355.66 ECC 2.9515
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 30 3237.20 -25.56 113.34 285.29 77.39 5 24 27 2637.2 -27.05 104.99
 90.00 21 24 19 4687.29 15.08 199.87 272.03 65.74 22 42 27 4087.3 11.68 192.84
 100.00 6 2 29 2940.59 -27.48 91.99 285.76 77.74 6 51 29 2340.6 -28.89 83.47
 100.00 22 35 1 4459.14 16.86 182.25 271.18 64.94 23 49 21 3859.1 13.34 175.22
 110.00 7 34 0 2654.25 -32.45 71.45 286.96 78.61 8 18 14 2054.2 -33.68 62.43
 110.00 23 20 0 4318.24 21.42 169.19 268.81 62.70 24 31 58 3718.2 17.59 162.16

DIFFERENTIAL CORRECTIONS

TOE -.6535 TRA-1.6978 TC3 -.1401 BAU .2278
 ROE -.8091 RRA .2964 RC3 -.0320 FAU .01452
 FOE .4181 FRA .7730 FC3 -.1060 BSP 2995
 BOE 1.0400 BRA 1.7235 BC3 .1437 FSP -106

MID-COURSE EXECUTION ACCURACY

SGT 1045.8 SGR 461.5 SG3 46.1
 RRT .0282 RRF -.0303 RTF -.7293
 SGB 1143.1 R23 -.0048 R13 -.7294
 SG1 1045.9 SG2 461.3 THA .88

ORBIT DETERMINATION ACCURACY

ST 444.7 SR 428.5 SS 416.2
 CRT .6955 CRS .7998 CST .9863
 LSA 700.9 MSA 251.3 SSA 14.7
 EL1 568.7 EL2 240.8 ALF 43.48

LAUNCH DATE DEC 22 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 14 1969

HELIOCENTRIC CONIC

DISTANCE 177.206

RL 147.16 LAL .00 LOL 90.22 VL 22.020 GAL 13.35 AZL 86.36 MCA 66.92 SMA 100.63 ECC .50562 INC 3.6413 V1 30.275
 RP 107.55 LAP 3.35 LOP 157.10 VP 33.899 GAP -30.14 AZP 88.57 TAL 166.18 TAP 233.11 RCA 49.75 APO 151.51 V2 35.235
 RC 54.864 GL 7.53 GP 1.42 ZAL 60.03 ZAP 19.13 ETS 184.68 ZAE 148.65 ETE 195.98 ZAC 90.42 ETC 166.34 CLP 19.08

PLANETOCENTRIC CONIC

C3 107.853 VHL 10.385 OLA 18.68 RAL 25.59 RAD 6570.1 VEL 15.139 PTH 2.72 VHP 18.126 DPA -3.28 RAP 357.27 ECC 2.7750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 55 3244.68 -25.45 113.86 284.69 77.15 5 20 0 2644.7 -26.97 105.52
 90.00 21 33 59 4641.09 13.77 197.11 271.50 65.01 22 51 20 4041.1 10.28 190.16
 100.00 5 58 35 2945.87 -27.40 92.37 285.18 77.56 6 47 41 2345.9 -28.84 83.86
 100.00 22 44 0 4415.13 15.57 179.62 270.61 64.16 23 57 36 3815.1 11.97 172.68
 110.00 7 31 26 2655.35 -32.43 71.53 286.41 78.56 8 15 41 2055.4 -33.67 62.51
 110.00 23 27 38 4278.42 20.15 166.79 268.16 61.79 24 38 57 3678.4 16.23 159.87

DIFFERENTIAL CORRECTIONS

TOE -.6540 TRA-1.6953 TC3 -.1435 BAU .2130
 ROE -.7749 RRA .2757 RC3 -.0350 FAU .01490
 FOE .4346 FRA .7986 FC3 -.1196 BSP 3191
 BOE 1.0140 BRA 1.7175 BC3 .1477 FSP -117

MID-COURSE EXECUTION ACCURACY

SGT 1092.6 SGR 462.4 SG3 50.0
 RRT .0344 RRF -.0366 RTF -.7453
 SGB 1186.4 R23 -.0054 R13 -.7453
 SG1 1092.8 SG2 462.1 THA 1.01

ORBIT DETERMINATION ACCURACY

ST 466.9 SR 430.2 SS 434.6
 CRT .6970 CRS .8022 CST .9861
 LSA 725.8 MSA 254.9 SSA 14.9
 EL1 585.2 EL2 246.1 ALF 41.65

LAUNCH DATE DEC 22 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 16 1969

HELIOCENTRIC CONIC

DISTANCE 183.638

RL 147.16 LAL .00 LOL 90.22 VL 22.462 GAL 12.73 AZL 86.41 MCA 70.17 SMA 102.15 ECC .48293 INC 3.5883 V1 30.275
 RP 107.57 LAP 3.38 LOP 160.35 VP 34.181 GAP -28.73 AZP 88.78 TAL 165.58 TAP 235.75 RCA 52.82 APO 151.49 V2 35.229
 RC 53.197 GL 7.96 GP 1.49 ZAL 59.31 ZAP 17.69 ETS 185.34 ZAE 150.06 ETE 197.12 ZAC 92.15 ETC 166.38 CLP 17.63

PLANETOCENTRIC CONIC

C3 98.137 VHL 9.906 OLA 19.35 RAL 26.17 RAD 6569.9 VEL 14.815 PTH 2.68 VHP 17.368 DPA -2.49 RAP 358.89 ECC 2.6151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 21 0 3251.70 -25.34 114.35 283.97 76.93 5 15 12 2651.7 -26.89 106.02
 90.00 21 43 30 4594.13 12.40 194.34 270.92 64.34 23 0 4 3994.1 8.84 187.46
 100.00 5 54 23 2950.58 -27.33 92.70 284.48 77.40 6 43 33 2350.6 -28.79 84.20
 100.00 22 52 49 4370.48 14.23 176.98 270.00 63.43 24 5 39 3770.5 10.55 170.12
 110.00 7 28 38 2655.71 -32.43 71.56 285.73 78.55 8 12 53 2055.7 -33.67 62.54
 110.00 23 35 3 4238.11 18.84 164.41 267.46 60.94 24 45 41 3638.1 14.82 157.60

DIFFERENTIAL CORRECTIONS

TOE -.6553 TRA-1.6918 TC3 -.1461 BAU .1981
 ROE -.7411 RRA .2555 RC3 -.0381 FAU .01531
 FOE .4522 FRA .8249 FC3 -.1351 BSP 3383
 BOE .9893 BRA 1.7109 BC3 .1510 FSP -129

MID-COURSE EXECUTION ACCURACY

SGT 1141.4 SGR 462.6 SG3 54.3
 RRT .0415 RRF -.0438 RTF -.7605
 SGB 1231.6 R23 -.0061 R13 -.7606
 SG1 1141.6 SG2 462.1 THA 1.15

ORBIT DETERMINATION ACCURACY

ST 490.4 SR 431.2 SS 453.9
 CRT .6992 CRS .8048 CST .9860
 LSA 752.2 MSA 257.8 SSA 15.0
 EL1 603.0 EL2 250.7 ALF 39.77

LAUNCH DATE DEC 22 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 18 1969

HELIOCENTRIC CONIC

DISTANCE 190.123

RL 147.16 LAL .00 LOL 90.22 VL 22.875 GAL 12.14 AZL 86.46 MCA 73.41 SMA 103.65 ECC .46114 INC 3.5375 V1 30.275
 RP 107.59 LAP 3.39 LOP 163.60 VP 34.447 GAP -27.38 AZP 88.99 TAL 165.01 TAP 238.42 RCA 55.85 APO 151.44 V2 35.222
 RC 51.611 GL 8.40 GP 1.55 ZAL 58.66 ZAP 16.26 ETS 186.12 ZAE 151.62 ETE 198.42 ZAC 93.88 ETC 166.41 CLP 16.19

PLANETOCENTRIC CONIC

C3 89.333 VHL 9.452 DLA 20.01 RAL 26.68 RAD 6569.7 VEL 14.515 PTH 2.63 VHP 16.636 DPA -1.69 RAP .51 ECC 2.4702
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 43 3258.36 -25.24 114.81 283.14 76.72 5 10 1 2658.4 -26.82 106.49
 90.00 21 52 54 4546.39 10.98 191.56 270.29 63.73 23 8 40 3946.4 7.36 184.75
 100.00 5 49 52 2954.77 -27.27 92.99 283.66 77.25 6 39 7 2354.8 -28.75 84.51
 100.00 23 1 26 4325.22 12.83 174.34 269.33 62.77 24 13 31 3725.2 9.08 167.56
 110.00 7 25 34 2655.38 -32.43 71.53 284.94 78.56 8 9 49 2055.4 -33.67 62.52
 110.00 23 42 14 4197.38 17.47 162.04 266.72 60.14 24 52 11 3597.4 13.37 155.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6569 TRA-1.6866 TC3 -.1474 BAU .1828 SGT 1191.7 SGR 462.0 SG3 59.0 ST 515.0 SR 431.6 SS 473.9
 RDE -.7080 RRA .2357 RC3 -.0413 FAU .01578 RRT .0495 RRF -.0519 RTF -.7750 CRT .7020 CRS .8078 CST .9859
 FDE .4708 FRA .8520 FC3 -.1529 BSP 3585 SGB 1278.1 R23 -.0067 R13 -.7751 LSA 779.9 MSA 260.0 SSA 15.1
 BDE .9658 BRA 1.7030 BC3 .1530 FSP -143 SG1 1191.9 SG2 461.3 THA 1.29 EL1 621.8 EL2 254.5 ALF 37.90

LAUNCH DATE DEC 22 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 196.657

RL 147.16 LAL .00 LOL 90.22 VL 23.261 GAL 11.57 AZL 86.51 MCA 76.65 SMA 105.11 ECC .44026 INC 3.4884 V1 30.275
 RP 107.61 LAP 3.39 LOP 166.84 VP 34.697 GAP -26.09 AZP 89.19 TAL 164.47 TAP 241.12 RCA 58.83 APO 151.38 V2 35.215
 RC 50.116 GL 8.84 GP 1.63 ZAL 58.08 ZAP 14.85 ETS 187.04 ZAE 153.33 ETE 199.92 ZAC 95.61 ETC 166.42 CLP 14.76

PLANETOCENTRIC CONIC

C3 81.356 VHL 9.020 DLA 20.65 RAL 27.14 RAD 6569.6 VEL 14.237 PTH 2.59 VHP 15.928 DPA -.88 RAP 2.12 ECC 2.3389
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 4 3264.77 -25.14 115.25 282.19 76.52 5 4 29 2664.8 -26.75 106.95
 90.00 22 2 10 4497.92 9.50 188.76 269.61 63.20 23 17 8 3897.9 5.83 182.00
 100.00 5 45 2 2958.54 -27.21 93.26 282.73 77.13 6 34 21 2358.5 -28.71 84.78
 100.00 23 9 53 4279.38 11.39 171.70 268.62 62.18 24 21 12 3679.4 7.58 164.99
 110.00 7 22 15 2654.42 -32.45 71.46 284.03 78.60 8 6 29 2054.4 -33.68 62.44
 110.00 23 49 10 4156.27 16.07 159.68 265.93 59.41 24 58 26 3556.3 11.89 153.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6618 TRA-1.6826 TC3 -.1485 BAU .1687 SGT 1246.3 SGR 460.6 SG3 64.2 ST 542.4 SR 431.4 SS 495.3
 RDE -.6755 RRA .2163 RC3 -.0446 FAU .01628 RRT .0596 RRF -.0613 RTF -.7884 CRT .7065 CRS .8112 CST .9860
 FDE .4911 FRA .8803 FC3 -.1732 BSP 3728 SGB 1328.7 R23 -.0069 R13 -.7885 LSA 810.6 MSA 261.3 SSA 15.3
 BDE .9456 BRA 1.6965 BC3 .1551 FSP -156 SG1 1246.6 SG2 459.7 THA 1.46 EL1 643.5 EL2 257.3 ALF 35.94

LAUNCH DATE DEC 22 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 203.233

RL 147.16 LAL .00 LOL 90.22 VL 23.620 GAL 11.01 AZL 86.56 MCA 79.89 SMA 106.53 ECC .42030 INC 3.4406 V1 30.275
 RP 107.64 LAP 3.39 LOP 170.09 VP 34.931 GAP -24.85 AZP 89.40 TAL 163.98 TAP 243.86 RCA 61.75 APO 151.30 V2 35.207
 RC 48.721 GL 9.30 GP 1.71 ZAL 57.56 ZAP 13.43 ETS 188.17 ZAE 155.19 ETE 201.66 ZAC 97.34 ETC 166.41 CLP 13.33

PLANETOCENTRIC CONIC

C3 74.127 VHL 8.610 DLA 21.28 RAL 27.53 RAD 6569.4 VEL 13.981 PTH 2.55 VHP 15.244 DPA -.05 RAP 3.74 ECC 2.2199
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 1 3271.05 -25.04 115.68 281.13 76.33 4 58 32 2671.0 -26.68 107.39
 90.00 22 11 20 4448.72 7.98 185.95 268.89 62.74 23 25 28 3848.7 4.26 179.24
 100.00 5 39 52 2961.98 -27.16 93.50 281.69 77.01 6 29 14 2362.0 -28.68 85.03
 100.00 23 18 10 4233.02 9.91 169.06 267.86 61.65 24 28 43 3633.0 6.04 162.41
 110.00 7 18 40 2652.89 -32.47 71.35 283.01 78.67 8 2 53 2052.9 -33.69 62.32
 110.00 23 55 51 4114.87 14.62 157.35 265.10 58.75 25 4 26 3514.9 10.37 150.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6647 TRA-1.6747 TC3 -.1470 BAU .1532 SGT 1300.1 SGR 458.5 SG3 69.8 ST 569.6 SR 430.5 SS 517.5
 RDE -.6437 RRA .1975 RC3 -.0480 FAU .01685 RRT .0699 RRF -.0716 RTF -.8014 CRT .7109 CRS .8149 CST .9861
 FDE .5125 FRA .9094 FC3 -.1967 BSP 3932 SGB 1378.6 R23 -.0077 R13 -.8015 LSA 841.9 MSA 261.9 SSA 15.4
 BDE .9253 BRA 1.6863 BC3 .1546 FSP -172 SG1 1300.5 SG2 457.2 THA 1.61 EL1 665.3 EL2 259.2 ALF 34.12

LAUNCH DATE DEC 22 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 209.848

RL 147.16 LAL .00 LOL 90.22 VL 23.956 GAL 10.48 AZL 86.61 MCA 83.13 SMA 107.91 ECC .40124 INC 3.3938 V1 30.275
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.150 GAP -23.66 AZP 89.59 TAL 163.52 TAP 246.64 RCA 64.61 APO 151.21 V2 35.198
 RC 47.437 GL 9.77 GP 1.80 ZAL 57.11 ZAP 12.03 ETS 189.58 ZAE 157.18 ETE 203.75 ZAC 99.06 ETC 166.38 CLP 11.90

PLANETOCENTRIC CONIC

C3 67.576 VHL 8.220 DLA 21.89 RAL 27.86 RAD 6569.3 VEL 13.745 PTH 2.51 VHP 14.583 DPA .77 RAP 5.34 ECC 2.1121
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 34 3277.30 -24.94 116.11 279.97 76.13 4 52 11 2677.3 -26.60 107.84
 90.00 22 20 24 4398.82 6.41 183.12 268.13 62.36 23 33 43 3798.8 2.66 176.44
 100.00 5 34 22 2965.16 -27.11 93.73 280.55 76.90 6 23 47 2365.2 -28.64 85.26
 100.00 23 26 17 4186.20 8.38 166.42 267.06 61.20 24 36 3 3586.2 4.47 159.82
 110.00 7 14 50 2650.87 -32.49 71.19 281.89 78.75 7 59 0 2050.9 -33.70 62.17
 110.00 0 6 14 4073.26 13.14 155.04 264.23 58.15 1 14 7 3473.3 8.83 148.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6679 TRA-1.6648 TC3 -.1433 BAU .1375 SGT 1355.1 SGR 455.7 SG3 76.0 ST 597.9 SR 429.0 SS 540.8
 RDE -.6127 RRA .1793 RC3 -.0513 FAU .01748 RRT .0814 RRF -.0832 RTF -.8138 CRT .7161 CRS .8190 CST .9862
 FDE .5355 FRA .9395 FC3 -.2240 BSP 4146 SGB 1429.6 R23 -.0086 R13 -.8140 LSA 874.8 MSA 261.8 SSA 15.6
 BDE .9064 BRA 1.6745 BC3 .1522 FSP -190 SG1 1355.6 SG2 453.9 THA 1.77 EL1 688.4 EL2 260.1 ALF 32.36

LAUNCH DATE DEC 22 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 24.268 GAL 9.97 AZL 86.65 MCA 86.36 SMA 109.25 ECC .38308 INC 3.3477 V1 30.275
 RP 107.69 LAP 3.34 LOP 176.57 VP 35.354 GAP -22.51 AZP 89.79 TAL 163.10 TAP 249.46 RCA 67.40 APO 151.10 V2 35.189
 RC 46.274 GL 10.24 GP 1.90 ZAL 56.73 ZAP 10.63 ETS 191.37 ZAE 159.30 ETE 206.29 ZAC 100.78 ETC 166.33 CLP 10.46

PLANETOCENTRIC CONIC
 C3 61.642 VML 7.851 DLA 22.49 RAL 28.12 RAD 6569.1 VEL 13.528 PTH 2.47 VMP 13.944 DPA 1.61 RAP 6.94 ECC 2.0145
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 40 3283.67 -24.83 116.55 278.71 75.94 4 45 24 2683.7 -26.52 108.29
 90.00 22 29 23 4348.27 4.81 180.27 267.32 62.06 23 41 51 3748.3 1.03 173.62
 100.00 5 28 31 2968.18 -27.06 93.94 279.31 76.80 6 17 59 2368.2 -28.61 85.48
 100.00 23 34 13 4138.99 6.82 163.79 266.22 60.83 24 43 12 3539.0 2.88 157.21
 110.00 7 10 44 2648.40 -32.53 71.01 280.67 78.86 7 54 52 2048.4 -33.72 61.98
 110.00 0 12 26 4031.54 11.63 152.75 263.32 57.63 1 19 37 3431.5 7.27 146.36

DIFFERENTIAL CORRECTIONS
 TOE -.6721 TRA-1.6538 TC3 -.1377 BAU .1220 SGT 1412.0 SGR 452.1 SG3 82.7 ST 627.8 SR 426.9 SS 565.5
 RDE -.5826 RRA .1615 RC3 -.0545 FAU .01819 RRT .0946 RRF -.0963 RTF -.8255 CRT .7222 CRS .8236 CST .9863
 FDE .5603 FRA .9711 FC3 -.2554 BSP 4356 SGB 1482.6 R23 -.0094 R13 -.8257 LSA 909.9 MSA 260.8 SSA 15.7
 BOE .8895 BRA 1.6617 BC3 .1481 FSP -210 SG1 1412.7 SG2 449.8 THA 1.93 EL1 713.4 EL2 259.9 ALF 30.65

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 22 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 24.560 GAL 9.48 AZL 86.70 MCA 89.59 SMA 110.55 ECC .36582 INC 3.3019 V1 30.275
 RP 107.72 LAP 3.30 LOP 179.81 VP 35.546 GAP -21.41 AZP 89.98 TAL 162.72 TAP 252.32 RCA 70.11 APO 150.99 V2 35.179
 RC 45.244 GL 10.72 GP 2.01 ZAL 56.41 ZAP 9.24 ETS 193.75 ZAE 161.54 ETE 209.47 ZAC 102.48 ETC 166.25 CLP 9.03

PLANETOCENTRIC CONIC
 C3 56.267 VML 7.501 DLA 23.08 RAL 28.32 RAD 6569.0 VEL 13.328 PTH 2.44 VMP 13.327 DPA 2.45 RAP 8.53 ECC 1.9260
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 21 3290.27 -24.72 117.00 277.35 75.74 4 38 11 2690.3 -26.44 108.75
 90.00 22 38 18 4297.12 3.17 177.40 266.47 61.85 23 49 55 3697.1 -.62 170.77
 100.00 5 22 20 2971.12 -27.02 94.15 277.98 76.70 6 11 51 2371.1 -28.58 85.69
 100.00 23 42 0 4091.50 5.24 161.15 265.33 60.53 24 50 12 3491.5 1.27 154.61
 110.00 7 6 24 2645.55 -32.56 70.80 279.35 78.98 7 50 29 2045.6 -33.74 61.76
 110.00 0 18 22 3989.83 10.10 150.49 262.37 57.17 1 24 52 3389.8 5.70 144.15

DIFFERENTIAL CORRECTIONS
 TOE -.6766 TRA-1.6410 TC3 -.1293 BAU .1065 SGT 1470.0 SGR 447.8 SG3 90.1 ST 659.0 SR 424.3 SS 591.6
 RDE -.5534 RRA .1443 RC3 -.0576 FAU .01897 RRT .1094 RRF -.1112 RTF -.8366 CRT .7290 CRS .8286 CST .9866
 FDE .5873 FRA 1.0042 FC3 -.2918 BSP 4569 SGB 1536.7 R23 -.0105 R13 -.8368 LSA 947.0 MSA 259.1 SSA 15.8
 BOE .8741 BRA 1.6473 BC3 .1415 FSP -231 SG1 1470.9 SG2 444.8 THA 2.10 EL1 739.8 EL2 258.7 ALF 29.02

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 22 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 24.832 GAL 9.01 AZL 86.74 MCA 92.83 SMA 111.80 ECC .34943 INC 3.2561 V1 30.275
 RP 107.75 LAP 3.25 LOP 183.05 VP 35.724 GAP -20.35 AZP 90.16 TAL 162.39 TAP 255.22 RCA 72.73 APO 150.86 V2 35.169
 RC 44.357 GL 11.20 GP 2.13 ZAL 56.16 ZAP 7.87 ETS 197.02 ZAE 163.84 ETE 213.60 ZAC 104.18 ETC 166.14 CLP 7.58

PLANETOCENTRIC CONIC
 C3 51.399 VML 7.169 DLA 23.64 RAL 28.45 RAD 6568.9 VEL 13.144 PTH 2.40 VMP 12.731 DPA 3.31 RAP 10.11 ECC 1.8459
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 35 34 3297.24 -24.61 117.48 275.91 75.53 4 30 31 2697.2 -26.36 109.24
 90.00 22 47 10 4245.41 1.50 174.51 265.59 61.72 23 57 56 3645.4 -2.29 167.89
 100.00 5 15 49 2974.04 -26.97 94.35 276.56 76.60 6 5 23 2374.0 -28.55 85.90
 100.00 23 49 37 4043.84 3.64 158.52 264.41 60.31 24 57 1 3443.8 -.34 151.99
 110.00 7 1 50 2642.36 -32.61 70.56 277.95 79.12 7 45 52 2042.4 -33.76 61.51
 110.00 0 24 1 3948.28 8.55 148.26 261.39 56.78 1 29 49 3348.3 4.12 141.97

DIFFERENTIAL CORRECTIONS
 TOE -.6814 TRA-1.6262 TC3 -.1177 BAU .0909 SGT 1529.0 SGR 442.8 SG3 98.3 ST 691.2 SR 421.1 SS 619.2
 RDE -.5252 RRA .1276 RC3 -.0603 FAU .01984 RRT .1259 RRF -.1279 RTF -.8471 CRT .7366 CRS .8339 CST .9868
 FDE .6164 FRA 1.0390 FC3 -.3342 BSP 4795 SGB 1591.8 R23 -.0117 R13 -.8473 LSA 986.1 MSA 256.5 SSA 15.9
 BOE .8603 BRA 1.6312 BC3 .1323 FSP -255 SG1 1530.1 SG2 439.0 THA 2.28 EL1 767.7 EL2 256.4 ALF 27.49

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 22 1968

FLIGHT TIME 100.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 25.085 GAL 8.55 AZL 86.79 MCA 96.06 SMA 113.00 ECC .33390 INC 3.2102 V1 30.275
 RP 107.79 LAP 3.19 LOP 186.28 VP 35.890 GAP -19.33 AZP 90.34 TAL 162.10 TAP 258.16 RCA 75.27 APO 150.73 V2 35.158
 RC 43.625 GL 11.69 GP 2.27 ZAL 55.97 ZAP 6.53 ETS 201.75 ZAE 166.17 ETE 219.15 ZAC 105.85 ETC 166.01 CLP 6.12

PLANETOCENTRIC CONIC
 C3 46.994 VML 6.855 DLA 24.19 RAL 28.53 RAD 6568.8 VEL 12.975 PTH 2.37 VMP 12.155 DPA 4.16 RAP 11.67 ECC 1.7734
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 27 20 3304.68 -24.48 117.98 274.38 75.30 4 22 25 2704.7 -26.26 109.77
 90.00 22 56 0 4193.22 -.18 171.60 264.68 61.68 24 5 53 3593.2 -3.96 164.97
 100.00 5 8 58 2976.99 -26.93 94.56 275.06 76.50 5 58 35 2377.0 -28.52 86.12
 100.00 0 0 58 3996.14 2.02 155.90 263.45 60.17 1 7 35 3396.1 -1.96 149.37
 110.00 6 57 3 2638.86 -32.65 70.29 276.48 79.27 7 41 2 2038.9 -33.79 61.24
 110.00 0 29 23 3907.04 7.01 146.06 260.37 56.46 1 34 30 3307.0 2.55 139.81

DIFFERENTIAL CORRECTIONS
 TOE -.6870 TRA-1.6100 TC3 -.1032 BAU .0758 SGT 1589.3 SGR 437.2 SG3 107.3 ST 725.0 SR 417.5 SS 648.5
 RDE -.4982 RRA .1114 RC3 -.0627 FAU .02081 RRT .1448 RRF -.1469 RTF -.8569 CRT .7451 CRS .8398 CST .9872
 FDE .6483 FRA 1.0759 FC3 -.3834 BSP 5012 SGB 1648.3 R23 -.0130 R13 -.8571 LSA 1027.6 MSA 253.2 SSA 16.0
 BOE .8486 BRA 1.6139 BC3 .1207 FSP -281 SG1 1590.7 SG2 432.3 THA 2.46 EL1 797.4 EL2 253.1 ALF 26.04

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 22 1968

FLIGHT TIME 102.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 243.327

RL 147.16 LAL .00 LOL 90.22 VL 25.320 GAL 8.12 AZL 86.84 MCA 99.28 SMA 114.15 ECC .31921 INC 3.1637 V1 30.275
 RP 107.82 LAP 3.12 LOP 189.52 VP 36.043 GAP -18.35 AZP 90.51 TAL 161.85 TAP 261.14 RCA 77.71 APO 150.59 V2 35.147
 RC 43.055 GL 12.18 GP 2.42 ZAL 55.84 ZAP 5.24 ETS 209.02 ZAE 168.44 ETE 226.93 ZAC 107.50 ETC 165.84 CLP 4.65

PLANETOCENTRIC CONIC

C3 43.007 VHL 6.558 DLA 24.72 RAL 28.54 RAD 6568.6 VEL 12.821 PTH 2.33 VHP 11.599 DPA 5.02 RAP 13.21 ECC 1.7078
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 18 38 3312.72 -24.34 118.53 272.78 75.06 4 13 50 2712.7 -26.16 110.33
 90.00 23 4 47 4140.62 -1.88 168.67 263.73 61.74 24 13 48 3540.6 -5.64 162.01
 100.00 5 1 49 2980.01 -26.88 94.77 273.49 76.40 5 51 29 2380.0 -28.48 86.33
 100.00 0 8 12 3948.56 .41 153.28 262.45 60.11 1 14 1 3348.6 -3.57 146.76
 110.00 6 52 5 2635.06 -32.70 70.01 274.93 79.43 7 36 0 2035.1 -33.81 60.95
 110.00 0 34 26 3866.28 5.47 143.91 259.31 56.20 1 38 53 3266.3 .99 137.68

DIFFERENTIAL CORRECTIONS

TOE -.6929 TRA-1.5921 TC3 -.0846 BAU .0612
 RDE -.4722 RRA .0957 RC3 -.0646 FAU .02189
 FDE .6831 FRA 1.1150 FC3 -.4406 BSP 5235
 BDE .8385 BRA 1.5950 BC3 .1064 FSP -311

MID-COURSE EXECUTION ACCURACY

SGT 1650.3 SGR 431.1 SG3 117.2
 RRT .1661 RRF -.1686 RTF -.8663
 SGB 1705.7 R23 -.0146 R13 -.8665
 SGI 1652.0 SG2 424.7 TMA 2.66

ORBIT DETERMINATION ACCURACY

ST 759.9 SR 413.5 SS 679.7
 CRT .7544 CRS .8461 CST .9876
 LSA 1071.5 MSA 249.1 SSA 16.0
 EL1 828.5 EL2 248.9 ALF 24.70

LAUNCH DATE DEC 22 1968

FLIGHT TIME 104.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 250.073

RL 147.16 LAL .00 LOL 90.22 VL 25.539 GAL 7.71 AZL 86.88 MCA 102.51 SMA 115.25 ECC .30533 INC 3.1164 V1 30.275
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.186 GAP -17.41 AZP 90.68 TAL 161.65 TAP 264.16 RCA 80.06 APO 150.44 V2 35.135
 RC 42.657 GL 12.66 GP 2.59 ZAL 55.78 ZAP 4.08 ETS 220.97 ZAE 170.49 ETE 238.26 ZAC 109.12 ETC 165.65 CLP 3.16

PLANETOCENTRIC CONIC

C3 39.401 VHL 6.277 DLA 25.22 RAL 28.49 RAD 6568.5 VEL 12.679 PTH 2.30 VHP 11.061 DPA 5.89 RAP 14.73 ECC 1.6484
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 9 28 3321.44 -24.18 119.12 271.11 74.80 4 4 49 2721.4 -26.04 110.95
 90.00 23 13 33 4087.70 -3.58 165.71 262.74 61.89 24 21 41 3487.7 -7.31 159.02
 100.00 4 54 25 2983.07 -26.83 94.98 271.86 76.30 5 44 8 2383.1 -28.45 86.55
 100.00 0 15 13 3901.30 -1.19 150.69 261.42 60.13 1 20 14 3301.3 -5.16 144.15
 110.00 6 46 58 2630.93 -32.75 69.69 273.32 79.61 7 30 49 2030.9 -33.84 60.63
 110.00 0 39 9 3826.20 3.95 141.80 258.22 56.02 1 42 55 3226.2 -.54 135.59

DIFFERENTIAL CORRECTIONS

TOE -.6994 TRA-1.5728 TC3 -.0621 BAU .0476
 RDE -.4475 RRA .0804 RC3 -.0657 FAU .02309
 FDE .7211 FRA 1.1569 FC3 -.5073 BSP 5453
 BDE .8303 BRA 1.5748 BC3 .0904 FSP -343

MID-COURSE EXECUTION ACCURACY

SGT 1712.2 SGR 424.5 SG3 128.2
 RRT .1905 RRF -.1931 RTF -.8750
 SGB 1764.0 R23 -.0163 R13 -.8752
 SGI 1714.2 SG2 416.2 TMA 2.87

ORBIT DETERMINATION ACCURACY

ST 796.3 SR 409.2 SS 712.8
 CRT .7647 CRS .8529 CST .9881
 LSA 1117.9 MSA 244.3 SSA 16.1
 EL1 861.5 EL2 243.7 ALF 23.44

LAUNCH DATE DEC 22 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 256.828

RL 147.16 LAL .00 LOL 90.22 VL 25.742 GAL 7.31 AZL 86.93 MCA 105.73 SMA 116.31 ECC .29226 INC 3.0679 V1 30.275
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.318 GAP -16.49 AZP 90.83 TAL 161.50 TAP 267.23 RCA 82.31 APO 150.30 V2 35.123
 RC 42.436 GL 13.14 GP 2.78 ZAL 55.78 ZAP 3.23 ETS 241.09 ZAE 172.07 ETE 254.80 ZAC 110.71 ETC 165.41 CLP 1.65

PLANETOCENTRIC CONIC

C3 36.140 VHL 6.012 DLA 25.69 RAL 28.38 RAD 6568.4 VEL 12.550 PTH 2.27 VHP 10.543 DPA 6.77 RAP 16.22 ECC 1.5948
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 59 51 3330.90 -24.01 119.77 269.38 74.53 3 55 22 2730.9 -25.91 111.61
 90.00 23 22 17 4034.58 -5.28 162.73 261.73 62.14 24 29 32 3434.6 -8.97 155.99
 100.00 4 46 47 2986.13 -26.78 95.20 270.18 76.19 5 36 34 2386.1 -28.41 86.78
 100.00 0 21 58 3854.58 -2.77 148.13 260.35 60.22 1 26 13 3254.6 -6.72 141.56
 110.00 6 41 45 2626.45 -32.80 69.36 271.66 79.80 7 25 31 2026.5 -33.86 60.28
 110.00 0 43 30 3787.03 2.45 139.75 257.09 55.89 1 46 37 3187.0 -2.04 133.55

DIFFERENTIAL CORRECTIONS

TOE -.7053 TRA-1.5514 TC3 -.0352 BAU .0361
 RDE -.4240 RRA .0655 RC3 -.0659 FAU .02442
 FDE .7626 FRA 1.2016 FC3 -.5851 BSP 5679
 BDE .8229 BRA 1.5528 BC3 .0747 FSP -380

MID-COURSE EXECUTION ACCURACY

SGT 1773.7 SGR 417.6 SG3 140.3
 RRT .2178 RRF -.2210 RTF -.8831
 SGB 1822.2 R23 -.0185 R13 -.8834
 SGI 1776.1 SG2 407.0 TMA 3.10

ORBIT DETERMINATION ACCURACY

ST 833.2 SR 404.6 SS 747.8
 CRT .7754 CRS .8601 CST .9886
 LSA 1166.1 MSA 238.9 SSA 16.2
 EL1 895.2 EL2 237.8 ALF 22.29

LAUNCH DATE DEC 22 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 263.587

RL 147.16 LAL .00 LOL 90.22 VL 25.930 GAL 6.93 AZL 86.98 MCA 108.96 SMA 117.31 ECC .27996 INC 3.0178 V1 30.275
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.441 GAP -15.61 AZP 90.98 TAL 161.39 TAP 270.34 RCA 84.47 APO 150.15 V2 35.111
 RC 42.394 GL 13.60 GP 2.99 ZAL 55.83 ZAP 3.00 ETS 269.85 ZAE 172.81 ETE 276.71 ZAC 112.26 ETC 165.15 CLP .11

PLANETOCENTRIC CONIC

C3 33.192 VHL 5.761 DLA 26.13 RAL 28.21 RAD 6568.3 VEL 12.432 PTH 2.25 VHP 10.043 DPA 7.65 RAP 17.67 ECC 1.5463
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 49 49 3341.12 -23.83 120.46 267.60 74.23 3 45 30 2741.1 -25.76 112.32
 90.00 23 31 0 3981.41 -6.96 159.73 260.69 62.48 24 37 21 3381.4 -10.59 152.93
 100.00 4 39 2 2989.05 -26.73 95.40 268.45 76.10 5 28 51 2389.0 -28.38 86.99
 100.00 0 28 24 3808.71 -4.32 145.60 259.25 60.39 1 31 53 3208.7 -8.23 139.00
 110.00 6 36 30 2621.52 -32.86 68.98 269.95 80.01 7 20 11 2021.5 -33.89 59.90
 110.00 0 47 26 3749.00 1.00 137.77 255.94 55.83 1 49 55 3149.0 -3.49 131.56

DIFFERENTIAL CORRECTIONS

TOE -.7118 TRA-1.5194 TC3 -.0009 BAU .0288
 RDE -.4019 RRA .0511 RC3 -.0648 FAU .02591
 FDE .8084 FRA 1.2499 FC3 -.6759 BSP 5937
 BDE .8174 BRA 1.5203 BC3 .0648 FSP -420

MID-COURSE EXECUTION ACCURACY

SGT 1825.9 SGR 410.5 SG3 153.8
 RRT .2504 RRF -.2528 RTF -.8916
 SGB 1871.5 R23 -.0190 R13 -.8920
 SGI 1828.9 SG2 396.8 TMA 3.38

ORBIT DETERMINATION ACCURACY

ST 869.5 SR 400.0 SS 785.5
 CRT .7887 CRS .8677 CST .9895
 LSA 1216.1 MSA 231.8 SSA 16.2
 EL1 929.0 EL2 230.2 ALF 21.32

LAUNCH DATE DEC 22 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

RL 147.16 LAL .00 LOL 90.22 VL 26.105 GAL 6.58 AZL 87.03 MCA 112.18 SMA 118.26 ECC .26841 INC 2.9659 V1 30.275
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.553 GAP -14.77 AZP 91.12 TAL 161.32 TAP 273.50 RCA 86.52 APO 150.00 V2 35.099
 RC 42.534 GL 14.06 GP 3.24 ZAL 55.94 ZAP 3.55 ETS 296.27 ZAE 172.47 ETE 299.54 ZAC 113.76 ETC 164.84 CLP -1.46

PLANETOCENTRIC CONIC

C3 30.529 VHL 5.525 DLA 26.54 RAL 28.00 RAD 6568.2 VEL 12.325 PTH 2.22 VHP 9.560 DPA 8.54 RAP 19.09 ECC 1.5024
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 39 26 3352.03 -23.62 121.19 265.78 73.92 3 35 18 2752.0 -25.60 113.08
 90.00 23 39 38 3928.40 -8.62 156.71 259.62 62.92 24 45 7 3328.4 -12.18 149.85
 100.00 4 31 14 2991.61 -26.69 95.58 266.69 76.01 5 21 6 2391.6 -28.35 87.17
 100.00 0 34 27 3764.05 -5.82 143.13 258.11 60.63 1 37 11 3164.1 -9.69 136.48
 110.00 6 31 16 2616.02 -32.93 68.57 268.20 80.25 7 14 52 2016.0 -33.92 59.47
 110.00 0 50 55 3712.41 -1.40 135.86 254.75 55.82 1 52 47 3112.4 -4.88 129.64

DIFFERENTIAL CORRECTIONS

TDE -.7184 TRA-1.5046 TC3 .0348 BAU .0292 SGT 1896.8 SGR 403.4 SG3 168.8 ST 910.3 SR 395.4 SS 825.3
 RDE -.3811 RRA .0366 RC3 -.0624 FAU .02758 RRT .2846 RRF -.2896 RTF -.8982 CRT .7994 CRS .8758 CST .9897
 FDE .8585 FRA 1.3022 FC3 -.7821 BSP 6125 SGB 1839.2 R23 -.0239 R13 -.8986 LSA 1270.7 MSA 226.4 SSA 16.2
 BOE .8132 BRA 1.5050 BC3 .0714 FSP -465 SG1 1900.4 SG2 386.0 THA 3.61 EL1 967.0 EL2 223.7 ALF 20.28

LAUNCH DATE DEC 22 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 13 1969

HELIOCENTRIC CONIC

RL 147.16 LAL .00 LOL 90.22 VL 26.267 GAL 6.23 AZL 87.09 MCA 115.39 SMA 119.16 ECC .25759 INC 2.9115 V1 30.275
 RP 108.01 LAP 2.63 LOP 205.64 VP 36.657 GAP -13.95 AZP 91.25 TAL 161.30 TAP 276.69 RCA 88.46 APO 149.85 V2 35.086
 RC 42.853 GL 14.48 GP 3.51 ZAL 56.10 ZAP 4.66 ETS 313.23 ZAE 171.22 ETE 317.83 ZAC 115.22 ETC 164.48 CLP -3.07

PLANETOCENTRIC CONIC

C3 28.122 VHL 5.303 DLA 26.91 RAL 27.73 RAD 6568.1 VEL 12.227 PTH 2.20 VHP 9.095 DPA 9.45 RAP 20.47 ECC 1.4628
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 48 3363.43 -23.41 121.96 263.92 73.59 3 24 51 2763.4 -25.43 113.87
 90.00 23 48 9 3875.90 -10.23 153.70 258.52 63.45 24 52 45 3275.9 -13.71 146.75
 100.00 4 23 33 2993.49 -26.66 95.71 264.90 75.95 5 13 27 2393.5 -28.33 87.31
 100.00 0 40 0 3721.08 -7.25 140.74 256.93 60.92 1 42 1 3121.1 -11.07 134.04
 110.00 6 28 11 2609.78 -33.00 68.09 266.42 80.52 7 9 40 2009.8 -33.95 58.99
 110.00 0 53 52 3677.56 -1.73 134.04 253.53 55.86 1 55 10 3077.6 -6.20 127.81

DIFFERENTIAL CORRECTIONS

TDE -.7245 TRA-1.4794 TC3 .0781 BAU .0366 SGT 1957.6 SGR 396.7 SG3 185.5 ST 949.7 SR 391.1 SS 867.7
 RDE -.3619 RRA .0224 RC3 -.0580 FAU .02944 RRT .3249 RRF -.3312 RTF -.9050 CRT .8123 CRS .8843 CST .9902
 FDE .9136 FRA 1.3592 FC3 -.9063 BSP 6336 SGB 1997.4 R23 -.0275 R13 -.9054 LSA 1326.4 MSA 219.5 SSA 16.2
 BOE .8099 BRA 1.4795 BC3 .0973 FSP -515 SG1 1962.0 SG2 374.4 THA 3.91 EL1 1004.2 EL2 215.7 ALF 19.43

LAUNCH DATE DEC 22 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

RL 147.16 LAL .00 LOL 90.22 VL 26.417 GAL 5.91 AZL 87.15 MCA 118.61 SMA 120.01 ECC .24746 INC 2.8543 V1 30.275
 RP 108.05 LAP 2.51 LOP 208.85 VP 36.752 GAP -13.16 AZP 91.37 TAL 161.32 TAP 279.93 RCA 90.31 APO 149.70 V2 35.073
 RC 43.347 GL 14.88 GP 3.82 ZAL 56.31 ZAP 6.07 ETS 323.17 ZAE 169.47 ETE 330.67 ZAC 116.61 ETC 164.08 CLP -4.72

PLANETOCENTRIC CONIC

C3 25.948 VHL 5.094 DLA 27.23 RAL 27.42 RAD 6568.0 VEL 12.138 PTH 2.18 VHP 8.647 DPA 10.36 RAP 21.79 ECC 1.4270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 18 4 3374.89 -23.18 122.72 262.05 73.27 3 14 19 2774.9 -25.26 114.66
 90.00 0 0 19 3824.47 -11.78 150.72 257.39 64.06 1 4 4 3224.5 -15.17 143.68
 100.00 4 16 10 2994.19 -26.65 95.76 263.10 75.93 5 6 4 2394.2 -28.32 87.36
 100.00 0 44 55 3680.40 -8.59 138.46 255.71 61.26 1 46 15 3080.4 -12.36 131.70
 110.00 6 21 19 2602.55 -33.08 67.54 264.62 80.84 7 4 42 2002.5 -33.99 58.42
 110.00 0 56 15 3644.81 -2.98 132.33 252.27 55.93 1 56 59 3044.8 -7.43 126.07

DIFFERENTIAL CORRECTIONS

TDE -.7279 TRA-1.4503 TC3 .1302 BAU .0485 SGT 2013.3 SGR 390.7 SG3 204.0 ST 986.5 SR 387.0 SS 911.7
 RDE -.3441 RRA .0083 RC3 -.0513 FAU .03157 RRT .3697 RRF -.3780 RTF -.9116 CRT .8253 CRS .8931 CST .9908
 FDE .9730 FRA 1.4204 FC3 -1.0532 BSP 6606 SGB 2050.9 R23 -.0320 R13 -.9121 LSA 1381.6 MSA 212.3 SSA 16.2
 BOE .8051 BRA 1.4503 BC3 .1399 FSP -573 SG1 2018.7 SG2 362.0 THA 4.24 EL1 1039.2 EL2 207.5 ALF 18.72

LAUNCH DATE DEC 22 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

RL 147.16 LAL .00 LOL 90.22 VL 26.555 GAL 5.60 AZL 87.21 MCA 121.82 SMA 120.81 ECC .23802 INC 2.7934 V1 30.275
 RP 108.09 LAP 2.37 LOP 212.07 VP 36.839 GAP -12.40 AZP 91.47 TAL 161.38 TAP 283.20 RCA 92.05 APO 149.56 V2 35.060
 RC 44.011 GL 15.23 GP 4.18 ZAL 56.56 ZAP 7.65 ETS 329.22 ZAE 167.51 ETE 339.60 ZAC 117.93 ETC 163.63 CLP -6.42

PLANETOCENTRIC CONIC

C3 23.984 VHL 4.897 DLA 27.50 RAL 27.07 RAD 6568.0 VEL 12.057 PTH 2.16 VHP 8.216 DPA 11.30 RAP 23.05 ECC 1.3947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 7 35 3385.54 -22.97 123.43 260.17 72.97 3 4 1 2785.5 -25.09 115.40
 90.00 0 8 2 3775.06 -13.23 147.81 256.22 64.73 1 10 57 3175.1 -16.53 140.69
 100.00 4 9 20 2993.05 -26.67 95.68 261.30 75.96 4 59 13 2393.1 -28.33 87.27
 100.00 0 48 58 3642.78 -9.81 136.34 254.45 61.62 1 49 41 3042.8 -13.53 129.52
 110.00 6 16 50 2594.04 -33.17 66.90 262.82 81.21 7 0 4 1994.0 -34.03 57.76
 110.00 0 57 57 3614.56 -4.13 130.75 250.99 56.04 1 58 12 3014.6 -8.56 124.46

DIFFERENTIAL CORRECTIONS

TDE -.7325 TRA-1.4225 TC3 .1847 BAU .0607 SGT 2070.6 SGR 386.0 SG3 224.8 ST 1025.3 SR 383.8 SS 959.1
 RDE -.3280 RRA -.0061 RC3 -.0418 FAU .03390 RRT .4211 RRF -.4313 RTF -.9175 CRT .8393 CRS .9022 CST .9914
 FDE 1.0389 FRA 1.4888 FC3 -1.2235 BSP 6809 SGB 2106.3 R23 -.0371 R13 -.9181 LSA 1440.9 MSA 204.8 SSA 16.1
 BOE .8026 BRA 1.4225 BC3 .1894 FSP -636 SG1 2077.1 SG2 349.0 THA 4.62 EL1 1076.6 EL2 198.7 ALF 18.08

LAUNCH DATE DEC 22 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 297.349

RL 147.16 LAL .00 LOL 90.22 VL 26.683 GAL 5.32 AZL 87.27 MCA 125.03 SMA 121.56 ECC .22922 INC 2.7282 V1 30.275
 RP 108.13 LAP 2.23 LOP 215.28 VP 36.918 GAP -11.66 AZP 91.57 TAL 161.48 TAP 286.51 RCA 93.69 APO 149.42 V2 35.047
 RC 44.838 GL 15.57 GP 4.59 ZAL 56.85 ZAP 9.36 ETS 333.09 ZAE 165.52 ETE 346.10 ZAC 119.17 ETC 163.12 CLP -8.17

PLANETOCENTRIC CONIC

C3 22.210 VHL 4.713 CLA 27.71 RAL 26.69 RAD 6567.9 VEL 11.983 PTH 2.14 VHP 7.801 DPA 12.26 RAP 24.24 ECC 1.3655
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 57 54 3393.69 -22.81 123.97 258.32 72.75 2 54 28 2793.7 -24.96 115.96
 90.00 0 14 43 3729.45 -14.54 145.10 254.99 65.43 1 16 52 3129.5 -17.73 137.89
 100.00 4 3 23 2989.17 -26.73 95.41 259.52 76.09 4 53 12 2389.2 -28.38 86.99
 100.00 0 51 55 3609.20 -10.89 134.43 253.14 61.99 1 52 4 3009.2 -14.55 127.56
 110.00 6 12 53 2583.89 -33.27 66.12 261.01 81.66 6 55 57 1983.9 -34.07 56.97
 110.00 0 58 54 3587.25 -5.17 129.32 249.68 56.16 1 58 42 2987.2 -9.58 123.00

DIFFERENTIAL CORRECTIONS

TDE -.7362 TRA-1.3939 TC3 .2450 BAU .0732
 RDE -.3137 RRA -.0209 RC3 -.0290 FAU .03651
 FDE 1.1112 FRA 1.5646 FC3-1.4231 BSP 7003
 BDE .8003 BRA 1.3941 BC3 .2467 FSP -707

MID-COURSE EXECUTION ACCURACY

SGT 2125.7 SGR 383.5 SG3 248.0
 RRT .4785 RRF -.4908 RTF -.9229
 SGB 2160.0 R23 -.0432 R13 -.9236
 SGI 2133.8 SG2 335.4 TMA 5.06

ORBIT DETERMINATION ACCURACY

ST 1063.5 SR 381.5 SS 1009.2
 CRT .8536 CRS .9116 CST .9920
 LSA 1502.0 MSA 197.0 SSA 16.0
 EL1 1113.8 EL2 189.8 ALF 17.55

LAUNCH DATE DEC 22 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 304.077

RL 147.16 LAL .00 LOL 90.22 VL 26.800 GAL 5.04 AZL 87.34 MCA 128.24 SMA 122.26 ECC .22105 INC 2.6577 V1 30.275
 RP 108.17 LAP 2.09 LOP 218.48 VP 36.991 GAP -10.95 AZP 91.65 TAL 161.61 TAP 289.84 RCA 95.24 APO 149.29 V2 35.033
 RC 45.818 GL 15.83 GP 5.07 ZAL 57.17 ZAP 11.19 ETS 335.65 ZAE 163.61 ETE 351.14 ZAC 120.32 ETC 162.54 CLP -9.99

PLANETOCENTRIC CONIC

C3 20.605 VHL 4.539 CLA 27.85 RAL 26.30 RAD 6567.8 VEL 11.916 PTH 2.12 VHP 7.402 DPA 13.24 RAP 25.35 ECC 1.3391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 1 3396.31 -22.76 124.15 256.53 72.68 2 46 37 2796.3 -24.91 116.14
 90.00 0 19 27 3690.73 -15.62 142.78 253.69 66.08 1 20 58 3090.7 -18.72 135.47
 100.00 3 58 42 2981.46 -26.85 94.87 257.78 76.35 4 48 23 2381.5 -28.47 86.44
 100.00 0 53 27 3580.81 -11.79 132.81 251.78 62.33 1 53 8 2980.8 -15.40 125.88
 110.00 6 9 38 2571.65 -33.39 65.19 259.21 82.20 6 52 30 1971.7 -34.11 56.02
 110.00 0 59 0 3563.38 -6.07 128.06 248.35 56.30 1 58 23 2963.4 -10.46 121.71

DIFFERENTIAL CORRECTIONS

TDE -.7380 TRA-1.3640 TC3 .3108 BAU .0857
 RDE -.3013 RRA -.0363 RC3 -.0119 FAU .03943
 FDE 1.1898 FRA 1.6488 FC3-1.6566 BSP 7184
 BDE .7971 BRA 1.3645 BC3 .3110 FSP -786

MID-COURSE EXECUTION ACCURACY

SGT 2176.9 SGR 383.9 SG3 274.0
 RRT .5409 RRF -.5559 RTF -.9280
 SGB 2210.5 R23 -.0508 R13 -.9288
 SGI 2187.0 SG2 321.4 TMA 5.57

ORBIT DETERMINATION ACCURACY

ST 1099.6 SR 380.6 SS 1061.7
 CRT .8682 CRS .9212 CST .9926
 LSA 1563.7 MSA 189.1 SSA 15.9
 EL1 1149.5 EL2 180.7 ALF 17.16

LAUNCH DATE DEC 22 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 310.793

RL 147.16 LAL .00 LOL 90.22 VL 26.908 GAL 4.79 AZL 87.42 MCA 131.44 SMA 122.92 ECC .21348 INC 2.5807 V1 30.275
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.056 GAP -10.26 AZP 91.71 TAL 161.77 TAP 293.21 RCA 96.68 APO 149.16 V2 35.020
 RC 46.944 GL 16.01 GP 5.62 ZAL 57.50 ZAP 13.13 ETS 337.37 ZAE 161.83 ETE 355.28 ZAC 121.36 ETC 161.90 CLP -11.88

PLANETOCENTRIC CONIC

C3 19.154 VHL 4.377 CLA 27.91 RAL 25.89 RAD 6567.8 VEL 11.855 PTH 2.10 VHP 7.020 DPA 14.27 RAP 26.36 ECC 1.3152
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 45 23 3388.80 -22.91 123.65 254.84 72.88 2 41 52 2788.8 -25.04 115.62
 90.00 0 20 51 3663.51 -16.37 141.13 252.27 66.56 1 21 55 3063.5 -19.40 133.76
 100.00 3 55 43 2968.65 -27.06 93.97 256.08 76.78 4 45 11 2368.7 -28.61 85.51
 100.00 0 53 13 3558.89 -12.48 131.55 250.37 62.62 1 52 31 2958.9 -16.05 124.58
 110.00 6 7 18 2556.82 -33.52 64.05 257.42 82.86 6 49 55 1956.8 -34.14 54.86
 110.00 0 58 7 3543.50 -6.82 127.01 246.99 56.42 1 57 10 2943.5 -11.19 120.64

DIFFERENTIAL CORRECTIONS

TDE -.7380 TRA-1.3336 TC3 .3815 BAU .0977
 RDE -.2909 RRA -.0527 RC3 .0105 FAU .04272
 FDE 1.2751 FRA 1.7430 FC3-1.9307 BSP 7355
 BDE .7932 BRA 1.3346 BC3 .3817 FSP -875

MID-COURSE EXECUTION ACCURACY

SGT 2224.4 SGR 388.8 SG3 303.1
 RRT .6073 RRF -.6252 RTF -.9326
 SGB 2258.1 R23 -.0601 R13 -.9336
 SGI 2237.1 SG2 307.1 TMA 6.18

ORBIT DETERMINATION ACCURACY

ST 1133.4 SR 381.5 SS 1116.6
 CRT .8829 CRS .9309 CST .9931
 LSA 1626.1 MSA 181.1 SSA 15.8
 EL1 1183.6 EL2 171.6 ALF 16.92

LAUNCH DATE DEC 22 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 317.494

RL 147.16 LAL .00 LOL 90.22 VL 27.007 GAL 4.55 AZL 87.50 MCA 134.64 SMA 123.53 ECC .20649 INC 2.4959 V1 30.275
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.116 GAP -9.59 AZP 91.75 TAL 161.96 TAP 296.60 RCA 98.02 APO 149.04 V2 35.007
 RC 48.205 GL 16.12 GP 6.27 ZAL 57.86 ZAP 15.18 ETS 338.49 ZAE 160.22 ETE 358.92 ZAC 122.27 ETC 161.18 CLP -13.85

PLANETOCENTRIC CONIC

C3 17.840 VHL 4.224 CLA 27.87 RAL 25.49 RAD 6567.7 VEL 11.799 PTH 2.09 VHP 6.654 DPA 15.35 RAP 27.26 ECC 1.2936
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 45 27 3366.71 -23.34 122.17 253.29 73.50 2 41 33 2766.7 -25.38 114.10
 90.00 0 17 36 3652.27 -16.67 140.44 250.72 66.77 1 18 28 3052.3 -19.67 133.05
 100.00 3 54 52 2949.51 -27.35 92.62 254.44 77.44 4 44 1 2349.5 -28.80 84.12
 100.00 0 50 52 3544.70 -12.93 130.73 248.90 62.81 1 49 57 2944.7 -16.47 123.73
 110.00 6 6 6 2538.78 -33.66 62.66 255.66 83.67 6 48 25 1938.8 -34.17 53.45
 110.00 0 56 7 3528.20 -7.40 126.20 245.62 56.53 1 54 55 2928.2 -11.75 119.80

DIFFERENTIAL CORRECTIONS

TDE -.7325 TRA-1.2996 TC3 .4613 BAU .1104
 RDE -.2825 RRA -.0704 RC3 .0396 FAU .04645
 FDE 1.3649 FRA 1.8465 FC3-2.2544 BSP 7567
 BDE .7850 BRA 1.3015 BC3 .4630 FSP -979

MID-COURSE EXECUTION ACCURACY

SGT 2262.0 SGR 399.6 SG3 335.6
 RRT .6742 RRF -.6956 RTF -.9372
 SGB 2297.0 R23 -.0718 R13 -.9384
 SGI 2278.2 SG2 293.0 TMA 6.91

ORBIT DETERMINATION ACCURACY

ST 1159.9 SR 384.6 SS 1171.8
 CRT .8971 CRS .9404 CST .9936
 LSA 1684.0 MSA 173.2 SSA 15.5
 EL1 1211.1 EL2 162.7 ALF 16.88

LAUNCH DATE DEC 22 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 324.180

RL 147.16 LAL .00 LOL 90.22 VL 27.098 GAL 4.33 AZL 87.60 MCA 137.84 SMA 124.10 ECC .20004 INC 2.4012 V1 30.275
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.169 GAP -8.95 AZP 91.78 TAL 162.17 TAP 300.02 RCA 99.27 APO 148.92 V2 34.994
 RC 49.590 GL 16.11 GP 7.05 ZAL 58.21 ZAP 17.37 ETS 339.16 ZAE 158.79 ETE 2.31 ZAC 123.04 ETC 160.37 CLP -15.92

PLANETOCENTRIC CONIC

C3 16.647 VHL 4.080 DLA 27.73 RAL 25.11 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 6.305 DPA 16.51 RAP 28.02 ECC 1.2740
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 32 3329.13 -24.05 119.65 251.88 74.58 2 46 1 2729.1 -25.93 111.48
 90.00 0 9 29 3657.88 -16.52 140.78 249.06 66.67 1 10 27 3057.9 -19.54 133.41
 100.00 3 56 32 2922.93 -27.75 90.74 252.86 78.36 4 45 15 2322.9 -29.05 82.19
 100.00 0 46 10 3539.31 -13.09 130.41 247.39 62.89 1 45 9 2939.3 -16.62 123.40
 110.00 6 6 17 2516.86 -33.81 60.97 253.92 84.67 6 48 14 1916.9 -34.18 51.74
 110.00 0 52 54 3518.15 -7.77 125.66 244.24 56.61 1 51 32 2918.1 -12.11 119.25

DIFFERENTIAL CORRECTIONS

TDE -.7261 TRA-1.2674 TC3 .5399 BAU .1214
 RDE -.2767 RRA -.0903 RC3 .0767 FAU .05058
 FDE 1.4616 FRA 1.9648 FC3-2.6304 BSP 7703
 BDE .7770 BRA 1.2706 BC3 .5453 FSP -1092

MID-COURSE EXECUTION ACCURACY

SGT 2297.0 SGR 418.9 SG3 372.0
 RRT .7398 RRF -.7644 RTF -.9410
 SGB 2334.9 R23 -.0859 R13 -.9425
 SG1 2318.2 SG2 279.3 THA 7.80

ORBIT DETERMINATION ACCURACY

ST 1184.8 SR 391.0 SS 1229.1
 CRT .9114 CRS .9498 CST .9942
 LSA 1743.5 MSA 165.1 SSA 15.3
 EL1 1238.1 EL2 154.0 ALF 17.01

LAUNCH DATE DEC 22 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 330.848

RL 147.16 LAL .00 LOL 90.22 VL 27.181 GAL 4.12 AZL 87.71 MCA 141.04 SMA 124.62 ECC .19412 INC 2.2941 V1 30.275
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.218 GAP -8.32 AZP 91.78 TAL 162.40 TAP 303.44 RCA 100.43 APO 148.81 V2 34.980
 RC 51.091 GL 15.97 GP 7.97 ZAL 58.57 ZAP 19.71 ETS 339.48 ZAE 157.56 ETE 5.66 ZAC 123.62 ETC 159.46 CLP -18.09

PLANETOCENTRIC CONIC

C3 15.563 VHL 3.945 DLA 27.46 RAL 24.77 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 5.972 DPA 17.75 RAP 28.63 ECC 1.2561
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 59 53 3278.58 -24.92 116.20 250.57 76.09 2 54 32 2678.6 -26.59 107.93
 90.00 23 53 28 3677.77 -15.98 141.99 247.32 66.31 24 54 46 3077.8 -19.05 134.66
 100.00 4 1 1 2888.11 -28.18 88.25 251.35 79.59 4 49 9 2288.1 -29.33 79.64
 100.00 0 38 58 3543.48 -12.96 130.66 245.84 62.83 1 38 1 2943.5 -16.50 123.65
 110.00 6 8 9 2490.26 -33.96 58.90 252.21 85.88 6 49 39 1890.3 -34.16 49.66
 110.00 0 48 19 3514.09 -7.93 125.45 242.85 56.64 1 46 53 2914.1 -12.26 119.03

DIFFERENTIAL CORRECTIONS

TDE -.7156 TRA-1.2346 TC3 .6202 BAU .1316
 RDE -.2737 RRA -.1131 RC3 .1244 FAU .05517
 FDE 1.5629 FRA 2.0990 FC3-3.0688 BSP 7814
 BDE .7662 BRA 1.2397 BC3 .6326 FSP -1217

MID-COURSE EXECUTION ACCURACY

SGT 2324.4 SGR 449.4 SG3 412.7
 RRT .7996 RRF -.8273 RTF -.9444
 SGB 2367.4 R23 -.1034 R13 -.9464
 SG1 2352.3 SG2 266.7 THA 8.90

ORBIT DETERMINATION ACCURACY

ST 1203.3 SR 401.4 SS 1286.9
 CRT .9252 CRS .9587 CST .9947
 LSA 1800.1 MSA 157.0 SSA 15.1
 EL1 1260.1 EL2 145.5 ALF 17.39

LAUNCH DATE DEC 22 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 337.499

RL 147.16 LAL .00 LOL 90.22 VL 27.256 GAL 3.93 AZL 87.83 MCA 144.23 SMA 125.10 ECC .18871 INC 2.1711 V1 30.275
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.261 GAP -7.72 AZP 91.76 TAL 162.65 TAP 306.88 RCA 101.50 APO 148.71 V2 34.967
 RC 52.697 GL 15.66 GP 9.08 ZAL 58.90 ZAP 22.23 ETS 339.50 ZAE 156.52 ETE 9.15 ZAC 124.00 ETC 158.45 CLP -20.38

PLANETOCENTRIC CONIC

C3 14.574 VHL 3.818 DLA 27.02 RAL 24.49 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 5.658 DPA 19.13 RAP 29.04 ECC 1.2398
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 12 42 3217.83 -25.84 111.99 249.31 78.01 3 6 20 2617.8 -27.24 103.60
 90.00 23 38 25 3709.11 -15.11 143.88 245.57 65.76 24 40 15 3109.1 -18.26 136.62
 100.00 4 8 32 2844.42 -28.68 85.10 249.90 81.18 4 55 56 2244.4 -29.60 76.42
 100.00 0 29 13 3557.74 -12.52 131.48 244.28 62.63 1 28 30 2957.7 -16.09 124.51
 110.00 6 12 1 2458.03 -34.09 56.39 250.54 87.36 6 52 59 1858.0 -34.08 47.15
 110.00 0 42 13 3516.91 -7.82 125.60 241.49 56.62 1 40 50 2916.9 -12.16 119.19

DIFFERENTIAL CORRECTIONS

TDE -.6998 TRA-1.2008 TC3 .7000 BAU .1411
 RDE -.2738 RRA -.1398 RC3 .1857 FAU .06024
 FDE 1.6649 FRA 2.2505 FC3-3.5785 BSP 7902
 BDE .7515 BRA 1.2089 BC3 .7242 FSP -1356

MID-COURSE EXECUTION ACCURACY

SGT 2341.3 SGR 494.4 SG3 457.9
 RRT .8500 RRF -.8806 RTF -.9474
 SGB 2392.9 R23 -.1244 R13 -.9500
 SG1 2379.2 SG2 256.3 THA 10.30

ORBIT DETERMINATION ACCURACY

ST 1213.2 SR 417.0 SS 1342.7
 CRT .9381 CRS .9670 CST .9952
 LSA 1851.0 MSA 148.7 SSA 14.8
 EL1 1275.5 EL2 137.3 ALF 18.09

LAUNCH DATE DEC 22 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 344.131

RL 147.16 LAL .00 LOL 90.22 VL 27.325 GAL 3.75 AZL 87.97 MCA 147.43 SMA 125.55 ECC .18377 INC 2.0277 V1 30.275
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.299 GAP -7.14 AZP 91.71 TAL 162.90 TAP 310.33 RCA 102.48 APO 148.62 V2 34.954
 RC 54.398 GL 15.13 GP 10.44 ZAL 59.21 ZAP 24.96 ETS 339.23 ZAE 155.63 ETE 12.97 ZAC 124.13 ETC 157.30 CLP -22.80

PLANETOCENTRIC CONIC

C3 13.667 VHL 3.697 DLA 26.38 RAL 24.30 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 5.362 DPA 20.68 RAP 29.22 ECC 1.2249
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 33 3148.18 -26.74 107.09 248.09 80.31 3 21 1 2548.2 -27.80 98.58
 90.00 23 21 1 3750.46 -13.94 146.36 243.85 65.10 24 23 32 3150.5 -17.18 139.18
 100.00 4 19 16 2791.27 -29.17 81.23 248.49 83.16 5 5 47 2191.3 -29.81 72.48
 100.00 0 16 56 3582.60 -11.74 132.91 242.74 62.31 1 16 38 2982.6 -15.35 125.99
 110.00 6 18 15 2418.97 -34.17 53.35 248.89 89.16 6 58 34 1819.0 -33.91 44.11
 110.00 0 34 26 3527.67 -7.42 126.17 240.15 56.54 1 33 14 2927.7 -11.77 119.77

DIFFERENTIAL CORRECTIONS

TDE -.6763 TRA-1.1642 TC3 .7832 BAU .1511
 RDE -.2771 RRA -.1719 RC3 .2657 FAU .06591
 FDE 1.7612 FRA 2.4193 FC3-4.1753 BSP 8009
 BDE .7308 BRA 1.1768 BC3 .8270 FSP -1514

MID-COURSE EXECUTION ACCURACY

SGT 2343.1 SGR 558.0 SG3 507.5
 RRT .8892 RRF -.9224 RTF -.9503
 SGB 2408.6 R23 -.1478 R13 -.9538
 SG1 2395.7 SG2 249.7 THA 12.09

ORBIT DETERMINATION ACCURACY

ST 1209.9 SR 438.6 SS 1392.7
 CRT .9498 CRS .9744 CST .9957
 LSA 1891.0 MSA 140.2 SSA 14.5
 EL1 1280.4 EL2 129.6 ALF 19.20

LAUNCH DATE DEC 22 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 350.742

RL 147.16 LAL .00 LOL 90.22 VL 27.387 GAL 3.59 AZL 88.14 HCA 150.62 SMA 125.95 ECC .17928 INC 1.8570 V1 30.275
 RP 108.45 LAP .91 LOP 240.85 VP 37.332 GAP -6.57 AZP 91.62 TAL 163.16 TAP 313.77 RCA 103.37 APO 148.53 V2 34.942
 RC 56.186 GL 14.32 GP 12.13 ZAL 59.48 ZAP 27.94 ETS 338.70 ZAE 154.84 ETE 17.34 ZAC 123.94 ETC 156.01 CLP -25.36

PLANETOCENTRIC CONIC

C3 12.833 VHL 3.582 DLA 25.48 RAL 24.23 RAD 6567.5 VEL 11.585 PTH 2.03 VHP 5.088 DPA 22.47 RAP 29.11 ECC 1.2112
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 47 31 3069.43 -27.51 101.46 246.89 83.03 3 38 40 2469.4 -28.19 92.86
 90.00 23 1 29 3801.92 -12.44 149.40 242.21 64.36 24 4 51 3201.9 -15.80 142.32
 100.00 4 33 30 2727.70 -29.59 76.55 247.12 85.59 5 18 58 2127.7 -29.89 67.76
 100.00 0 2 6 3618.88 -10.58 134.99 241.25 61.88 1 2 25 3018.9 -14.26 128.13
 110.00 6 27 21 2371.52 -34.16 49.64 247.27 91.35 7 6 52 1771.5 -33.59 40.44
 110.00 0 24 45 3547.83 -6.66 127.24 238.88 56.39 1 23 53 2947.8 -11.03 120.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6473 TRA-1.1289 TC3 .8561 BAU .1600 SGT 2334.2 SGR 646.6 SG3 561.5 ST 1196.7 SR 468.4 SS 1435.4
 RDE -.2842 RRA -.2121 RC3 .3700 FAU .07198 RRT .9175 RRF -.9527 RTF -.9523 CRT .9605 CRS .9807 CST .9962
 FDE 1.8466 FRA 2.6119 FC3-4.8558 BSP 8050 SGB 2422.1 R23 -.1731 R13 -.9573 LSA 1922.1 MSA 131.0 SSA 14.2
 BDE .7069 BRA 1.1486 BC3 .9326 FSP -1684 SG1 2409.2 SG2 249.2 THA 14.42 EL1 1279.3 EL2 122.0 ALF 20.80

LAUNCH DATE DEC 22 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 357.333

RL 147.16 LAL .00 LOL 90.22 VL 27.443 GAL 3.44 AZL 88.35 HCA 153.80 SMA 126.32 ECC .17522 INC 1.6489 V1 30.275
 RP 108.49 LAP .73 LOP 244.03 VP 37.362 GAP -6.02 AZP 91.48 TAL 163.41 TAP 317.21 RCA 104.19 APO 148.46 V2 34.929
 RC 58.051 GL 13.12 GP 14.24 ZAL 59.69 ZAP 31.23 ETS 337.89 ZAE 154.05 ETE 22.47 ZAC 123.37 ETC 154.56 CLP -28.09

PLANETOCENTRIC CONIC

C3 12.061 VHL 3.473 DLA 24.22 RAL 24.32 RAD 6567.5 VEL 11.552 PTH 2.02 VHP 4.839 DPA 24.59 RAP 28.65 ECC 1.1985
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 10 3 2979.90 -28.09 94.97 245.68 86.23 3 59 43 2379.9 -28.31 86.31
 90.00 22 39 42 3865.03 -10.56 153.07 240.69 63.57 23 44 7 3265.0 -14.02 146.11
 100.00 4 51 46 2651.95 -29.86 70.93 245.77 88.53 5 35 58 2051.9 -29.74 62.13
 100.00 23 40 40 3668.22 -8.98 137.78 239.85 61.37 24 41 48 3068.2 -12.74 131.00
 110.00 6 39 58 2313.43 -33.97 45.11 245.66 94.03 7 18 32 1713.4 -33.04 36.00
 110.00 0 12 53 3579.49 -5.46 128.91 237.71 56.20 1 12 32 2979.5 -9.87 122.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6081 TRA-1.0903 TC3 .9277 BAU .1707 SGT 2304.8 SGR 767.1 SG3 618.6 ST 1164.9 SR 507.1 SS 1461.8
 RDE -.2948 RRA -.2632 RC3 .5093 FAU .07850 RRT .9361 RRF -.9730 RTF -.9542 CRT .9696 CRS .9858 CST .9967
 FDE 1.9038 FRA 2.8230 FC3-5.6350 BSP 8132 SGB 2429.1 R23 -.1945 R13 -.9613 LSA 1932.9 MSA 120.8 SSA 14.0
 BDE .6758 BRA 1.1216 BC3 1.0584 FSP -1870 SG1 2415.4 SG2 257.4 THA 17.51 EL1 1265.3 EL2 114.3 ALF 23.08

LAUNCH DATE DEC 22 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 363.904

RL 147.16 LAL .00 LOL 90.22 VL 27.494 GAL 3.51 AZL 88.61 HCA 156.99 SMA 126.66 ECC .17158 INC 1.3878 V1 30.275
 RP 108.53 LAP .54 LOP 247.21 VP 37.388 GAP -5.49 AZP 91.28 TAL 163.65 TAP 320.64 RCA 104.92 APO 148.39 V2 34.917
 RC 59.985 GL 11.38 GP 16.94 ZAL 59.84 ZAP 34.91 ETS 336.80 ZAE 153.08 ETE 28.61 ZAC 122.31 ETC 152.91 CLP -30.99

PLANETOCENTRIC CONIC

C3 11.345 VHL 3.368 DLA 22.47 RAL 24.64 RAD 6567.4 VEL 11.521 PTH 2.01 VHP 4.620 DPA 27.17 RAP 27.72 ECC 1.1867
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 37 7 2876.27 -28.32 87.40 244.46 90.02 4 25 3 2276.3 -28.01 78.75
 90.00 22 15 13 3943.06 -8.16 157.55 239.35 62.79 23 20 56 3343.1 -11.74 150.70
 100.00 5 14 55 2560.92 -29.83 64.17 244.43 92.09 5 57 36 1960.9 -29.22 55.42
 100.00 23 20 6 3733.65 -6.83 141.44 238.64 60.83 24 22 19 3133.6 -10.67 134.76
 110.00 6 57 4 2241.35 -33.49 39.54 244.07 97.29 7 34 25 1641.4 -32.12 30.58
 110.00 23 54 26 3625.98 -3.70 131.35 236.70 55.99 24 54 52 3026.0 -8.14 125.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5590 TRA-1.0502 TC3 .9874 BAU .1833 SGT 2254.9 SGR 930.9 SG3 676.3 ST 1114.0 SR 555.6 SS 1463.2
 RDE -.3084 RRA -.3307 RC3 .6974 FAU .08510 RRT .9473 RRF -.9856 RTF -.9554 CRT .9775 CRS .9897 CST .9974
 FDE 1.9120 FRA 3.0517 FC3-6.4941 BSP 8215 SGB 2439.5 R23 -.2077 R13 -.9658 LSA 1917.9 MSA 108.8 SSA 14.1
 BDE .6384 BRA 1.1011 BC3 1.2089 FSP -2063 SG1 2423.6 SG2 277.5 THA 21.66 EL1 1240.4 EL2 105.3 ALF 26.19

LAUNCH DATE DEC 22 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 370.452

RL 147.16 LAL .00 LOL 90.22 VL 27.539 GAL 3.19 AZL 88.95 HCA 160.17 SMA 126.96 ECC .16832 INC 1.0482 V1 30.275
 RP 108.57 LAP .36 LOP 250.39 VP 37.410 GAP -4.97 AZP 90.99 TAL 163.88 TAP 324.05 RCA 105.59 APO 148.33 V2 34.906
 RC 61.981 GL 8.86 GP 20.47 ZAL 59.93 ZAP 39.10 ETS 335.39 ZAE 151.62 ETE 35.93 ZAC 120.59 ETC 151.05 CLP -34.07

PLANETOCENTRIC CONIC

C3 10.685 VHL 3.269 DLA 19.99 RAL 25.29 RAD 6567.4 VEL 11.492 PTH 2.00 VHP 4.443 DPA 30.42 RAP 26.15 ECC 1.1759
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 20 2752.71 -27.98 78.38 243.25 94.53 4 56 12 2152.7 -27.06 69.84
 90.00 21 47 9 4042.03 -5.04 163.15 238.33 62.10 22 54 31 3442.0 -8.74 156.42
 100.00 5 44 27 2449.18 -29.26 55.91 243.11 96.40 6 25 17 1849.2 -28.07 47.31
 100.00 22 55 43 3820.79 -3.91 146.27 237.71 60.34 23 59 23 3220.8 -7.83 139.67
 110.00 7 20 7 2149.89 -32.48 32.60 242.52 101.28 7 55 57 1549.9 -30.59 23.89
 110.00 23 36 32 3692.84 -1.15 134.84 235.99 55.83 24 38 5 3092.8 -5.62 128.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4996 TRA-1.0095 TC3 1.0266 BAU .2002 SGT 2182.3 SGR 1154.0 SG3 729.6 ST 1042.2 SR 613.1 SS 1426.6
 RDE -.3225 RRA -.4233 RC3 .9540 FAU .09106 RRT .9530 RRF -.9928 RTF -.9558 CRT .9845 CRS .9926 CST .9983
 FDE 1.8399 FRA 3.2891 FC3-7.3777 BSP 8326 SGB 2468.7 R23 -.2076 R13 -.9714 LSA 1867.7 MSA 93.5 SSA 14.7
 BDE .5946 BRA 1.0947 BC3 1.4014 FSP -2242 SG1 2449.0 SG2 311.6 THA 27.22 EL1 1205.6 EL2 93.0 ALF 30.28

LAUNCH DATE DEC 22 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 376.978

RL 147.16 LAL .00 LOL 90.22 VL 27.579 GAL 3.09 AZL 89.41 MCA 163.35 SMA 127.23 ECC .16543 INC .5853 V1 30.275
 RP 108.60 LAP .17 LOP 253.57 VP 37.429 GAP -4.47 AZP 90.56 TAL 164.09 TAP 327.44 RCA 106.18 APO 148.27 V2 34.894
 RC 64.032 GL 5.08 GP 25.17 ZAL 59.98 ZAP 43.97 ETS 333.66 ZAE 149.17 ETE 44.37 ZAC 117.98 ETC 148.96 CLP -37.33

PLANETOCENTRIC CONIC

C3 10.104 VHL 3.179 DLA 16.36 RAL 26.41 RAD 6567.4 VEL 11.467 PTH 1.99 VHP 4.330 DPA 34.64 RAP 23.68 ECC 1.1663
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 32 2599.02 -26.66 67.33 242.14 99.91 5 35 51 1999.0 -25.02 59.05
 90.00 21 13 52 4173.13 -.83 170.48 237.87 61.69 22 23 25 3573.1 -4.61 163.84
 100.00 6 23 3 2307.08 -27.74 45.63 241.91 101.60 7 1 31 1707.1 -25.86 37.33
 100.00 22 26 1 3940.31 .13 152.83 237.34 60.11 23 31 42 3340.3 -3.85 146.30
 110.00 7 51 38 2029.93 -30.54 23.79 241.12 106.16 8 25 28 1429.9 -28.03 15.50
 110.00 23 13 56 3790.22 2.58 139.92 235.81 55.90 24 17 6 3190.2 -1.92 133.72

DIFFERENTIAL CORRECTIONS

TDE -.4263 TRA -.9648 TC3 1.0478 BAU .2267
 RDE -.3290 RRA -.5532 RC3 1.3109 FAU .09547
 FDE 1.6311 FRA 3.4976 FC3-8.1805 BSP 8632
 BOE .5385 BRA 1.1121 BC3 1.6782 FSP -2394

MID-COURSE EXECUTION ACCURACY

SGT 2078.2 SGR 1458.1 SG3 767.3
 RRT .9551 RRF -.9967 RTF -.9554
 SGB 2538.7 R23 -.1895 R13 -.9786
 SG1 2513.5 SG2 357.1 THA 34.63

ORBIT DETERMINATION ACCURACY

ST 941.5 SR 670.4 SS 1325.5
 CRT .9912 CRS .9943 CST .9994
 LSA 1757.0 MSA 73.9 SSA 16.7
 EL1 1153.5 EL2 72.4 ALF 35.37

LAUNCH DATE DEC 22 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 383.486

RL 147.16 LAL .00 LOL 90.22 VL 27.614 GAL 3.00 AZL 90.09 MCA 166.52 SMA 127.46 ECC .16289 INC .0854 V1 30.275
 RP 108.64 LAP -.02 LOP 256.74 VP 37.445 GAP -3.98 AZP 89.92 TAL 164.27 TAP 330.79 RCA 106.70 APO 148.23 V2 34.883
 RC 66.131 GL -.77 GP 31.61 ZAL 60.14 ZAP 49.79 ETS 331.62 ZAE 144.95 ETE 53.46 ZAC 114.14 ETC 146.68 CLP -40.71

PLANETOCENTRIC CONIC

C3 9.686 VHL 3.112 DLA 10.78 RAL 28.26 RAD 6567.3 VEL 11.449 PTH 1.99 VHP 4.326 DPA 40.28 RAP 19.77 ECC 1.1594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 4 2396.76 -23.53 53.36 241.49 106.22 6 29 0 1796.8 -21.08 45.55
 90.00 20 32 9 4358.65 5.14 180.85 238.56 62.11 21 44 48 3758.6 1.37 174.20
 100.00 7 15 47 2117.05 -24.45 32.48 241.19 107.76 7 51 4 1517.0 -21.79 24.70
 100.00 21 48 7 4113.59 5.98 162.37 238.10 60.66 22 56 40 3513.6 2.02 155.82
 110.00 8 36 15 1865.28 -26.87 12.40 240.22 111.98 9 7 20 1265.3 -23.64 4.72
 110.00 22 44 9 3938.12 8.17 147.71 236.75 56.69 23 49 47 3338.1 3.74 141.44

DIFFERENTIAL CORRECTIONS

TDE -.3916 TRA -.9682 TC3 .8150 BAU .2425
 RDE -.3361 RRA -.7721 RC3 1.6857 FAU .09012
 FDE 1.3552 FRA 3.7487 FC3-8.0544 BSP 7915
 BOE .5160 BRA 1.2383 BC3 1.8724 FSP -2198

MID-COURSE EXECUTION ACCURACY

SGT 2017.2 SGR 1891.4 SG3 776.2
 RRT .9445 RRF -.9986 RTF -.9429
 SGB 2765.2 R23 -.1782 R13 -.9826
 SG1 2726.7 SG2 459.6 THA 43.05

ORBIT DETERMINATION ACCURACY

ST 903.4 SR 756.5 SS 1221.9
 CRT .9991 CRS .9960 CST .9981
 LSA 1696.2 MSA 62.9 SSA 18.6
 EL1 1178.1 EL2 24.8 ALF 39.94

LAUNCH DATE DEC 22 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 389.961

RL 147.16 LAL .00 LOL 90.22 VL 27.645 GAL 2.92 AZL 91.16 MCA 169.69 SMA 127.68 ECC .16068 INC 1.1645 V1 30.275
 RP 108.67 LAP -.21 LOP 259.91 VP 37.458 GAP -3.51 AZP 88.85 TAL 164.43 TAP 334.12 RCA 107.16 APO 148.19 V2 34.873
 RC 68.274 GL -10.36 GP 40.61 ZAL 60.98 ZAP 56.96 ETS 329.39 ZAE 137.86 ETE 62.30 ZAC 108.50 ETC 144.37 CLP -44.09

PLANETOCENTRIC CONIC

C3 9.745 VHL 3.122 DLA 1.68 RAL 31.32 RAD 6567.4 VEL 11.451 PTH 1.99 VHP 4.541 DPA 47.95 RAP 13.18 ECC 1.1604
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 11 19 2108.96 -16.87 34.90 242.45 113.08 7 46 28 1509.0 -13.60 27.75
 90.00 19 34 15 4648.84 13.99 197.57 241.98 65.13 20 51 44 4048.8 10.52 190.61
 100.00 8 33 27 1844.07 -17.68 15.05 242.08 114.50 9 4 11 1244.1 -14.23 7.96
 100.00 20 54 49 4388.97 14.79 178.07 241.58 63.72 22 7 58 3789.0 11.14 171.18
 110.00 9 43 29 1624.85 -19.85 357.27 240.94 118.42 10 10 34 1024.8 -15.90 350.38
 110.00 22 1 16 4180.96 16.92 161.09 240.40 59.84 23 10 57 3581.0 12.78 154.42

DIFFERENTIAL CORRECTIONS

TDE -.2775 TRA -.9027 TC3 .8100 BAU .3119
 RDE -.2395 RRA -1.0612 RC3 2.2530 FAU .08436
 FDE .6661 FRA 3.5941 FC3-7.4938 BSP 9582
 BOE .3666 BRA 1.3932 BC3 2.3942 FSP -2163

MID-COURSE EXECUTION ACCURACY

SGT 1806.2 SGR 2443.1 SG3 706.9
 RRT .9438 RRF -.9995 RTF -.9425
 SGB 3038.3 R23 -.1196 R13 -.9923
 SG1 2999.2 SG2 486.1 THA 54.00

ORBIT DETERMINATION ACCURACY

ST 711.9 SR 732.7 SS 914.6
 CRT .9878 CRS .9958 CST .9696
 LSA 1364.1 MSA 138.4 SSA 7.1
 EL1 1018.5 EL2 79.9 ALF 45.83

LAUNCH DATE DEC 22 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 396.409

RL 147.16 LAL .00 LOL 90.22 VL 27.672 GAL 2.86 AZL 93.18 MCA 172.86 SMA 127.86 ECC .15879 INC 3.1817 V1 30.275
 RP 108.70 LAP -.40 LOP 263.09 VP 37.468 GAP -3.05 AZP 86.84 TAL 164.54 TAP 337.40 RCA 107.56 APO 148.16 V2 34.862
 RC 70.456 GL -26.60 GP 53.33 ZAL 64.30 ZAP 65.88 ETS 327.17 ZAE 126.50 ETE 69.54 ZAC 100.47 ETC 142.32 CLP -46.82

PLANETOCENTRIC CONIC

C3 11.747 VHL 3.427 DLA -13.72 RAL 36.56 RAD 6567.4 VEL 11.538 PTH 2.01 VHP 5.305 DPA 58.20 RAP .50 ECC 1.1933
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 32 9 1654.38 -3.21 8.52 249.47 118.15 9 59 43 1054.4 .58 1.89
 90.00 17 55 18 5179.48 25.84 231.82 253.63 78.00 19 21 37 4579.5 23.93 223.67
 100.00 10 46 16 1415.23 -4.16 350.42 248.95 119.63 11 9 51 815.2 -.18 343.88
 100.00 19 23 51 4893.87 26.89 210.54 253.36 76.43 20 45 25 4293.9 24.76 202.39
 110.00 11 38 18 1252.25 -6.60 336.54 247.44 123.62 11 59 10 652.2 -2.14 330.30
 110.00 20 48 18 4629.62 29.66 189.59 252.48 72.17 22 5 28 4029.6 26.94 181.46

DIFFERENTIAL CORRECTIONS

TDE -.2089 TRA -.8887 TC3 .5423 BAU .3780
 RDE .0048 RRA -1.5746 RC3 2.3448 FAU .06128
 FDE -.0616 FRA 3.0981 FC3-4.5163 BSP 10977
 BOE .2090 BRA 1.8081 BC3 2.4067 FSP -1635

MID-COURSE EXECUTION ACCURACY

SGT 1612.1 SGR 3150.4 SG3 532.7
 RRT .9330 RRF -.9999 RTF -.9324
 SGB 3538.9 R23 -.0743 R13 -.9971
 SG1 3500.2 SG2 522.3 THA 63.85

ORBIT DETERMINATION ACCURACY

ST 576.7 SR 814.3 SS 735.8
 CRT .7893 CRS .9985 CST .7549
 LSA 1193.1 MSA 337.0 SSA 2.0
 EL1 950.6 EL2 303.3 ALF 57.02

LAUNCH DATE DEC 22 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 402.810

RL 147.16 LAL .00 LOL 90.22 VL 27.695 GAL 2.82 AZL 98.36 MCA 175.99 SMA 128.02 ECC .15721 INC 8.3552 V1 30.275
 RP 108.73 LAP -.58 LOP 266.25 VP 37.476 GAP -2.61 AZP 81.66 TAL 164.59 TAP 340.59 RCA 107.89 APO 148.14 V2 34.853
 RC 72.672 GL -50.99 GP 71.04 ZAL 73.53 ZAP 76.50 ETS 323.49 ZAE 109.23 ETE 72.02 ZAC 89.84 ETC 139.39 CLP -44.05

PLANETOCENTRIC CONIC

C3 26.760 VHL 5.173 DLA -36.82 RAL 45.53 RAD 6568.1 VEL 12.171 PTH 2.18 VHP 8.014 DPA 69.70 RAP 328.16 ECC 1.4404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.42 11 24 2 1516.84 22.78 12.95 281.38 119.74 11 49 19 916.8 26.56 5.60
 114.58 17 14 54 5697.80 22.80 267.53 281.39 119.73 18 49 52 5097.8 26.57 260.19
 65.42 11 24 2 1516.84 22.78 12.95 281.38 119.74 11 49 19 916.8 26.56 5.60
 114.58 17 14 54 5697.80 22.80 267.53 281.39 119.73 18 49 52 5097.8 26.57 260.19
 65.42 11 24 2 1516.84 22.78 12.95 281.38 119.74 11 49 19 916.8 26.56 5.60
 114.58 17 14 54 5697.80 22.80 267.53 281.39 119.73 18 49 52 5097.8 26.57 260.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2244 TRA -1.0697 TC3 .1857 BAU .3937 SGT 1513.0 SGR 3834.4 SG3 264.2 ST 508.9 SR 1287.7 SS 704.1
 RDE .6330 RRA -2.6012 RC3 1.0848 FAU .02545 RRT .9252 RRF -.9998 RTF -.9307 CRT .4659 CRS .9997 CST .4882
 FDE -.4801 FRA 2.0874 FC3 -.8235 BSP 12890 SGB 4122.1 R23 -.0341 R13 -.9994 LSA 1488.9 MSA 442.7 SSA .6
 BDE .6716 BRA 2.8126 BC3 1.1006 FSP -.836 SGI 4086.7 SG2 538.6 TMA 69.57 EL1 1312.2 EL2 441.9 ALF 78.21

LAUNCH DATE DEC 22 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 408.922

RL 147.16 LAL .00 LOL 90.22 VL 27.715 GAL 2.84 AZL 133.90 MCA 178.90 SMA 128.15 ECC .15618 INC43.9062 V1 30.275
 RP 108.76 LAP -.77 LOP 269.42 VP 37.482 GAP -2.24 AZP 46.10 TAL 164.35 TAP 343.25 RCA 108.14 APO 148.16 V2 34.844
 RC 74.919 GL -61.47 GP 70.86 ZAL 86.12 ZAP 86.80 ETS 188.57 ZAE 75.15 ETE 299.97 ZAC 78.45 ETC 9.43 CLP 80.20

PLANETOCENTRIC CONIC

C3 477.396 VHL 21.849 DLA -51.11 RAL 41.16 RAD 6572.3 VEL 24.468 PTH 3.32 VHP 29.092 DPA 64.31 RAP 231.87 ECC 8.8567
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.49 9 45 45 2284.54 2.16 62.41 309.41 141.08 10 23 49 1684.5 8.37 57.76
 134.51 18 18 24 743.27 2.17 300.36 309.43 141.08 18 30 47 143.3 8.38 295.70
 45.49 9 45 45 2284.54 2.16 62.41 309.41 141.08 10 23 49 1684.5 8.37 57.76
 134.51 18 18 24 743.27 2.17 300.36 309.43 141.08 18 30 47 143.3 8.38 295.70
 45.49 9 45 45 2284.54 2.16 62.41 309.41 141.08 10 23 49 1684.5 8.37 57.76
 134.51 18 18 24 743.27 2.17 300.36 309.43 141.08 18 30 47 143.3 8.38 295.70

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 4.3626 TRA -3.0494 TC3 -.1141 BAU 1.6073 SGT 1783.2 SGR 3765.7 SG3 74.4 ST 1206.2 SR 1395.5 SS 894.6
 RDE -3.4781 RRA 8.4253 RC3 .2245 FAU .02932 RRT -.8958 RRF .9974 RTF -.9256 CRT -.8598 CRS .9908 CST .9209
 FDE -1.0178 FRA 1.8782 FC3 .0532 BSP 15386 SGB 4166.5 R23 -.0057 R13 1.0000 LSA 1991.1 MSA 488.0 SSA .3
 BDE 5.5794 BRA 8.9601 BC3 .2518 FSP -.282 SGI 4102.5 SG2 727.4 TMA 113.78 EL1 1780.3 EL2 482.8 ALF 130.17

LAUNCH DATE DEC 22 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 415.878

RL 147.16 LAL .00 LOL 90.22 VL 27.731 GAL 2.71 AZL 68.21 MCA 182.55 SMA 128.26 ECC .15456 INC21.7895 V1 30.275
 RP 108.78 LAP -.95 LOP 272.59 VP 37.486 GAP -1.67 AZP 111.77 TAL 164.89 TAP 347.45 RCA 108.44 APO 148.09 V2 34.835
 RC 77.194 GL 65.12 GP -83.17 ZAL 82.82 ZAP 84.05 ETS 89.22 ZAE 93.54 ETE 341.54 ZAC 110.53 ETC 275.79 CLP -29.31

PLANETOCENTRIC CONIC

C3 128.478 VHL 11.335 DLA 61.96 RAL 328.61 RAD 6570.4 VEL 15.805 PTH 2.80 VHP 11.981 DPA -59.66 RAP 90.43 ECC 3.1144
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.28 16 18 16 4822.43 -13.24 235.43 231.43 28.88 17 38 38 4222.4 -20.20 231.74
 147.72 2 7 3 3133.67 -13.22 95.85 231.41 28.88 2 59 17 2533.7 -20.19 92.16
 32.28 16 18 16 4822.43 -13.24 235.43 231.43 28.88 17 38 38 4222.4 -20.20 231.74
 147.72 2 7 3 3133.67 -13.22 95.85 231.41 28.88 2 59 17 2533.7 -20.19 92.16
 32.28 16 18 16 4822.43 -13.24 235.43 231.43 28.88 17 38 38 4222.4 -20.20 231.74
 147.72 2 7 3 3133.67 -13.22 95.85 231.41 28.88 2 59 17 2533.7 -20.19 92.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -8.4970 TRA .7511 TC3 -.0553 BAU .1007 SGT 4372.2 SGR 1110.7 SG3 149.1 ST 4301.9 SR 753.9 SS 1739.1
 RDE 1.4027 RRA -.7941 RC3 -.0194 FAU .00171 RRT -.7679 RRF .8035 RTF -.9983 CRT -.9581 CRS -.9631 CST .9998
 FDE 3.3144 FRA -.3853 FC3 .0115 BSP 13705 SGB 4511.1 R23 -.0262 R13 .9996 LSA 4696.2 MSA 213.4 SSA .5
 BDE 8.6120 BRA 1.0931 BC3 .0586 FSP -.478 SGI 4456.8 SG2 697.9 TMA 168.68 EL1 4362.3 EL2 212.8 ALF 170.45

LAUNCH DATE DEC 22 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 422.173

RL 147.16 LAL .00 LOL 90.22 VL 27.744 GAL 2.71 AZL 78.48 MCA 185.65 SMA 128.35 ECC .15382 INC11.5169 V1 30.275
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.489 GAP -1.27 AZP 101.46 TAL 164.78 TAP 350.43 RCA 108.61 APO 148.09 V2 34.827
 RC 79.493 GL 58.22 GP -65.42 ZAL 77.41 ZAP 80.57 ETS 27.37 ZAE 113.16 ETE 283.72 ZAC 116.52 ETC 211.60 CLP -66.81

PLANETOCENTRIC CONIC

C3 42.365 VHL 6.509 DLA 60.16 RAL 344.08 RAD 6568.6 VEL 12.796 PTH 2.33 VHP 5.921 DPA -49.84 RAP 61.17 ECC 1.6972
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.42 17 25 15 4557.83 -27.70 224.88 236.56 34.20 18 41 13 3957.8 -34.21 219.87
 145.58 3 3 29 2887.92 -27.69 87.87 236.55 34.19 3 51 37 2287.9 -34.20 82.87
 34.42 17 25 15 4557.83 -27.70 224.88 236.56 34.20 18 41 13 3957.8 -34.21 219.87
 145.58 3 3 29 2887.92 -27.69 87.87 236.55 34.19 3 51 37 2287.9 -34.20 82.87
 34.42 17 25 15 4557.83 -27.70 224.88 236.56 34.20 18 41 13 3957.8 -34.21 219.87
 145.58 3 3 29 2887.92 -27.69 87.87 236.55 34.19 3 51 37 2287.9 -34.20 82.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5999 TRA -.3287 TC3 .0132 BAU .3371 SGT 785.7 SGR 4178.7 SG3 434.3 ST 556.2 SR 4106.4 SS 2516.0
 RDE 4.6648 RRA .0016 RC3 -.5951 FAU .03849 RRT -.6650 RRF .9992 RTF -.6890 CRT -.9496 CRS -.9999 CST .9530
 FDE 5.5869 FRA .1033 FC3 -.7865 BSP 13401 SGB 4252.0 R23 .0151 R13 .9996 LSA 4844.8 MSA 173.4 SSA 1.7
 BDE 4.7032 BRA .3287 BC3 .5952 FSP -.1432 SGI 4211.9 SG2 582.2 TMA 97.27 EL1 4140.2 EL2 172.9 ALF 97.34

LAUNCH DATE DEC 22 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 27.754 GAL 2.72 AZL 81.46 MCA 188.80 SMA 128.42 ECC .15326 INC 8.5400 V1 30.275
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.489 GAP -.87 AZP 98.44 TAL 164.68 TAP 353.47 RCA 108.74 APO 148.10 V2 34.820
 RC 81.813 GL 52.20 GP -53.14 ZAL 74.16 ZAP 80.79 ETS 16.20 ZAE 125.88 ETE 274.92 ZAC 118.60 ETC 198.83 CLP -74.53

PLANETOCENTRIC CONIC
 C3 27.151 VHL 5.211 DLA 56.55 RAL 353.55 RAD 6568.1 VEL 12.187 PTH 2.19 VHP 4.332 DPA -40.94 RAP 48.62 ECC 1.4468
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.77 18 14 24 4423.86 -32.46 215.27 238.72 40.79 19 28 7 3823.9 -38.34 209.03
 141.23 3 29 51 2797.98 -32.44 83.79 238.70 40.78 4 16 29 2198.0 -38.33 77.55
 38.77 18 14 24 4423.86 -32.46 215.27 238.72 40.79 19 28 7 3823.9 -38.34 209.03
 141.23 3 29 51 2797.98 -32.44 83.79 238.70 40.78 4 16 29 2198.0 -38.33 77.55
 38.77 18 14 24 4423.86 -32.46 215.27 238.72 40.79 19 28 7 3823.9 -38.34 209.03
 141.23 3 29 51 2797.98 -32.44 83.79 238.70 40.78 4 16 29 2198.0 -38.33 77.55

DIFFERENTIAL CORRECTIONS
 TDE .1658 TRA -.2906 TC3 -.1436 BAU .3634
 RDE 3.2683 RRA .3491 RC3 -.9908 FAU .07873
 FDE 7.5516 FRA .9474 FC3-2.5102 BSP 11914
 BOE 3.2725 BRA .4542 BC3 1.0011 FSP -2483

MID-COURSE EXECUTION ACCURACY
 SGT 625.9 SGR 3803.5 SG3 769.7
 RRT .1705 RRF .9992 RTF .1452
 SGB 3854.6 R23 .0303 R13 .9991
 SG1 3805.0 SG2 616.5 THA 88.35

ORBIT DETERMINATION ACCURACY
 ST 252.0 SR 3600.0 SS 3115.5
 CRT .6823 CRS -.9999 CST -.6748
 LSA 4763.9 MSA 186.4 SSA 2.4
 EL1 3604.1 EL2 184.0 ALF 87.26

LAUNCH DATE DEC 22 1968

FLIGHT TIME 160.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 27.762 GAL 2.74 AZL 82.87 MCA 191.95 SMA 128.47 ECC .15291 INC 7.1267 V1 30.275
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.489 GAP -.46 AZP 96.97 TAL 164.54 TAP 356.49 RCA 108.83 APO 148.12 V2 34.813
 RC 84.153 GL 47.90 GP -44.32 ZAL 72.03 ZAP 83.43 ETS 9.31 ZAE 134.81 ETE 267.71 ZAC 118.36 ETC 190.71 CLP -80.79

PLANETOCENTRIC CONIC
 C3 21.498 VHL 4.637 DLA 53.55 RAL 359.03 RAD 6567.9 VEL 11.953 PTH 2.13 VHP 3.663 DPA -34.35 RAP 40.77 ECC 1.3538
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.44 18 46 38 4344.79 -33.92 208.08 239.27 45.72 19 59 2 3744.8 -39.29 201.10
 137.56 3 41 23 2762.61 -33.91 81.60 239.25 45.71 4 27 26 2162.6 -39.28 74.62
 42.44 18 46 38 4344.79 -33.92 208.08 239.27 45.72 19 59 2 3744.8 -39.29 201.10
 137.56 3 41 23 2762.61 -33.91 81.60 239.25 45.71 4 27 26 2162.6 -39.28 74.62
 42.44 18 46 38 4344.79 -33.92 208.08 239.27 45.72 19 59 2 3744.8 -39.29 201.10
 137.56 3 41 23 2762.61 -33.91 81.60 239.25 45.71 4 27 26 2162.6 -39.28 74.62

DIFFERENTIAL CORRECTIONS
 TDE .5358 TRA -.1974 TC3 -.3762 BAU .3536
 RDE 2.4706 RRA .4565 RC3-1.1714 FAU .11351
 FDE 8.7565 FRA 1.8127 FC3-4.5712 BSP 10698
 BOE 2.5281 BRA .4974 BC3 1.2304 FSP -3423

MID-COURSE EXECUTION ACCURACY
 SGT 853.7 SGR 3376.8 SG3 1055.6
 RRT .6974 RRF .9991 RTF .6802
 SGB 3483.0 R23 .0551 R13 .9979
 SG1 3430.6 SG2 602.2 THA 79.68

ORBIT DETERMINATION ACCURACY
 ST 673.6 SR 3066.5 SS 3443.4
 CRT .9619 CRS -.9999 CST -.9588
 LSA 4656.0 MSA 188.1 SSA 2.9
 EL1 3134.4 EL2 180.2 ALF 78.03

LAUNCH DATE DEC 22 1968

FLIGHT TIME 162.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 27.767 GAL 2.76 AZL 83.70 MCA 195.11 SMA 128.50 ECC .15278 INC 6.2981 V1 30.275
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.486 GAP -.07 AZP 96.08 TAL 164.36 TAP 359.47 RCA 108.87 APO 148.14 V2 34.807
 RC 86.508 GL 44.75 GP -37.72 ZAL 70.47 ZAP 87.43 ETS 4.37 ZAE 141.04 ETE 259.55 ZAC 116.85 ETC 184.86 CLP -86.74

PLANETOCENTRIC CONIC
 C3 18.679 VHL 4.322 DLA 51.24 RAL 2.63 RAD 6567.8 VEL 11.835 PTH 2.10 VHP 3.323 DPA -29.54 RAP 34.89 ECC 1.3074
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.33 19 9 42 4291.73 -34.25 202.75 239.51 49.24 20 21 14 3691.7 -39.23 195.34
 134.67 3 47 2 2748.75 -34.24 80.48 239.49 49.23 4 32 50 2148.7 -39.22 73.08
 45.33 19 9 42 4291.73 -34.25 202.75 239.51 49.24 20 21 14 3691.7 -39.23 195.34
 134.67 3 47 2 2748.75 -34.24 80.48 239.49 49.23 4 32 50 2148.7 -39.22 73.08
 45.33 19 9 42 4291.73 -34.25 202.75 239.51 49.24 20 21 14 3691.7 -39.23 195.34
 134.67 3 47 2 2748.75 -34.24 80.48 239.49 49.23 4 32 50 2148.7 -39.22 73.08

DIFFERENTIAL CORRECTIONS
 TDE .8081 TRA -.0877 TC3 -.6572 BAU .3444
 RDE 1.9559 RRA .4808 RC3-1.2126 FAU .13988
 FDE 9.3679 FRA 2.5698 FC3-6.4831 BSP 9765
 BOE 2.1163 BRA .4888 BC3 1.3792 FSP -4151

MID-COURSE EXECUTION ACCURACY
 SGT 1226.7 SGR 2976.3 SG3 1267.6
 RRT .8721 RRF .9988 RTF .8599
 SGB 3219.2 R23 .0888 R13 .9951
 SG1 3169.5 SG2 563.7 THA 69.56

ORBIT DETERMINATION ACCURACY
 ST 1072.8 SR 2611.1 SS 3596.5
 CRT .9857 CRS -.9999 CST -.9834
 LSA 4568.2 MSA 187.0 SSA 3.4
 EL1 2817.9 EL2 167.4 ALF 67.87

LAUNCH DATE DEC 22 1968

FLIGHT TIME 164.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 27.769 GAL 2.81 AZL 84.25 MCA 198.27 SMA 128.52 ECC .15286 INC 5.7508 V1 30.275
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.483 GAP .32 AZP 95.46 TAL 164.13 TAP 361.41 RCA 108.88 APO 148.17 V2 34.802
 RC 88.877 GL 42.31 GP -32.57 ZAL 69.23 ZAP 92.14 ETS .69 ZAE 145.12 ETE 250.21 ZAC 114.75 ETC 180.53 CLP -92.53

PLANETOCENTRIC CONIC
 C3 17.046 VHL 4.129 DLA 49.43 RAL 5.28 RAD 6567.7 VEL 11.766 PTH 2.08 VHP 3.139 DPA -25.97 RAP 30.05 ECC 1.2805
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.62 19 27 34 4253.33 -34.16 198.71 239.78 51.80 20 38 28 3653.3 -38.85 191.05
 132.38 3 50 15 2744.66 -34.14 79.97 239.77 51.79 4 36 0 2144.7 -38.83 72.31
 47.62 19 27 34 4253.33 -34.16 198.71 239.78 51.80 20 38 28 3653.3 -38.85 191.05
 132.38 3 50 15 2744.66 -34.14 79.97 239.77 51.79 4 36 0 2144.7 -38.83 72.31
 47.62 19 27 34 4253.33 -34.16 198.71 239.78 51.80 20 38 28 3653.3 -38.85 191.05
 132.38 3 50 15 2744.66 -34.14 79.97 239.77 51.79 4 36 0 2144.7 -38.83 72.31

DIFFERENTIAL CORRECTIONS
 TDE 1.0390 TRA .0315 TC3 -.9668 BAU .3450
 RDE 1.5965 RRA .4734 RC3-1.1649 FAU .15706
 FDE 9.5730 FRA 3.2002 FC3-7.9769 BSP 9145
 BOE 1.9049 BRA .4744 BC3 1.5138 FSP -4617

MID-COURSE EXECUTION ACCURACY
 SGT 1649.5 SGR 2618.1 SG3 1410.5
 RRT .9333 RRF .9983 RTF .9237
 SGB 3094.4 R23 .1233 R13 .9909
 SG1 3052.4 SG2 508.2 THA 58.57

ORBIT DETERMINATION ACCURACY
 ST 1442.3 SR 2236.4 SS 3646.4
 CRT .9926 CRS -.9999 CST -.9904
 LSA 4510.3 MSA 186.1 SSA 4.0
 EL1 2657.0 EL2 147.7 ALF 57.26

LAUNCH DATE DEC 22 1968

FLIGHT TIME 166.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 453.704

RL 147.16 LAL .00 LOL 90.22 VL 27.769 GAL 2.86 AZL 84.64 MCA 201.43 SMA 128.52 ECC .15313 INC 5.3607 V1 30.275
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.479 GAP .70 AZP 94.99 TAL 163.86 TAP 5.29 RCA 108.84 APO 148.20 V2 34.797
 RC 91.256 GL 40.35 GP -28.43 ZAL 68.15 ZAP 97.16 ETS 357.91 ZAE 147.41 ETE 240.15 ZAC 112.42 ETC 177.28 CLP -98.15

PLANETOCENTRIC CONIC

C3 16.019 VHL 4.002 DLA 47.99 RAL 7.41 RAD 6567.6 VEL 11.722 PTH 2.07 VHP 3.046 OPA -23.22 RAP 25.92 ECC 1.2636
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.48 19 42 18 4223.82 -33.89 195.55 240.20 53.73 20 52 42 3623.8 -38.35 187.74
 130.52 3 52 30 2745.61 -33.88 79.81 240.18 53.71 4 38 16 2145.6 -38.34 72.01
 49.48 19 42 18 4223.82 -33.89 195.55 240.20 53.73 20 52 42 3623.8 -38.35 187.74
 130.52 3 52 30 2745.61 -33.88 79.81 240.18 53.71 4 38 16 2145.6 -38.34 72.01
 49.48 19 42 18 4223.82 -33.89 195.55 240.20 53.73 20 52 42 3623.8 -38.35 187.74
 130.52 3 52 30 2745.61 -33.88 79.81 240.18 53.71 4 38 16 2145.6 -38.34 72.01

DIFFERENTIAL CORRECTIONS

TDE 1.2410 TRA .1551 TC3-1.2903 BAU .3605
 RDE 1.3244 RRA .4449 RC3-1.0809 FAU .16810
 FDE 9.4483 FRA 3.6525 FC3-9.0849 BSP 9064
 BOE 1.8150 BRA .4712 BC3 1.6832 FSP -4941

MID-COURSE EXECUTION ACCURACY

SGT 2081.6 SGR 2291.0 SG3 1488.7
 RRT .9599 RRF .9974 RTF .9517
 SGB 3095.4 R23 .1476 R13 .9866
 SG1 3064.5 SG2 436.4 THA 47.86

ORBIT DETERMINATION ACCURACY

ST 1779.6 SR 1917.5 SS 3612.6
 CRT .9956 CRS -.9998 CST -.9933
 LSA 4456.5 MSA 184.3 SSA 4.6
 EL1 2613.2 EL2 122.0 ALF 47.14

LAUNCH DATE DEC 22 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 459.957

RL 147.16 LAL .00 LOL 90.22 VL 27.767 GAL 2.92 AZL 84.93 MCA 204.60 SMA 128.51 ECC .15361 INC 5.0667 V1 30.275
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.474 GAP 1.08 AZP 94.61 TAL 163.53 TAP 8.13 RCA 108.77 APO 148.25 V2 34.793
 RC 93.644 GL 38.69 GP -25.00 ZAL 67.15 ZAP 102.26 ETS 355.80 ZAE 148.21 ETE 230.23 ZAC 110.09 ETC 174.83 CLP -103.55

PLANETOCENTRIC CONIC

C3 15.348 VHL 3.918 DLA 46.81 RAL 9.24 RAD 6567.6 VEL 11.693 PTH 2.06 VHP 3.011 OPA -21.04 RAP 22.35 ECC 1.2526
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.03 19 55 1 4200.70 -33.54 193.03 240.76 55.21 21 5 2 3600.7 -37.84 185.12
 128.97 3 54 26 2749.37 -33.53 79.88 240.75 55.20 4 40 16 2149.4 -37.83 71.98
 51.03 19 55 1 4200.70 -33.54 193.03 240.76 55.21 21 5 2 3600.7 -37.84 185.12
 128.97 3 54 26 2749.37 -33.53 79.88 240.75 55.20 4 40 16 2149.4 -37.83 71.98
 51.03 19 55 1 4200.70 -33.54 193.03 240.76 55.21 21 5 2 3600.7 -37.84 185.12
 128.97 3 54 26 2749.37 -33.53 79.88 240.75 55.20 4 40 16 2149.4 -37.83 71.98

DIFFERENTIAL CORRECTIONS

TDE 1.4215 TRA .2827 TC3-1.6118 BAU .3860
 RDE 1.1142 RRA .4102 RC3 -.9698 FAU .17268
 FDE 9.1164 FRA 3.9738 FC3-9.7408 BSP 9344
 BOE 1.8061 BRA .4982 BC3 1.8811 FSP -5081

MID-COURSE EXECUTION ACCURACY

SGT 2506.4 SGR 2000.3 SG3 1516.6
 RRT .9727 RRF .9959 RTF .9657
 SGB 3206.7 R23 .1555 R13 .9838
 SG1 3185.9 SG2 364.9 THA 38.42

ORBIT DETERMINATION ACCURACY

ST 2087.2 SR 1650.8 SS 3531.7
 CRT .9973 CRS -.9996 CST -.9948
 LSA 4418.2 MSA 182.9 SSA 5.3
 EL1 2659.4 EL2 94.7 ALF 38.32

LAUNCH DATE DEC 22 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 466.189

RL 147.16 LAL .00 LOL 90.22 VL 27.764 GAL 3.00 AZL 85.16 MCA 207.76 SMA 128.49 ECC .15427 INC 4.8361 V1 30.275
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.468 GAP 1.45 AZP 94.28 TAL 163.16 TAP 10.92 RCA 108.66 APO 148.31 V2 34.789
 RC 96.038 GL 37.26 GP -22.12 ZAL 66.19 ZAP 107.27 ETS 354.20 ZAE 147.89 ETE 221.20 ZAC 107.92 ETC 172.98 CLP -108.69

PLANETOCENTRIC CONIC

C3 14.908 VHL 3.861 DLA 45.81 RAL 10.92 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 3.019 OPA -19.25 RAP 19.26 ECC 1.2454
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.35 20 6 29 4182.03 -33.17 190.96 241.49 56.37 21 16 11 3582.0 -37.32 183.00
 127.65 3 56 20 2755.02 -33.16 80.11 241.48 56.36 4 42 15 2155.0 -37.31 72.15
 52.35 20 6 29 4182.03 -33.17 190.96 241.49 56.37 21 16 11 3582.0 -37.32 183.00
 127.65 3 56 20 2755.02 -33.16 80.11 241.48 56.36 4 42 15 2155.0 -37.31 72.15
 52.35 20 6 29 4182.03 -33.17 190.96 241.49 56.37 21 16 11 3582.0 -37.32 183.00
 127.65 3 56 20 2755.02 -33.16 80.11 241.48 56.36 4 42 15 2155.0 -37.31 72.15

DIFFERENTIAL CORRECTIONS

TDE 1.5817 TRA .4117 TC3-1.9222 BAU .4187
 RDE .9480 RRA .3725 RC3 -.8480 FAU .17231
 FDE 8.6437 FRA 4.1729 FC-10.0060 BSP 9930
 BOE 1.8440 BRA .5552 BC3 2.1009 FSP -5088

MID-COURSE EXECUTION ACCURACY

SGT 2912.1 SGR 1742.6 SG3 1504.3
 RRT .9792 RRF .9937 RTF .9735
 SGB 3393.7 R23 .1468 R13 .9828
 SG1 3380.0 SG2 304.9 THA 30.64

ORBIT DETERMINATION ACCURACY

ST 2362.2 SR 1426.9 SS 3417.6
 CRT .9984 CRS -.9993 CST -.9957
 LSA 4388.9 MSA 181.5 SSA 6.0
 EL1 2758.8 EL2 68.6 ALF 31.12

LAUNCH DATE DEC 22 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 472.402

RL 147.16 LAL .00 LOL 90.22 VL 27.758 GAL 3.09 AZL 85.35 MCA 210.92 SMA 128.45 ECC .15512 INC 4.6494 V1 30.275
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.461 GAP 1.82 AZP 93.99 TAL 162.74 TAP 13.66 RCA 108.52 APO 148.37 V2 34.787
 RC 98.436 GL 35.97 GP -19.67 ZAL 65.23 ZAP 112.08 ETS 352.99 ZAE 146.80 ETE 213.51 ZAC 105.98 ETC 171.59 CLP -113.53

PLANETOCENTRIC CONIC

C3 14.633 VHL 3.825 DLA 44.96 RAL 12.50 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 3.060 OPA -17.74 RAP 16.65 ECC 1.2408
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.49 20 17 4 4166.83 -32.78 189.24 242.37 57.31 21 26 31 3566.8 -36.82 181.25
 126.51 3 58 23 2761.92 -32.77 80.44 242.36 57.30 4 44 25 2161.9 -36.81 72.45
 53.49 20 17 4 4166.83 -32.78 189.24 242.37 57.31 21 26 31 3566.8 -36.82 181.25
 126.51 3 58 23 2761.92 -32.77 80.44 242.36 57.30 4 44 25 2161.9 -36.81 72.45
 53.49 20 17 4 4166.83 -32.78 189.24 242.37 57.31 21 26 31 3566.8 -36.82 181.25
 126.51 3 58 23 2761.92 -32.77 80.44 242.36 57.30 4 44 25 2161.9 -36.81 72.45

DIFFERENTIAL CORRECTIONS

TDE 1.7245 TRA .5429 TC3-2.2097 BAU .4548
 RDE .8161 RRA .3356 RC3 -.7231 FAU .16779
 FDE 8.0968 FRA 4.2842 FC3-9.9269 BSP 10675
 BOE 1.9079 BRA .6382 BC3 2.3250 FSP -4971

MID-COURSE EXECUTION ACCURACY

SGT 3294.0 SGR 1518.1 SG3 1463.7
 RRT .9816 RRF .9902 RTF .9782
 SGB 3627.0 R23 .1247 R13 .9829
 SG1 3617.4 SG2 263.8 THA 24.48

ORBIT DETERMINATION ACCURACY

ST 2606.4 SR 1240.9 SS 3286.2
 CRT .9992 CRS -.9988 CST -.9961
 LSA 4370.3 MSA 180.4 SSA 6.6
 EL1 2886.3 EL2 45.2 ALF 25.45

LAUNCH DATE DEC 22 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 27.751 GAL 3.20 AZL 85.51 HCA 214.08 SMA 128.40 ECC .15616 INC 4.4942 V1 30.275
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.454 GAP 2.19 AZP 93.72 TAL 162.27 TAP 16.35 RCA 108.35 APO 148.45 V2 34.785
 RC 100.837 GL 34.79 GP -17.57 ZAL 64.26 ZAP 116.65 ETS 352.08 ZAE 145.25 ETE 207.23 ZAC 104.32 ETC 170.56 CLP-118.07

PLANETOCENTRIC CONIC
 C3 14.483 VHL 3.806 CLA 44.21 RAL 14.04 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.127 OPA -16.41 RAP 14.47 ECC 1.2383
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.51 20 27 9 4154.23 -32.37 187.79 243.39 58.07 21 36 23 3554.2 -36.33 179.78
 125.49 4 0 37 2769.93 -32.36 80.87 243.38 58.06 4 46 47 2169.9 -36.32 72.86
 54.51 20 27 9 4154.23 -32.37 187.79 243.39 58.07 21 36 23 3554.2 -36.33 179.78
 125.49 4 0 37 2769.93 -32.36 80.87 243.38 58.06 4 46 47 2169.9 -36.32 72.86
 54.51 20 27 9 4154.23 -32.37 187.79 243.39 58.07 21 36 23 3554.2 -36.33 179.78
 125.49 4 0 37 2769.93 -32.36 80.87 243.38 58.06 4 46 47 2169.9 -36.32 72.86

DIFFERENTIAL CORRECTIONS
 TOE 1.8488 TRA .6734 TC3-2.4732 BAU .4930
 RDE .7097 RRA .2992 RC3 -.6059 FAU .16106
 FDE 7.5014 FRA 4.3082 FC3-9.6278 BSP 11551
 BOE 1.9804 BRA .7368 BC3 2.5463 FSP -4804

MID-COURSE EXECUTION ACCURACY
 SGT 3645.8 SGR 1322.5 SG3 1401.5
 RRT .9812 RRF .9850 RTF .9812
 SGB 3878.2 R23 .0936 R13 .9835
 SG1 3870.7 SG2 240.6 THA 19.67

ORBIT DETERMINATION ACCURACY
 ST 2816.2 SR 1085.0 SS 3138.4
 CRT .9997 CRS -.9981 CST -.9964
 LSA 4350.4 MSA 179.0 SSA 7.3
 EL1 3017.9 EL2 24.8 ALF 21.07

LAUNCH DATE DEC 22 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 27.742 GAL 3.31 AZL 85.64 HCA 217.24 SMA 128.34 ECC .15739 INC 4.3624 V1 30.275
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.447 GAP 2.55 AZP 93.48 TAL 161.76 TAP 19.00 RCA 108.14 APO 148.54 V2 34.784
 RC 103.240 GL 33.68 GP -15.77 ZAL 63.26 ZAP 120.94 ETS 351.41 ZAE 143.47 ETE 202.21 ZAC 102.97 ETC 169.79 CLP-122.29

PLANETOCENTRIC CONIC
 C3 14.434 VHL 3.799 CLA 43.53 RAL 15.57 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 3.215 OPA -15.22 RAP 12.70 ECC 1.2375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.44 20 36 53 4143.81 -31.96 186.55 244.54 58.70 21 45 57 3543.8 -35.84 178.53
 124.56 4 3 4 2778.85 -31.95 81.38 244.53 58.69 4 49 23 2178.8 -35.83 73.36
 55.44 20 36 53 4143.81 -31.96 186.55 244.54 58.70 21 45 57 3543.8 -35.84 178.53
 124.56 4 3 4 2778.85 -31.95 81.38 244.53 58.69 4 49 23 2178.8 -35.83 73.36
 55.44 20 36 53 4143.81 -31.96 186.55 244.54 58.70 21 45 57 3543.8 -35.84 178.53
 124.56 4 3 4 2778.85 -31.95 81.38 244.53 58.69 4 49 23 2178.8 -35.83 73.36

DIFFERENTIAL CORRECTIONS
 TOE 1.9579 TRA .8049 TC3-2.7059 BAU .5309
 RDE .6248 RRA .2655 RC3 -.4972 FAU .15253
 FDE 6.9022 FRA 4.2794 FC3-9.1489 BSP 12454
 BOE 2.0532 BRA .8476 BC3 2.7512 FSP -4582

MID-COURSE EXECUTION ACCURACY
 SGT 3968.6 SGR 1155.7 SG3 1327.1
 RRT .9776 RRF .9775 RTF .9832
 SGB 4133.4 R23 .0613 R13 .9843
 SG1 4126.8 SG2 233.9 THA 15.94

ORBIT DETERMINATION ACCURACY
 ST 2995.8 SR 956.8 SS 2985.9
 CRT .9999 CRS -.9970 CST -.9966
 LSA 4332.9 MSA 177.8 SSA 8.0
 EL1 3144.9 EL2 9.4 ALF 17.71

LAUNCH DATE DEC 22 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 27.732 GAL 3.45 AZL 85.75 HCA 220.40 SMA 128.27 ECC .15880 INC 4.2485 V1 30.275
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.439 GAP 2.92 AZP 93.24 TAL 161.21 TAP 21.60 RCA 107.90 APO 148.64 V2 34.783
 RC 105.643 GL 32.62 GP -14.21 ZAL 62.24 ZAP 124.94 ETS 350.91 ZAE 141.61 ETE 198.23 ZAC 101.94 ETC 169.24 CLP-126.22

PLANETOCENTRIC CONIC
 C3 14.471 VHL 3.804 CLA 42.92 RAL 17.10 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 3.322 OPA -14.12 RAP 11.33 ECC 1.2382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.29 20 46 26 4135.15 -31.53 185.47 245.82 59.23 21 55 21 3535.2 -35.35 177.46
 123.71 4 5 44 2788.66 -31.52 81.95 245.82 59.21 4 52 12 2188.7 -35.34 73.94
 56.29 20 46 26 4135.15 -31.53 185.47 245.82 59.23 21 55 21 3535.2 -35.35 177.46
 123.71 4 5 44 2788.66 -31.52 81.95 245.82 59.21 4 52 12 2188.7 -35.34 73.94
 56.29 20 46 26 4135.15 -31.53 185.47 245.82 59.23 21 55 21 3535.2 -35.35 177.46
 123.71 4 5 44 2788.66 -31.52 81.95 245.82 59.21 4 52 12 2188.7 -35.34 73.94

DIFFERENTIAL CORRECTIONS
 TOE 2.0531 TRA .9376 TC3-2.9057 BAU .5674
 RDE .5575 RRA .2348 RC3 -.3991 FAU .14293
 FDE 6.3206 FRA 4.2116 FC3-8.5507 BSP 13340
 BOE 2.1274 BRA .9665 BC3 2.9330 FSP -4328

MID-COURSE EXECUTION ACCURACY
 SGT 4262.3 SGR 1015.2 SG3 1246.0
 RRT .9705 RRF .9667 RTF .9846
 SGB 4381.6 R23 .0339 R13 .9851
 SG1 4375.1 SG2 238.6 THA 13.05

ORBIT DETERMINATION ACCURACY
 ST 3146.6 SR 852.2 SS 2832.8
 CRT .9998 CRS -.9954 CST -.9967
 LSA 4315.2 MSA 176.7 SSA 8.6
 EL1 3259.9 EL2 14.4 ALF 15.15

LAUNCH DATE DEC 22 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 147.16 LAL .00 LOL 90.22 VL 27.721 GAL 3.59 AZL 85.85 HCA 223.56 SMA 128.19 ECC .16041 INC 4.1484 V1 30.275
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.430 GAP 3.28 AZP 93.01 TAL 160.61 TAP 24.17 RCA 107.63 APO 148.75 V2 34.783
 RC 108.045 GL 31.60 GP -12.86 ZAL 61.18 ZAP 128.66 ETS 350.54 ZAE 139.78 ETE 195.07 ZAC 101.21 ETC 168.84 CLP-129.85

PLANETOCENTRIC CONIC
 C3 14.587 VHL 3.819 CLA 42.35 RAL 18.64 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 3.444 OPA -13.09 RAP 10.31 ECC 1.2401
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.09 20 55 53 4127.97 -31.10 184.54 247.23 59.67 22 4 41 3528.0 -34.86 176.54
 122.91 4 8 35 2799.38 -31.08 82.59 247.22 59.65 4 55 14 2199.4 -34.85 74.60
 57.09 20 55 53 4127.97 -31.10 184.54 247.23 59.67 22 4 41 3528.0 -34.86 176.54
 122.91 4 8 35 2799.38 -31.08 82.59 247.22 59.65 4 55 14 2199.4 -34.85 74.60
 57.09 20 55 53 4127.97 -31.10 184.54 247.23 59.67 22 4 41 3528.0 -34.86 176.54
 122.91 4 8 35 2799.38 -31.08 82.59 247.22 59.65 4 55 14 2199.4 -34.85 74.60

DIFFERENTIAL CORRECTIONS
 TOE 2.1365 TRA 1.0725 TC3-3.0718 BAU .6022
 RDE .5048 RRA .2074 RC3 -.3128 FAU .13286
 FDE 5.7721 FRA 4.1211 FC3-7.8851 BSP 14189
 BOE 2.1954 BRA 1.0923 BC3 3.0877 FSP -4062

MID-COURSE EXECUTION ACCURACY
 SGT 4529.6 SGR 898.7 SG3 1163.1
 RRT .9590 RRF .9520 RTF .9855
 SGB 4617.9 R23 .0139 R13 .9857
 SG1 4611.1 SG2 250.1 THA 10.81

ORBIT DETERMINATION ACCURACY
 ST 3271.8 SR 767.7 SS 2683.2
 CRT .9993 CRS -.9931 CST -.9967
 LSA 4296.8 MSA 175.9 SSA 9.2
 EL1 3360.5 EL2 28.2 ALF 13.20

LAUNCH DATE DEC 22 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 503.166

RL 147.16 LAL .00 LOL 90.22 VL 27.708 GAL 3.75 AZL 85.94 MCA 226.72 SMA 128.10 ECC .16220 INC 4.0593 V1 30.275
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.422 GAP 3.64 AZP 92.79 TAL 159.97 TAP 26.69 RCA 107.32 APO 148.88 V2 34.784
 RC 110.446 GL 30.61 GP -11.68 ZAL 60.08 ZAP 132.11 ETS 350.27 ZAE 138.03 ETE 192.57 ZAC 100.76 ETC 168.56 CLP-133.21

PLANETOCENTRIC CONIC

C3 14.776 VHL 3.844 DLA 41.81 RAL 20.21 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 3.580 DPA -12.11 RAP 9.61 ECC 1.2432
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.85 21 5 21 4122.04 -30.64 183.71 248.75 60.04 22 14 3 3522.0 -34.37 175.73
 122.15 4 11 36 2811.04 -30.63 83.31 248.74 60.02 4 58 27 2211.0 -34.36 75.33
 57.85 21 5 21 4122.04 -30.64 183.71 248.75 60.04 22 14 3 3522.0 -34.37 175.73
 122.15 4 11 36 2811.04 -30.63 83.31 248.74 60.02 4 58 27 2211.0 -34.36 75.33
 57.85 21 5 21 4122.04 -30.64 183.71 248.75 60.04 22 14 3 3522.0 -34.37 175.73
 122.15 4 11 36 2811.04 -30.63 83.31 248.74 60.02 4 58 27 2211.0 -34.36 75.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2118 TRA 1.2125 TC3-3.1982 BAU .6335 SGT 4774.2 SGR 804.3 SG3 1082.1 ST 3376.9 SR 700.8 SS 2542.4
 RDE .4643 RRA .1837 RC3 -.2366 FAU .12232 RRT .9425 RRF .9327 RTF .9861 CRT .9981 CRS -.9901 CST -.9967
 FDE 5.2706 FRA 4.0249 FC3-7.1664 BSP 14935 SGB 4841.4 R23 .0011 R13 .9861 LSA 4281.0 MSA 175.5 SSA 9.9
 BDE 2.2600 BRA 1.2263 BC3 3.2069 FSP -3775 SG1 4834.2 SG2 265.4 TMA 9.05 EL1 3448.6 EL2 41.8 ALF 11.70

LAUNCH DATE DEC 22 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 509.258

RL 147.16 LAL .00 LOL 90.22 VL 27.694 GAL 3.92 AZL 86.02 MCA 229.88 SMA 128.01 ECC .16419 INC 3.9791 V1 30.275
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.413 GAP 4.00 AZP 92.57 TAL 159.29 TAP 29.17 RCA 106.99 APO 149.02 V2 34.786
 RC 112.844 GL 29.63 GP -10.66 ZAL 58.95 ZAP 135.30 ETS 350.07 ZAE 136.39 ETE 190.56 ZAC 100.59 ETC 168.38 CLP-136.33

PLANETOCENTRIC CONIC

C3 15.037 VHL 3.878 DLA 41.29 RAL 21.80 RAD 6567.6 VEL 11.680 PTH 2.05 VHP 3.727 DPA -11.17 RAP 9.22 ECC 1.2475
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.59 21 14 51 4117.18 -30.17 182.97 250.38 60.35 22 23 29 3517.2 -33.86 175.02
 121.41 4 14 45 2823.70 -30.15 84.09 250.37 60.34 5 1 49 2223.7 -33.85 76.14
 58.59 21 14 51 4117.18 -30.17 182.97 250.38 60.35 22 23 29 3517.2 -33.86 175.02
 121.41 4 14 45 2823.70 -30.15 84.09 250.37 60.34 5 1 49 2223.7 -33.85 76.14
 58.59 21 14 51 4117.18 -30.17 182.97 250.38 60.35 22 23 29 3517.2 -33.86 175.02
 121.41 4 14 45 2823.70 -30.15 84.09 250.37 60.34 5 1 49 2223.7 -33.85 76.14

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2750 TRA 1.3534 TC3-3.2985 BAU .6640 SGT 4992.7 SGR 727.5 SG3 1002.9 ST 3455.8 SR 646.8 SS 2402.6
 RDE .4329 RRA .1623 RC3 -.1736 FAU .11255 RRT .9208 RRF .9083 RTF .9865 CRT .9963 CRS -.9862 CST -.9967
 FDE 4.8006 FRA 3.9115 FC3-6.4799 BSP 15688 SGB 5045.4 R23 -.0077 R13 .9865 LSA 4254.7 MSA 175.3 SSA 10.5
 BDE 2.3158 BRA 1.3631 BC3 3.3031 FSP -3517 SG1 5037.5 SG2 281.2 TMA 7.67 EL1 3515.4 EL2 54.7 ALF 10.57

LAUNCH DATE DEC 22 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 515.328

RL 147.16 LAL .00 LOL 90.22 VL 27.679 GAL 4.11 AZL 86.09 MCA 233.04 SMA 127.90 ECC .16638 INC 3.9059 V1 30.275
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.404 GAP 4.37 AZP 92.35 TAL 158.58 TAP 31.62 RCA 106.62 APO 149.18 V2 34.789
 RC 115.239 GL 28.67 GP -9.77 ZAL 57.78 ZAP 138.26 ETS 349.92 ZAE 134.88 ETE 188.94 ZAC 100.65 ETC 168.27 CLP-139.21

PLANETOCENTRIC CONIC

C3 15.368 VHL 3.920 DLA 40.79 RAL 23.41 RAD 6567.6 VEL 11.694 PTH 2.06 VHP 3.886 DPA -10.25 RAP 9.08 ECC 1.2529
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.32 21 24 26 4113.29 -29.67 182.31 252.10 60.62 22 33 0 3513.3 -33.34 174.38
 120.68 4 18 1 2837.38 -29.66 84.95 252.10 60.60 5 5 18 2237.4 -33.33 77.02
 59.32 21 24 26 4113.29 -29.67 182.31 252.10 60.62 22 33 0 3513.3 -33.34 174.38
 120.68 4 18 1 2837.38 -29.66 84.95 252.10 60.60 5 5 18 2237.4 -33.33 77.02
 59.32 21 24 26 4113.29 -29.67 182.31 252.10 60.62 22 33 0 3513.3 -33.34 174.38
 120.68 4 18 1 2837.38 -29.66 84.95 252.10 60.60 5 5 18 2237.4 -33.33 77.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3304 TRA 1.4989 TC3-3.3678 BAU .6924 SGT 5191.0 SGR 666.9 SG3 928.2 ST 3515.8 SR 604.6 SS 2270.0
 RDE .4097 RRA .1439 RC3 -.1211 FAU .10320 RRT .8938 RRF .8791 RTF .9867 CRT .9937 CRS -.9813 CST -.9966
 FDE 4.3738 FRA 3.7985 FC3-5.8134 BSP 16382 SGB 5233.7 R23 -.0129 R13 .9867 LSA 4224.8 MSA 175.7 SSA 11.0
 BDE 2.3662 BRA 1.5058 BC3 3.3700 FSP -3268 SG1 5225.2 SG2 297.1 TMA 6.57 EL1 3566.8 EL2 67.0 ALF 9.70

LAUNCH DATE DEC 22 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 521.376

RL 147.16 LAL .00 LOL 90.22 VL 27.663 GAL 4.32 AZL 86.16 MCA 236.20 SMA 127.80 ECC .16878 INC 3.8386 V1 30.275
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.396 GAP 4.74 AZP 92.14 TAL 157.83 TAP 34.03 RCA 106.23 APO 149.36 V2 34.792
 RC 117.630 GL 27.71 GP -8.99 ZAL 56.58 ZAP 141.01 ETS 349.81 ZAE 133.49 ETE 187.63 ZAC 100.94 ETC 168.20 CLP-141.90

PLANETOCENTRIC CONIC

C3 15.772 VHL 3.971 DLA 40.30 RAL 25.04 RAD 6567.6 VEL 11.711 PTH 2.06 VHP 4.054 DPA -9.34 RAP 9.19 ECC 1.2596
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.04 21 34 10 4110.12 -29.15 181.71 253.92 60.84 22 42 40 3510.1 -32.79 173.81
 119.96 4 21 17 2852.27 -29.14 85.88 253.92 60.83 5 8 50 2252.3 -32.78 77.99
 60.04 21 34 10 4110.12 -29.15 181.71 253.92 60.84 22 42 40 3510.1 -32.79 173.81
 119.96 4 21 17 2852.27 -29.14 85.88 253.92 60.83 5 8 50 2252.3 -32.78 77.99
 60.04 21 34 10 4110.12 -29.15 181.71 253.92 60.84 22 42 40 3510.1 -32.79 173.81
 119.96 4 21 17 2852.27 -29.14 85.88 253.92 60.83 5 8 50 2252.3 -32.78 77.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3788 TRA 1.6500 TC3-3.4072 BAU .7186 SGT 5370.7 SGR 619.9 SG3 858.3 ST 3558.2 SR 571.8 SS 2144.6
 RDE .3931 RRA .1282 RC3 -.0779 FAU .09436 RRT .8623 RRF .8459 RTF .9869 CRT .9902 CRS -.9755 CST -.9966
 FDE 3.9875 FRA 3.6876 FC3-5.1796 BSP 17028 SGB 5406.3 R23 -.0157 R13 .9869 LSA 4190.0 MSA 176.6 SSA 11.5
 BDE 2.4110 BRA 1.6550 BC3 3.4081 FSP -3034 SG1 5397.3 SG2 312.4 TMA 5.70 EL1 3603.0 EL2 78.9 ALF 9.05

LAUNCH DATE DEC 22 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

RL 147.16 LAL .00 LOL 90.22 VL 27.646 GAL 4.54 AZL 86.22 HCA 239.36 SMA 127.68 ECC .17140 INC 3.7761 V1 30.275
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.387 GAP 5.11 AZP 91.93 TAL 157.05 TAP 36.41 RCA 105.80 APO 149.57 V2 34.796
 RC 120.015 GL 26.76 GP -8.31 ZAL 55.35 ZAP 143.57 ETS 349.70 ZAE 132.23 ETE 186.55 ZAC 101.43 ETC 168.18 CLP-144.40

PLANETOCENTRIC CONIC

C3 16.253 VHL 4.031 DLA 39.81 RAL 26.69 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 4.232 DPA -8.45 RAP 9.50 ECC 1.2675
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.75 21 44 2 4107.68 -28.61 181.16 255.84 61.04 22 52 30 3507.7 -32.23 173.30
 119.25 4 24 35 2868.35 -28.60 86.90 255.83 61.03 5 12 24 2268.3 -32.22 79.04
 60.75 21 44 2 4107.68 -28.61 181.16 255.84 61.04 22 52 30 3507.7 -32.23 173.30
 119.25 4 24 35 2868.35 -28.60 86.90 255.83 61.03 5 12 24 2268.3 -32.22 79.04
 60.75 21 44 2 4107.68 -28.61 181.16 255.84 61.04 22 52 30 3507.7 -32.23 173.30
 119.25 4 24 35 2868.35 -28.60 86.90 255.83 61.03 5 12 24 2268.3 -32.22 79.04

DIFFERENTIAL CORRECTIONS

TOE 2.4213 TRA 1.8077 TC3-3.4178 BAU .7427
 RDE .3822 RRA .1150 RC3 -.0430 FAU .08606
 FDE 3.6393 FRA 3.5820 FC3-4.5839 BSP 17615
 BOE 2.4513 BRA 1.8113 BC3 3.4181 FSP -2814

MID-COURSE EXECUTION ACCURACY

SGT 5533.8 SGR 584.3 SG3 793.5
 RRT .8276 RRF .8101 RTF .9868
 SGB 5564.6 R23 -.0168 R13 .9868
 SGI 5555.0 SG2 326.7 THA 5.01

ORBIT DETERMINATION ACCURACY

ST 3585.5 SR 546.9 SS 2026.4
 CRT .9859 CRS -.9687 CST -.9965
 LSA 4150.8 MSA 178.1 SSA 12.0
 EL1 3625.8 EL2 90.5 ALF 8.56

LAUNCH DATE DEC 22 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

RL 147.16 LAL .00 LOL 90.22 VL 27.629 GAL 4.78 AZL 86.28 HCA 242.53 SMA 127.56 ECC .17424 INC 3.7175 V1 30.275
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.378 GAP 5.49 AZP 91.72 TAL 156.24 TAP 36.77 RCA 105.33 APO 149.79 V2 34.800
 RC 122.394 GL 25.81 GP -7.70 ZAL 54.09 ZAP 145.95 ETS 349.61 ZAE 131.09 ETE 185.67 ZAC 102.09 ETC 168.18 CLP-146.73

PLANETOCENTRIC CONIC

C3 16.814 VHL 4.101 DLA 39.33 RAL 28.35 RAD 6567.7 VEL 11.756 PTH 2.07 VHP 4.419 DPA -7.56 RAP 10.00 ECC 1.2767
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.48 21 54 3 4105.86 -28.04 180.65 257.83 61.21 23 2 29 3505.9 -31.65 172.83
 118.52 4 27 51 2885.72 -28.03 88.01 257.82 61.19 5 15 56 2285.7 -31.63 80.19
 61.48 21 54 3 4105.86 -28.04 180.65 257.83 61.21 23 2 29 3505.9 -31.65 172.83
 118.52 4 27 51 2885.72 -28.03 88.01 257.82 61.19 5 15 56 2285.7 -31.63 80.19
 61.48 21 54 3 4105.86 -28.04 180.65 257.83 61.21 23 2 29 3505.9 -31.65 172.83
 118.52 4 27 51 2885.72 -28.03 88.01 257.82 61.19 5 15 56 2285.7 -31.63 80.19

DIFFERENTIAL CORRECTIONS

TOE 2.4608 TRA 1.9746 TC3-3.3971 BAU .7636
 RDE .3760 RRA .1043 RC3 -.0149 FAU .07811
 FDE 3.3305 FRA 3.4864 FC3-4.0217 BSP 18100
 BOE 2.4893 BRA 1.9774 BC3 3.3972 FSP -2599

MID-COURSE EXECUTION ACCURACY

SGT 5684.0 SGR 558.3 SG3 734.1
 RRT .7917 RRF .7740 RTF .9867
 SGB 5711.4 R23 -.0164 R13 .9866
 SGI 5701.2 SG2 340.0 THA 4.46

ORBIT DETERMINATION ACCURACY

ST 3602.0 SR 528.5 SS 1917.8
 CRT .9809 CRS -.9613 CST -.9965
 LSA 4110.9 MSA 180.2 SSA 12.4
 EL1 3639.2 EL2 101.8 ALF 8.20

LAUNCH DATE DEC 22 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

RL 147.16 LAL .00 LOL 90.22 VL 27.610 GAL 5.03 AZL 86.34 HCA 245.69 SMA 127.44 ECC .17733 INC 3.6622 V1 30.275
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.369 GAP 5.87 AZP 91.51 TAL 155.40 TAP 41.09 RCA 104.84 APO 150.04 V2 34.805
 RC 124.766 GL 24.86 GP -7.17 ZAL 52.81 ZAP 148.18 ETS 349.51 ZAE 130.05 ETE 184.94 ZAC 102.92 ETC 168.19 CLP-148.92

PLANETOCENTRIC CONIC

C3 17.463 VHL 4.179 DLA 38.85 RAL 30.02 RAD 6567.7 VEL 11.783 PTH 2.08 VHP 4.615 DPA -6.67 RAP 10.66 ECC 1.2874
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.22 22 4 14 4104.56 -27.44 180.17 259.90 61.35 23 12 39 3504.6 -31.03 172.39
 117.78 4 31 1 2904.49 -27.43 89.20 259.89 61.34 5 19 25 2304.5 -31.02 81.43
 62.22 22 4 14 4104.56 -27.44 180.17 259.90 61.35 23 12 39 3504.6 -31.03 172.39
 117.78 4 31 1 2904.49 -27.43 89.20 259.89 61.34 5 19 25 2304.5 -31.02 81.43
 62.22 22 4 14 4104.56 -27.44 180.17 259.90 61.35 23 12 39 3504.6 -31.03 172.39
 117.78 4 31 1 2904.49 -27.43 89.20 259.89 61.34 5 19 25 2304.5 -31.02 81.43

DIFFERENTIAL CORRECTIONS

TOE 2.4927 TRA 2.1467 TC3-3.3593 BAU .7843
 RDE .3735 RRA .0954 RC3 .0060 FAU .07107
 FDE 3.0473 FRA 3.3915 FC3-3.5234 BSP 18609
 BOE 2.5205 BRA 2.1488 BC3 3.3593 FSP -2414

MID-COURSE EXECUTION ACCURACY

SGT 5817.6 SGR 539.0 SG3 679.1
 RRT .7561 RRF .7384 RTF .9866
 SGB 5842.6 R23 -.0158 R13 .9865
 SGI 5831.9 SG2 351.8 THA 4.02

ORBIT DETERMINATION ACCURACY

ST 3601.8 SR 514.6 SS 1812.8
 CRT .9751 CRS -.9531 CST -.9964
 LSA 4060.8 MSA 182.8 SSA 12.7
 EL1 3636.6 EL2 112.9 ALF 7.94

LAUNCH DATE DEC 22 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

RL 147.16 LAL .00 LOL 90.22 VL 27.591 GAL 5.30 AZL 86.39 HCA 248.86 SMA 127.31 ECC .18067 INC 3.6096 V1 30.275
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.361 GAP 6.26 AZP 91.30 TAL 154.53 TAP 43.39 RCA 104.31 APO 150.31 V2 34.811
 RC 127.128 GL 23.91 GP -6.70 ZAL 51.51 ZAP 150.28 ETS 349.39 ZAE 129.12 ETE 184.33 ZAC 103.88 ETC 168.22 CLP-150.98

PLANETOCENTRIC CONIC

C3 18.206 VHL 4.267 DLA 38.36 RAL 31.70 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 4.820 DPA -5.78 RAP 11.47 ECC 1.2996
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.97 22 14 37 4103.68 -26.81 179.71 262.03 61.48 23 23 0 3503.7 -30.39 171.98
 117.03 4 34 2 2924.77 -26.79 90.50 262.02 61.46 5 22 47 2324.8 -30.38 82.77
 62.97 22 14 37 4103.68 -26.81 179.71 262.03 61.48 23 23 0 3503.7 -30.39 171.98
 117.03 4 34 2 2924.77 -26.79 90.50 262.02 61.46 5 22 47 2324.8 -30.38 82.77
 62.97 22 14 37 4103.68 -26.81 179.71 262.03 61.48 23 23 0 3503.7 -30.39 171.98
 117.03 4 34 2 2924.77 -26.79 90.50 262.02 61.46 5 22 47 2324.8 -30.38 82.77

DIFFERENTIAL CORRECTIONS

TOE 2.5207 TRA 2.3280 TC3-3.2989 BAU .8029
 RDE .3742 RRA .0887 RC3 .0216 FAU .06453
 FDE 2.7931 FRA 3.3046 FC3-3.0686 BSP 19073
 BOE 2.5483 BRA 2.3297 BC3 3.2989 FSP -2241

MID-COURSE EXECUTION ACCURACY

SGT 5939.2 SGR 525.3 SG3 628.7
 RRT .7226 RRF .7053 RTF .9863
 SGB 5962.4 R23 .0146 R13 .9863
 SGI 5951.4 SG2 362.4 THA 3.67

ORBIT DETERMINATION ACCURACY

ST 3590.9 SR 504.6 SS 1714.7
 CRT .9688 CRS -.9443 CST -.9963
 LSA 4006.8 MSA 186.2 SSA 13.0
 EL1 3624.1 EL2 123.9 ALF 7.76

LAUNCH DATE DEC 22 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 551.255

RL 147.16 LAL .00 LOL 90.22 VL 27.571 GAL 5.60 AZL 86.44 MCA 252.02 SMA 127.18 ECC .18429 INC 3.5591 V1 30.275
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.352 GAP 6.66 AZP 91.10 TAL 153.64 TAP 45.67 RCA 103.74 APO 150.61 V2 34.818
 RC 129.481 GL 22.97 GP -6.28 ZAL 50.19 ZAP 152.25 ETS 349.26 ZAE 128.27 ETE 183.82 ZAC 104.98 ETC 168.25 CLP-152.91

PLANETOCENTRIC CONIC

C3 19.053 VHL 4.365 DLA 37.86 RAL 33.38 RAD 6567.8 VEL 11.850 PTH 2.10 VHP 5.034 DPA -4.89 RAP 12.41 ECC 1.3136
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.74 22 25 9 4103.24 -26.15 179.27 264.24 61.58 23 33 32 3503.2 -29.73 171.59
 116.26 4 36 54 2946.56 -26.13 91.89 264.23 61.57 5 26 0 2346.6 -29.71 84.21
 63.74 22 25 9 4103.24 -26.15 179.27 264.24 61.58 23 33 32 3503.2 -29.73 171.59
 116.26 4 36 54 2946.56 -26.13 91.89 264.23 61.57 5 26 0 2346.6 -29.71 84.21
 63.74 22 25 9 4103.24 -26.15 179.27 264.24 61.58 23 33 32 3503.2 -29.73 171.59
 116.26 4 36 54 2946.56 -26.13 91.89 264.23 61.57 5 26 0 2346.6 -29.71 84.21

DIFFERENTIAL CORRECTIONS

TDE 2.5448 TRA 2.5189 TC3-3.2187 BAU .8199
 RDE .3777 RRA .0839 RC3 .0326 FAU .05849
 FDE 2.5640 FRA 3.2246 FC3-2.6577 BSP 19499
 BOE 2.5727 BRA 2.5203 BC3 3.2188 FSP -2082

MID-COURSE EXECUTION ACCURACY

SGT 6049.2 SGR 515.9 SG3 582.5
 RRT .6923 RRF .6758 RTF .9861
 SGB 6071.1 R23 -.0130 R13 .9860
 SG1 6059.8 SG2 371.6 THA 3.39

ORBIT DETERMINATION ACCURACY

ST 3569.9 SR 497.6 SS 1622.7
 CRT .9620 CRS -.9351 CST -.9963
 LSA 3948.2 MSA 190.1 SSA 13.2
 EL1 3601.9 EL2 134.7 ALF 7.65

LAUNCH DATE DEC 22 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 557.149

RL 147.16 LAL .00 LOL 90.22 VL 27.551 GAL 5.91 AZL 86.49 MCA 255.19 SMA 127.04 ECC .18819 INC 3.5104 V1 30.275
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.344 GAP 7.07 AZP 90.90 TAL 152.73 TAP 47.92 RCA 103.13 APO 150.95 V2 34.825
 RC 131.823 GL 22.03 GP -5.91 ZAL 48.87 ZAP 154.11 ETS 349.09 ZAE 127.51 ETE 183.40 ZAC 106.18 ETC 168.28 CLP-154.75

PLANETOCENTRIC CONIC

C3 20.014 VHL 4.474 DLA 37.36 RAL 35.05 RAD 6567.8 VEL 11.891 PTH 2.11 VHP 5.258 DPA -4.00 RAP 13.47 ECC 1.3294
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.54 22 35 53 4103.08 -25.46 178.84 266.50 61.68 23 44 16 3503.1 -29.03 171.21
 115.46 4 39 31 2970.06 -25.44 93.40 266.49 61.67 5 29 1 2370.1 -29.02 85.76
 64.54 22 35 53 4103.08 -25.46 178.84 266.50 61.68 23 44 16 3503.1 -29.03 171.21
 115.46 4 39 31 2970.06 -25.44 93.40 266.49 61.67 5 29 1 2370.1 -29.02 85.76
 64.54 22 35 53 4103.08 -25.46 178.84 266.50 61.68 23 44 16 3503.1 -29.03 171.21
 115.46 4 39 31 2970.06 -25.44 93.40 266.49 61.67 5 29 1 2370.1 -29.02 85.76

DIFFERENTIAL CORRECTIONS

TDE 2.5696 TRA 2.7233 TC3-3.1137 BAU .8332
 RDE .3838 RRA .0812 RC3 .0404 FAU .05269
 FDE 2.3627 FRA 3.1552 FC3-2.2790 BSP 19808
 BOE 2.5981 BRA 2.7245 BC3 3.1140 FSP -1926

MID-COURSE EXECUTION ACCURACY

SGT 6151.9 SGR 509.9 SG3 540.7
 RRT .6665 RRF .6514 RTF .9857
 SGB 6173.0 R23 -.0108 R13 .9857
 SG1 6161.3 SG2 379.6 THA 3.17

ORBIT DETERMINATION ACCURACY

ST 3545.4 SR 493.1 SS 1539.7
 CRT .9548 CRS -.9258 CST -.9963
 LSA 3891.8 MSA 194.4 SSA 13.3
 EL1 3576.6 EL2 145.4 ALF 7.58

LAUNCH DATE DEC 22 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 563.010

RL 147.16 LAL .00 LOL 90.22 VL 27.530 GAL 6.25 AZL 86.54 MCA 258.36 SMA 126.90 ECC .19241 INC 3.4632 V1 30.275
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.336 GAP 7.49 AZP 90.70 TAL 151.80 TAP 50.16 RCA 102.48 APO 151.32 V2 34.833
 RC 134.153 GL 21.09 GP -5.58 ZAL 47.54 ZAP 155.88 ETS 348.89 ZAE 126.82 ETE 183.04 ZAC 107.49 ETC 168.30 CLP-156.49

PLANETOCENTRIC CONIC

C3 21.104 VHL 4.594 DLA 36.85 RAL 36.72 RAD 6567.9 VEL 11.937 PTH 2.12 VHP 5.493 DPA -3.11 RAP 14.62 ECC 1.3473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.37 22 46 49 4103.13 -24.73 178.42 268.81 61.77 23 55 12 3503.1 -28.30 170.83
 114.63 4 41 51 2995.36 -24.72 95.02 268.80 61.75 5 31 47 2395.4 -28.29 87.43
 65.37 22 46 49 4103.13 -24.73 178.42 268.81 61.77 23 55 12 3503.1 -28.30 170.83
 114.63 4 41 51 2995.36 -24.72 95.02 268.80 61.75 5 31 47 2395.4 -28.29 87.43
 65.37 22 46 49 4103.13 -24.73 178.42 268.81 61.77 23 55 12 3503.1 -28.30 170.83
 114.63 4 41 51 2995.36 -24.72 95.02 268.80 61.75 5 31 47 2395.4 -28.29 87.43

DIFFERENTIAL CORRECTIONS

TDE 2.5871 TRA 2.9354 TC3-3.0022 BAU .8471
 RDE .3915 RRA .0800 RC3 .0443 FAU .04764
 FDE 2.1757 FRA 3.0874 FC3-1.9545 BSP 20181
 BOE 2.6166 BRA 2.9365 BC3 3.0025 FSP -1794

MID-COURSE EXECUTION ACCURACY

SGT 6241.1 SGR 505.7 SG3 501.9
 RRT .6446 RRF .6306 RTF .9854
 SGB 6261.6 R23 -.0091 R13 .9854
 SG1 6249.7 SG2 386.1 THA 3.00

ORBIT DETERMINATION ACCURACY

ST 3507.5 SR 489.8 SS 1459.0
 CRT .9471 CRS -.9160 CST -.9962
 LSA 3825.0 MSA 199.3 SSA 13.4
 EL1 3538.1 EL2 155.8 ALF 7.55

LAUNCH DATE DEC 22 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 568.837

RL 147.16 LAL .00 LOL 90.22 VL 27.509 GAL 6.61 AZL 86.58 MCA 261.53 SMA 126.76 ECC .19696 INC 3.4169 V1 30.275
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.328 GAP 7.93 AZP 90.50 TAL 150.86 TAP 52.39 RCA 101.79 APO 151.72 V2 34.841
 RC 136.471 GL 20.16 GP -5.28 ZAL 46.21 ZAP 157.56 ETS 348.64 ZAE 126.19 ETE 182.74 ZAC 108.88 ETC 168.32 CLP-158.15

PLANETOCENTRIC CONIC

C3 22.336 VHL 4.726 DLA 36.33 RAL 38.37 RAD 6567.9 VEL 11.988 PTH 2.14 VHP 5.739 DPA -2.22 RAP 15.87 ECC 1.3676
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.22 22 57 56 4103.40 -23.98 177.99 271.18 61.84 24 6 19 3503.4 -27.54 170.46
 113.78 4 43 53 3022.48 -23.96 96.76 271.17 61.83 5 34 16 2422.5 -27.53 89.23
 66.22 22 57 56 4103.40 -23.98 177.99 271.18 61.84 24 6 19 3503.4 -27.54 170.46
 113.78 4 43 53 3022.48 -23.96 96.76 271.17 61.83 5 34 16 2422.5 -27.53 89.23
 66.22 22 57 56 4103.40 -23.98 177.99 271.18 61.84 24 6 19 3503.4 -27.54 170.46
 113.78 4 43 53 3022.48 -23.96 96.76 271.17 61.83 5 34 16 2422.5 -27.53 89.23

DIFFERENTIAL CORRECTIONS

TDE 2.6031 TRA 3.1600 TC3-2.8754 BAU .8587
 RDE .4010 RRA .0807 RC3 .0459 FAU .04291
 FDE 2.0082 FRA 3.0266 FC3-1.6633 BSP 20513
 BOE 2.6338 BRA 3.1611 BC3 2.8757 FSP -1671

MID-COURSE EXECUTION ACCURACY

SGT 6321.4 SGR 503.0 SG3 466.4
 RRT .6271 RRF .6145 RTF .9850
 SGB 6341.4 R23 -.0072 R13 .9850
 SG1 6329.3 SG2 391.3 THA 2.87

ORBIT DETERMINATION ACCURACY

ST 3464.3 SR 487.5 SS 1384.5
 CRT .9391 CRS -.9060 CST -.9962
 LSA 3756.8 MSA 204.4 SSA 13.4
 EL1 3494.5 EL2 166.0 ALF 7.55

LAUNCH DATE DEC 22 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 574.624

RL 147.16 LAL .00 LOL 90.22 VL 27.487 GAL 6.99 AZL 86.63 MCA 264.70 SMA 126.61 ECC .20188 INC 3.3714 V1 30.275
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.320 GAP 8.38 AZP 90.31 TAL 149.90 TAP 54.60 RCA 101.05 APO 152.17 V2 34.850
 RC 138.775 GL 19.23 GP -5.01 ZAL 44.88 ZAP 159.16 ETS 348.33 ZAE 125.62 ETE 182.49 ZAC 110.36 ETC 168.32 CLP-159.74

PLANETOCENTRIC CONIC

C3 23.728 VHL 4.871 DLA 35.81 RAL 39.99 RAD 6568.0 VEL 12.046 PTH 2.15 VHP 5.997 OPA -1.33 RAP 17.20 ECC 1.3905
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.11 23 9 16 4103.71 -23.19 177.56 273.59 61.92 24 17 40 3503.7 -26.75 170.07
 112.89 4 45 32 3051.64 -23.17 98.64 273.58 61.91 5 36 24 2451.6 -26.74 91.15
 67.11 23 9 16 4103.71 -23.19 177.56 273.59 61.92 24 17 40 3503.7 -26.75 170.07
 112.89 4 45 32 3051.64 -23.17 98.64 273.58 61.91 5 36 24 2451.6 -26.74 91.15
 67.11 23 9 16 4103.71 -23.19 177.56 273.59 61.92 24 17 40 3503.7 -26.75 170.07
 112.89 4 45 32 3051.64 -23.17 98.64 273.58 61.91 5 36 24 2451.6 -26.74 91.15

DIFFERENTIAL CORRECTIONS

TOE 2.6169 TRA 3.3981 TC3-2.7374 BAU .8685
 ROE .4119 RRA .0832 RC3 .0456 FAU .03855
 FDE 1.8568 FRA 2.9722 FC3-1.4065 BSP 20821
 BDE 2.6492 BRA 3.3992 BC3 2.7378 FSP -1559

MID-COURSE EXECUTION ACCURACY

SGT 6393.4 SGR 501.2 SG3 434.0
 RRT .6139 RRF .6027 RTF .9847
 SGB 6413.1 R23 -.0053 R13 .9847
 SG1 6400.9 SG2 395.2 THA 2.77

ORBIT DETERMINATION ACCURACY

ST 3415.7 SR 485.8 SS 1315.2
 CRT .9308 CRS -.8959 CST -.9962
 LSA 3686.3 MSA 209.9 SSA 13.4
 EL1 3445.6 EL2 176.0 ALF 7.56

LAUNCH DATE DEC 22 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 580.370

RL 147.16 LAL .00 LOL 90.22 VL 27.465 GAL 7.41 AZL 86.67 MCA 267.88 SMA 126.47 ECC .20719 INC 3.3263 V1 30.275
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.313 GAP 8.85 AZP 90.12 TAL 148.94 TAP 56.81 RCA 100.26 APO 152.67 V2 34.860
 RC 141.087 GL 18.31 GP -4.77 ZAL 43.56 ZAP 180.69 ETS 347.95 ZAE 125.09 ETE 182.28 ZAC 111.90 ETC 168.30 CLP-161.27

PLANETOCENTRIC CONIC

C3 25.303 VHL 5.030 DLA 35.27 RAL 41.60 RAD 6568.0 VEL 12.111 PTH 2.17 VHP 6.268 OPA -.44 RAP 18.60 ECC 1.4164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.03 23 20 51 4103.97 -22.37 177.11 276.04 61.99 24 29 15 3504.0 -25.93 169.67
 111.97 4 46 45 3082.95 -22.35 100.65 276.03 61.98 5 38 8 2482.9 -25.92 93.22
 68.03 23 20 51 4103.97 -22.37 177.11 276.04 61.99 24 29 15 3504.0 -25.93 169.67
 111.97 4 46 45 3082.95 -22.35 100.65 276.03 61.98 5 38 8 2482.9 -25.92 93.22
 68.03 23 20 51 4103.97 -22.37 177.11 276.04 61.99 24 29 15 3504.0 -25.93 169.67
 111.97 4 46 45 3082.95 -22.35 100.65 276.03 61.98 5 38 8 2482.9 -25.92 93.22

DIFFERENTIAL CORRECTIONS

TOE 2.6296 TRA 3.6505 TC3-2.5898 BAU .8762
 ROE .4240 RRA .0874 RC3 .0438 FAU .03451
 FDE 1.7205 FRA 2.9236 FC3-1.1806 BSP 21097
 BDE 2.6635 BRA 3.6516 BC3 2.5902 FSP -1454

MID-COURSE EXECUTION ACCURACY

SGT 6457.5 SGR 500.1 SG3 404.2
 RRT .8048 RRF .5948 RTF .9843
 SGB 6476.8 R23 -.0035 R13 .9843
 SG1 6464.6 SG2 397.8 THA 2.69

ORBIT DETERMINATION ACCURACY

ST 3363.3 SR 484.3 SS 1251.3
 CRT .9223 CRS -.8857 CST -.9962
 LSA 3614.6 MSA 215.5 SSA 13.3
 EL1 3392.9 EL2 185.6 ALF 7.59

LAUNCH DATE DEC 22 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 586.068

RL 147.16 LAL .00 LOL 90.22 VL 27.443 GAL 7.85 AZL 86.72 MCA 271.05 SMA 126.32 ECC .21294 INC 3.2813 V1 30.275
 RP 108.68 LAP -3.28 LOP 357.06 VP 37.306 GAP 9.34 AZP 89.94 TAL 147.96 TAP 59.02 RCA 99.42 APO 153.22 V2 34.870
 RC 143.344 GL 17.40 GP -4.55 ZAL 42.25 ZAP 162.17 ETS 347.49 ZAE 124.61 ETE 182.11 ZAC 113.50 ETC 168.28 CLP-162.74

PLANETOCENTRIC CONIC

C3 27.084 VHL 5.204 DLA 34.73 RAL 43.17 RAD 6568.1 VEL 12.184 PTH 2.19 VHP 6.553 OPA .45 RAP 20.06 ECC 1.4457
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.99 23 32 39 4104.15 -21.52 176.64 278.52 62.06 24 41 3 3504.2 -25.08 169.25
 111.01 4 47 30 3116.46 -21.51 102.81 278.52 62.05 5 39 27 2516.5 -25.07 95.43
 68.99 23 32 39 4104.15 -21.52 176.64 278.52 62.06 24 41 3 3504.2 -25.08 169.25
 111.01 4 47 30 3116.46 -21.51 102.81 278.52 62.05 5 39 27 2516.5 -25.07 95.43
 68.99 23 32 39 4104.15 -21.52 176.64 278.52 62.06 24 41 3 3504.2 -25.08 169.25
 111.01 4 47 30 3116.46 -21.51 102.81 278.52 62.05 5 39 27 2516.5 -25.07 95.43

DIFFERENTIAL CORRECTIONS

TOE 2.6445 TRA 3.9218 TC3-2.4297 BAU .8799
 ROE .4373 RRA .0936 RC3 .0413 FAU .03061
 FDE 1.6001 FRA 2.8833 FC3 -.9786 BSP 21271
 BDE 2.6804 BRA 3.9229 BC3 2.4300 FSP -1352

MID-COURSE EXECUTION ACCURACY

SGT 6517.2 SGR 499.3 SG3 377.2
 RRT .5997 RRF .5911 RTF .9840
 SGB 6536.3 R23 -.0016 R13 .9840
 SG1 6524.1 SG2 399.2 THA 2.64

ORBIT DETERMINATION ACCURACY

ST 3311.6 SR 482.9 SS 1194.0
 CRT .9135 CRS -.8756 CST -.9963
 LSA 3546.3 MSA 221.0 SSA 13.2
 EL1 3340.9 EL2 194.7 ALF 7.61

LAUNCH DATE DEC 22 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 591.713

RL 147.16 LAL .00 LOL 90.22 VL 27.420 GAL 8.32 AZL 86.76 MCA 274.23 SMA 126.17 ECC .21917 INC 3.2363 V1 30.275
 RP 108.65 LAP -3.23 LOP 357.29 VP 37.299 GAP 9.86 AZP 89.76 TAL 146.99 TAP 61.22 RCA 98.52 APO 153.82 V2 34.880
 RC 145.608 GL 16.50 GP -4.35 ZAL 40.95 ZAP 163.59 ETS 346.92 ZAE 124.17 ETE 181.96 ZAC 115.15 ETC 168.23 CLP-164.16

PLANETOCENTRIC CONIC

C3 29.102 VHL 5.395 DLA 34.18 RAL 44.71 RAD 6568.2 VEL 12.267 PTH 2.21 VHP 6.855 OPA 1.34 RAP 21.58 ECC 1.4789
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.00 23 44 44 4104.02 -20.64 176.13 281.04 62.13 24 53 8 3504.0 -24.20 168.79
 110.00 4 47 42 3152.42 -20.63 105.13 281.04 62.12 5 40 14 2552.4 -24.19 97.80
 70.00 23 44 44 4104.02 -20.64 176.13 281.04 62.13 24 53 8 3504.0 -24.20 168.79
 110.00 4 47 42 3152.42 -20.63 105.13 281.04 62.12 5 40 14 2552.4 -24.19 97.80
 70.00 23 44 44 4104.02 -20.64 176.13 281.04 62.13 24 53 8 3504.0 -24.20 168.79
 110.00 4 47 42 3152.42 -20.63 105.13 281.04 62.12 5 40 14 2552.4 -24.19 97.80

DIFFERENTIAL CORRECTIONS

TOE 2.6544 TRA 4.2059 TC3-2.2704 BAU .8834
 ROE .4512 RRA .1014 RC3 .0378 FAU .02717
 FDE 1.4879 FRA 2.8453 FC3 -.8082 BSP 21515
 BDE 2.6924 BRA 4.2071 BC3 2.2707 FSP -1264

MID-COURSE EXECUTION ACCURACY

SGT 6565.6 SGR 498.2 SG3 352.1
 RRT .5973 RRF .5897 RTF .9837
 SGB 6584.5 R23 -.0001 R13 .9837
 SG1 6572.4 SG2 399.2 THA 2.60

ORBIT DETERMINATION ACCURACY

ST 3252.3 SR 480.8 SS 1139.1
 CRT .9043 CRS -.8652 CST -.9964
 LSA 3472.0 MSA 226.5 SSA 13.0
 EL1 3281.4 EL2 203.4 ALF 7.64

LAUNCH DATE DEC 22 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 597.298

RL 147.16 LAL .00 LOL 90.22 VL 27.398 GAL 8.83 AZL 86.81 MCA 277.41 SMA 126.02 ECC .22591 INC 3.1908 V1 30.275
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.292 GAP 10.40 AZP 89.59 TAL 146.02 TAP 63.42 RCA 97.55 APO 154.49 V2 34.891
 RC 147.857 GL 15.60 GP -4.18 ZAL 39.68 ZAP 164.97 ETS 346.21 ZAE 123.76 ETE 181.84 ZAC 116.85 ETC 168.15 CLP-165.55

PLANETOCENTRIC CONIC

C3 31.390 VML 5.603 DLA 33.63 RAL 46.21 RAD 6568.3 VEL 12.360 PTH 2.23 VHP 7.174 DPA 2.22 RAP 23.15 ECC 1.5166
 LNCH AZMTH LNCH TIME L-1 TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.05 0 1 3 4103.41 -19.73 175.57 283.59 62.20 1 9 27 3503.4 -23.30 168.28
 108.95 4 47 17 3191.00 -19.72 107.62 283.58 62.19 5 40 28 2591.0 -23.28 100.34
 71.05 0 1 3 4103.41 -19.73 175.57 283.59 62.20 1 9 27 3503.4 -23.30 168.28
 108.95 4 47 17 3191.00 -19.72 107.62 283.58 62.19 5 40 28 2591.0 -23.28 100.34
 110.00 5 40 18 3028.81 -24.36 97.48 286.06 65.25 6 30 47 2428.8 -27.49 89.71
 110.00 4 7 13 3313.60 -15.22 114.50 280.93 59.02 5 2 26 2713.6 -19.21 107.66

DIFFERENTIAL CORRECTIONS

TDE 2.6648 TRA 4.5088 TC3-2.1063 BAU .8840
 RDE .4658 RRA .1110 RC3 .0339 FAU .02392
 FDE 1.3872 FRA 2.8133 FC3 -.6598 BSP 21729
 BOE 2.7052 BRA 4.5102 BC3 2.1065 FSP -1183

MID-COURSE EXECUTION ACCURACY

SGT 6607.8 SGR 497.0 SG3 329.0
 RRT .5979 RRF .5912 RTF .9835
 SGB 6626.5 R23 .0013 R13 .9835
 SG1 6614.5 SG2 398.0 THA 2.58

ORBIT DETERMINATION ACCURACY

ST 3192.4 SR 478.2 SS 1089.2
 CRT .8950 CRS -.8548 CST -.9965
 LSA 3398.9 MSA 231.7 SSA 12.8
 EL1 3221.1 EL2 211.4 ALF 7.67

LAUNCH DATE DEC 22 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 602.814

RL 147.16 LAL .00 LOL 90.22 VL 27.375 GAL 9.38 AZL 86.86 MCA 280.59 SMA 125.87 ECC .23324 INC 3.1447 V1 30.275
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.286 GAP 10.97 AZP 89.42 TAL 145.05 TAP 65.64 RCA 96.51 APO 155.23 V2 34.902
 RC 150.092 GL 14.72 GP -4.01 ZAL 38.43 ZAP 166.30 ETS 345.34 ZAE 123.37 ETE 181.74 ZAC 118.59 ETC 168.06 CLP-166.90

PLANETOCENTRIC CONIC

C3 33.991 VML 5.830 DLA 33.07 RAL 47.67 RAD 6568.3 VEL 12.464 PTH 2.25 VHP 7.514 DPA 3.10 RAP 24.76 ECC 1.5594
 LNCH AZMTH LNCH TIME L-1 TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.16 0 13 49 4102.11 -18.80 174.95 286.16 62.28 1 22 11 3502.1 -22.36 167.71
 107.84 4 46 9 3232.42 -18.79 110.30 286.16 62.27 5 40 2 2632.4 -22.35 103.07
 72.16 0 13 49 4102.11 -18.80 174.95 286.16 62.28 1 22 11 3502.1 -22.36 167.71
 107.84 4 46 9 3232.42 -18.79 110.30 286.16 62.27 5 40 2 2632.4 -22.35 103.07
 110.00 6 5 29 2988.73 -25.48 94.90 289.63 66.40 6 55 18 2388.7 -28.45 86.98
 110.00 3 53 40 3393.80 -12.36 118.95 282.32 57.87 4 50 13 2793.8 -16.52 112.31

DIFFERENTIAL CORRECTIONS

TDE 2.6754 TRA 4.8314 TC3-1.9402 BAU .8818
 RDE .4811 RRA .1224 RC3 .0299 FAU .02091
 FDE 1.2964 FRA 2.7864 FC3 -.5325 BSP 21920
 BOE 2.7183 BRA 4.8330 BC3 1.9404 FSP -1107

MID-COURSE EXECUTION ACCURACY

SGT 6643.2 SGR 495.3 SG3 307.7
 RRT .6009 RRF .5950 RTF .9834
 SGB 6661.7 R23 .0025 R13 .9834
 SG1 6649.9 SG2 395.5 THA 2.57

ORBIT DETERMINATION ACCURACY

ST 3131.6 SR 474.7 SS 1043.6
 CRT .8853 CRS -.8445 CST -.9966
 LSA 3326.4 MSA 236.5 SSA 12.6
 EL1 3159.8 EL2 218.8 ALF 7.68

LAUNCH DATE DEC 22 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 608.251

RL 147.16 LAL .00 LOL 90.22 VL 27.351 GAL 9.97 AZL 86.90 MCA 283.77 SMA 125.72 ECC .24121 INC 3.0976 V1 30.275
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.280 GAP 11.58 AZP 89.26 TAL 144.09 TAP 67.87 RCA 95.40 APO 156.04 V2 34.914
 RC 152.312 GL 13.85 GP -3.87 ZAL 37.22 ZAP 167.61 ETS 344.25 ZAE 123.00 ETE 181.66 ZAC 120.35 ETC 167.94 CLP-168.22

PLANETOCENTRIC CONIC

C3 36.956 VML 6.079 DLA 32.50 RAL 49.08 RAD 6568.4 VEL 12.583 PTH 2.28 VHP 7.875 DPA 3.97 RAP 26.42 ECC 1.6082
 LNCH AZMTH LNCH TIME L-1 TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.33 0 27 2 4099.79 -17.84 174.24 288.76 62.37 1 35 21 3499.8 -21.40 167.05
 106.67 4 44 13 3276.97 -17.83 113.20 288.75 62.36 5 38 50 2677.0 -21.39 106.00
 73.33 0 27 2 4099.79 -17.84 174.24 288.76 62.37 1 35 21 3499.8 -21.40 167.05
 106.67 4 44 13 3276.97 -17.83 113.20 288.75 62.36 5 38 50 2677.0 -21.39 106.00
 110.00 6 26 1 2963.00 -26.17 93.22 292.99 67.18 7 15 24 2363.0 -29.03 85.20
 110.00 3 44 24 3461.77 -9.87 122.64 283.98 57.11 4 42 6 2861.8 -14.14 116.14

DIFFERENTIAL CORRECTIONS

TDE 2.6908 TRA 5.1798 TC3-1.7690 BAU .8741
 RDE .4969 RRA .1359 RC3 .0263 FAU .01795
 FDE 1.2168 FRA 2.7673 FC3 -.4206 BSP 22001
 BOE 2.7363 BRA 5.1816 BC3 1.7692 FSP -1032

MID-COURSE EXECUTION ACCURACY

SGT 6675.9 SGR 493.4 SG3 288.4
 RRT .6066 RRF .6014 RTF .9833
 SGB 6694.1 R23 .0036 R13 .9833
 SG1 6682.6 SG2 391.9 THA 2.58

ORBIT DETERMINATION ACCURACY

ST 3074.3 SR 470.6 SS 1003.8
 CRT .8757 CRS -.8346 CST -.9968
 LSA 3259.2 MSA 240.7 SSA 12.4
 EL1 3102.0 EL2 225.2 ALF 7.67

LAUNCH DATE DEC 22 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 613.597

RL 147.16 LAL .00 LOL 90.22 VL 27.328 GAL 10.61 AZL 86.95 MCA 286.96 SMA 125.57 ECC .24990 INC 3.0491 V1 30.275
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.274 GAP 12.22 AZP 89.11 TAL 143.15 TAP 70.11 RCA 94.19 APO 156.95 V2 34.926
 RC 154.516 GL 13.00 GP -3.73 ZAL 36.03 ZAP 168.88 ETS 342.86 ZAE 122.64 ETE 181.59 ZAC 122.15 ETC 167.78 CLP-169.51

PLANETOCENTRIC CONIC

C3 40.344 VML 6.352 DLA 31.93 RAL 50.45 RAD 6568.6 VEL 12.717 PTH 2.31 VHP 8.262 DPA 4.83 RAP 28.10 ECC 1.6640
 LNCH AZMTH LNCH TIME L-1 TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.58 0 40 47 4096.04 -16.86 173.42 291.37 62.47 1 49 3 3496.0 -20.41 166.27
 105.42 4 41 21 3325.05 -16.85 116.33 291.36 62.46 5 36 46 2725.1 -20.40 109.18
 74.58 0 40 47 4096.04 -16.86 173.42 291.37 62.47 1 49 3 3496.0 -20.41 166.27
 105.42 4 41 21 3325.05 -16.85 116.33 291.36 62.46 5 36 46 2725.1 -20.40 109.18
 110.00 6 44 2 2945.10 -26.64 92.04 296.24 67.74 7 33 7 2345.1 -29.42 83.96
 110.00 3 37 16 3324.00 -7.56 125.97 285.77 56.56 4 36 0 2924.0 -11.90 119.57

DIFFERENTIAL CORRECTIONS

TDE 2.7032 TRA 5.5480 TC3-1.6034 BAU .8649
 RDE .5130 RRA .1511 RC3 .0226 FAU .01531
 FDE 1.1427 FRA 2.7512 FC3 -.3285 BSP 22166
 BOE 2.7514 BRA 5.5500 BC3 1.6036 FSP -968

MID-COURSE EXECUTION ACCURACY

SGT 6698.5 SGR 490.6 SG3 270.3
 RRT .6137 RRF .6089 RTF .9834
 SGB 6716.4 R23 .0043 R13 .9834
 SG1 6705.3 SG2 387.0 THA 2.58

ORBIT DETERMINATION ACCURACY

ST 3013.2 SR 465.2 SS 966.3
 CRT .8657 CRS -.8245 CST -.9969
 LSA 3189.0 MSA 244.4 SSA 12.2
 EL1 3040.2 EL2 230.8 ALF 7.66

LAUNCH DATE DEC 23 1968

FLIGHT TIME 70.00

ARRIVAL DATE MAR 3 1969

HELIOCENTRIC CONIC

DISTANCE 140.685

RL 147.15 LAL .00 LOL 91.24 VL 18.775 GAL 16.95 AZL 85.94 MCA 48.06 SMA 91.44 ECC .65159 INC 4.0618 VI 30.277
 RP 107.48 LAP 3.02 LOP 139.22 VP 31.908 GAP -39.60 AZP 87.28 TAL 170.37 TAP 218.43 RCA 31.86 APO 151.02 V2 35.257
 RC 65.159 GL 5.36 GP 1.25 ZAL 65.86 ZAP 27.68 ETS 182.41 ZAE 143.72 ETE 191.42 ZAC 81.48 ETC 165.83 CLP 27.66

PLANETOCENTRIC CONIC

C3 185.505 VHL 13.620 DLA 14.84 RAL 21.61 RAD 6571.0 VEL 17.516 PTH 2.97 VHP 23.005 OPA -7.14 RAP 348.81 ECC 4.0529
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 35 3201.46 -26.07 110.85 286.91 78.54 5 36 57 2601.5 -27.39 102.43
 90.00 20 36 40 4885.20 20.21 212.13 274.15 69.73 21 58 5 4285.2 17.26 204.69
 100.00 6 12 57 2913.29 -27.86 90.05 287.32 78.70 7 1 30 2313.3 -29.13 81.48
 100.00 21 50 0 4648.60 21.91 194.05 273.46 69.14 23 7 29 4048.6 18.88 186.56
 110.00 7 39 5 2643.77 -32.59 70.66 288.39 79.06 8 23 9 2043.8 -33.75 61.62
 110.00 22 40 21 4490.89 26.39 180.13 271.51 67.44 23 55 12 3890.9 23.10 172.52

DIFFERENTIAL CORRECTIONS

TOE -.6400 TRA-1.6652 TC3 -.1125 BAU .2833
 RDE -.9698 RRA .3921 RC3 -.0199 FAU .01330
 FDE .3429 FRA .6468 FC3 -.0621 BSP 2242
 BDE 1.1620 BRA 1.7108 BC3 .1142 FSP -66

MID-COURSE EXECUTION ACCURACY

SGT 831.6 SGR 445.5 SG3 31.0
 RRT .0076 RRF -.0102 RTF -.6404
 SGB 943.4 R23 -.0034 R13 -.6404
 SG1 831.6 SG2 445.5 THA .33

ORBIT DETERMINATION ACCURACY

ST 346.2 SR 411.2 SS 332.4
 CRT .6936 CRS .7929 CST .9872
 LSA 590.2 MSA 225.5 SSA 13.7
 EL1 496.2 EL2 206.6 ALF 52.00

LAUNCH DATE DEC 23 1968

FLIGHT TIME 72.00

ARRIVAL DATE MAR 5 1969

HELIOCENTRIC CONIC

DISTANCE 146.698

RL 147.15 LAL .00 LOL 91.24 VL 19.434 GAL 16.23 AZL 86.02 MCA 51.30 SMA 93.06 ECC .62414 INC 3.9770 VI 30.277
 RP 107.49 LAP 3.10 LOP 142.47 VP 32.298 GAP -37.73 AZP 87.51 TAL 169.63 TAP 220.93 RCA 34.98 APO 151.14 V2 35.254
 RC 63.173 GL 5.73 GP 1.29 ZAL 64.78 ZAP 26.15 ETS 182.75 ZAE 144.39 ETE 192.10 ZAC 83.13 ETC 165.96 CLP 26.12

PLANETOCENTRIC CONIC

C3 168.231 VHL 12.970 DLA 15.59 RAL 22.52 RAD 6570.8 VEL 17.016 PTH 2.92 VHP 22.072 OPA -6.43 RAP 350.38 ECC 3.7687
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 40 21 3212.09 -25.93 111.59 286.89 78.19 5 33 53 2612.1 -27.29 103.19
 90.00 20 47 13 4842.17 19.17 209.40 273.88 68.75 22 7 55 4242.2 16.11 202.06
 100.00 6 10 16 2922.11 -27.74 90.68 287.31 78.39 6 58 58 2322.1 -29.06 82.13
 100.00 21 59 59 4607.38 20.89 191.41 273.16 68.12 23 16 46 4007.4 17.73 184.04
 110.00 7 37 35 2648.91 -32.52 71.05 288.42 78.84 8 21 44 2048.9 -33.72 62.02
 110.00 22 49 9 4453.34 25.39 177.67 271.10 66.30 24 3 23 3853.3 21.96 170.19

DIFFERENTIAL CORRECTIONS

TOE -.6403 TRA-1.6686 TC3 -.1187 BAU .2715
 RDE -.9343 RRA .3701 RC3 -.0222 FAU .01352
 FDE .3564 FRA .6700 FC3 -.0696 BSP 2357
 BDE 1.1327 BRA 1.7091 BC3 .1207 FSP -72

MID-COURSE EXECUTION ACCURACY

SGT 872.0 SGR 450.0 SG3 33.7
 RRT .0116 RRF -.0140 RTF -.6597
 SGB 981.2 R23 -.0035 R13 -.6597
 SG1 872.0 SG2 449.9 THA .47

ORBIT DETERMINATION ACCURACY

ST 364.4 SR 415.9 SS 348.0
 CRT .6933 CRS .7941 CST .9870
 LSA 610.8 MSA 231.5 SSA 13.9
 EL1 509.7 EL2 214.2 ALF 50.41

LAUNCH DATE DEC 23 1968

FLIGHT TIME 74.00

ARRIVAL DATE MAR 7 1969

HELIOCENTRIC CONIC

DISTANCE 152.797

RL 147.15 LAL .00 LOL 91.24 VL 20.050 GAL 15.52 AZL 86.10 MCA 54.55 SMA 94.67 ECC .59739 INC 3.8996 VI 30.277
 RP 107.50 LAP 3.18 LOP 145.72 VP 32.669 GAP -35.96 AZP 87.74 TAL 168.91 TAP 223.46 RCA 38.12 APO 151.23 V2 35.251
 RC 61.231 GL 6.10 GP 1.33 ZAL 63.76 ZAP 24.64 ETS 183.14 ZAE 145.19 ETE 192.83 ZAC 84.80 ETC 166.07 CLP 24.61

PLANETOCENTRIC CONIC

C3 152.646 VHL 12.355 DLA 16.32 RAL 23.38 RAD 6570.7 VEL 16.552 PTH 2.88 VHP 21.172 OPA -5.71 RAP 351.96 ECC 3.5122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 51 3221.90 -25.79 112.27 286.74 77.88 5 30 33 2621.9 -27.20 103.89
 90.00 20 57 33 4798.43 18.06 206.66 273.56 67.82 22 17 32 4198.4 14.90 199.41
 100.00 6 7 21 2930.05 -27.63 91.25 287.18 78.11 6 56 11 2330.0 -28.99 82.71
 100.00 22 9 45 4565.51 19.80 188.78 272.80 67.14 23 25 50 3965.5 16.54 181.51
 110.00 7 35 52 2653.07 -32.47 71.36 288.32 78.66 8 20 5 2053.1 -33.69 62.34
 110.00 22 57 42 4415.25 24.32 175.23 270.64 65.20 24 11 18 3815.3 20.77 167.88

DIFFERENTIAL CORRECTIONS

TOE -.6390 TRA-1.6693 TC3 -.1241 BAU .2583
 RDE -.8991 RRA .3483 RC3 -.0246 FAU .01377
 FDE .3701 FRA .6934 FC3 -.0781 BSP 2526
 BDE 1.1031 BRA 1.7052 BC3 .1266 FSP -80

MID-COURSE EXECUTION ACCURACY

SGT 912.5 SGR 453.7 SG3 36.6
 RRT .0156 RRF -.0181 RTF -.6786
 SGB 1019.0 R23 -.0040 R13 -.6786
 SG1 912.5 SG2 453.6 THA .59

ORBIT DETERMINATION ACCURACY

ST 382.7 SR 420.0 SS 364.0
 CRT .6928 CRS .7955 CST .9866
 LSA 631.6 MSA 237.2 SSA 14.1
 EL1 523.3 EL2 221.5 ALF 48.83

LAUNCH DATE DEC 23 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 9 1969

HELIOCENTRIC CONIC

DISTANCE 158.977

RL 147.15 LAL .00 LOL 91.24 VL 20.624 GAL 14.84 AZL 86.17 MCA 57.80 SMA 96.27 ECC .57140 INC 3.8283 VI 30.277
 RP 107.51 LAP 3.24 LOP 148.98 VP 33.020 GAP -34.28 AZP 87.96 TAL 168.21 TAP 226.01 RCA 41.26 APO 151.29 V2 35.248
 RC 59.338 GL 6.49 GP 1.38 ZAL 62.81 ZAP 23.15 ETS 183.56 ZAE 146.11 ETE 193.63 ZAC 86.48 ETC 166.17 CLP 23.11

PLANETOCENTRIC CONIC

C3 138.571 VHL 11.772 DLA 17.04 RAL 24.18 RAD 6570.5 VEL 16.121 PTH 2.84 VHP 20.305 OPA -4.97 RAP 353.55 ECC 3.2805
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 33 3 3230.96 -25.66 112.91 286.46 77.59 5 26 54 2631.0 -27.11 104.54
 90.00 21 7 43 4753.95 16.90 203.92 273.17 66.94 22 26 57 4154.0 13.63 196.76
 100.00 6 4 10 2937.15 -27.53 91.75 286.91 77.86 6 53 7 2337.2 -28.92 83.22
 100.00 22 19 18 4522.99 18.66 186.14 272.37 66.21 23 34 41 3923.0 15.28 178.97
 110.00 7 33 56 2656.29 -32.42 71.60 288.09 78.52 8 18 12 2056.3 -33.66 62.59
 110.00 23 6 1 4376.62 23.20 172.79 270.13 64.16 24 18 58 3776.6 19.53 165.57

DIFFERENTIAL CORRECTIONS

TOE -.6381 TRA-1.6690 TC3 -.1291 BAU .2444
 RDE -.8641 RRA .3267 RC3 -.0271 FAU .01406
 FDE .3844 FRA .7171 FC3 -.0878 BSP 2705
 BDE 1.0741 BRA 1.7006 BC3 .1319 FSP -89

MID-COURSE EXECUTION ACCURACY

SGT 954.3 SGR 456.8 SG3 39.7
 RRT .0200 RRF -.0227 RTF -.6967
 SGB 1058.0 R23 -.0046 R13 -.6967
 SG1 954.4 SG2 456.6 THA .71

ORBIT DETERMINATION ACCURACY

ST 401.9 SR 423.5 SS 380.5
 CRT .6928 CRS .7971 CST .9863
 LSA 653.2 MSA 242.4 SSA 14.3
 EL1 537.3 EL2 228.4 ALF 47.17

LAUNCH DATE DEC 23 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 11 1969

HELIOCENTRIC CONIC

DISTANCE 165.232

RL 147.15 LAL .00 LOL 91.24 VL 21.160 GAL 14.18 AZL 86.24 HCA 61.04 SMA 97.87 ECC .54623 INC 3.7619 V1 30.277
 RP 107.52 LAP 3.29 LOP 152.23 VP 33.353 GAP -32.68 AZP 88.18 TAL 167.53 TAP 228.58 RCA 44.41 APO 151.32 V2 35.243
 RC 57.501 GL 6.89 GP 1.43 ZAL 61.92 ZAP 21.67 ETS 184.04 ZAE 147.16 ETE 194.50 ZAC 88.17 ETC 166.25 CLP 21.62

PLANETOCENTRIC CONIC

C3 125.851 VHL 11.218 OLA 17.75 RAL 24.92 RAD 6570.3 VEL 15.722 PTH 2.79 VHP 19.468 DPA -4.21 RAP 355.15 ECC 3.0712
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 28 58 3239.33 -25.53 113.49 286.05 77.32 5 22 58 2639.3 -27.03 105.14
 90.00 21 17 42 4708.72 15.67 201.16 272.74 66.11 22 36 11 4108.7 12.31 194.10
 100.00 6 0 43 2943.48 -27.44 92.20 286.52 77.64 6 49 46 2343.5 -28.86 83.68
 100.00 22 28 39 4479.81 17.45 183.50 271.90 65.34 23 43 18 3879.8 13.98 176.43
 110.00 7 31 46 2658.61 -32.39 71.77 287.73 78.43 8 16 4 2058.6 -33.65 62.77
 110.00 23 14 5 4337.44 22.01 170.37 269.56 63.16 24 26 22 3737.4 18.23 163.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6402 TRA-1.6703 TC3 -.1343 BAU .2315 SGT 1000.0 SGR 459.1 SG3 43.1 ST 423.3 SR 426.4 SS 397.8
 RDE -.8293 RRA .3055 RC3 -.0299 FAU .01436 RRT .0260 RRF -.0282 RTF -.7138 CRT .6942 CRS .7990 CST .9862
 FDE .3996 FRA .7415 FC3 -.0988 BSP 2829 SGB 1100.4 R23 -.0047 R13 -.7139 LSA 676.8 MSA 247.1 SSA 14.5
 BDE 1.0477 BRA 1.6980 BC3 .1376 FSP -98 SGI 1000.1 SG2 458.9 THA .87 ELI 553.0 EL2 235.0 ALF 45.30

LAUNCH DATE DEC 23 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 171.557

RL 147.15 LAL .00 LOL 91.24 VL 21.661 GAL 13.54 AZL 86.30 HCA 64.29 SMA 99.44 ECC .52192 INC 3.6995 V1 30.277
 RP 107.54 LAP 3.33 LOP 155.48 VP 33.668 GAP -31.15 AZP 88.39 TAL 166.89 TAP 231.17 RCA 47.54 APO 151.33 V2 35.238
 RC 55.726 GL 7.30 GP 1.49 ZAL 61.10 ZAP 20.21 ETS 184.59 ZAE 148.36 ETE 195.47 ZAC 89.88 ETC 166.32 CLP 20.16

PLANETOCENTRIC CONIC

C3 114.344 VHL 10.693 OLA 18.44 RAL 25.60 RAD 6570.2 VEL 15.352 PTH 2.75 VHP 18.661 DPA -3.44 RAP 356.75 ECC 2.8818
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 34 3247.08 -25.42 114.03 285.51 77.07 5 18 41 2647.1 -26.94 105.69
 90.00 21 27 31 4662.73 14.38 198.40 272.24 65.34 22 45 14 4062.7 10.94 191.42
 100.00 5 56 59 2949.07 -27.35 92.59 286.00 77.45 6 46 8 2349.1 -28.81 84.09
 100.00 22 37 47 4435.97 16.19 180.86 271.37 64.52 23 51 43 3836.0 12.62 173.88
 110.00 7 29 21 2660.07 -32.37 71.88 287.24 78.36 8 13 41 2060.1 -33.63 62.88
 110.00 23 21 54 4297.74 20.77 167.95 268.94 62.22 24 33 32 3697.7 16.89 160.98

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6404 TRA-1.6683 TC3 -.1382 BAU .2172 SGT 1045.5 SGR 460.7 SG3 46.8 ST 444.7 SR 428.7 SS 415.6
 RDE -.7950 RRA .2847 RC3 -.0328 FAU .01471 RRT .0319 RRF -.0342 RTF -.7304 CRT .6953 CRS .8011 CST .9859
 FDE .4154 FRA .7663 FC3 -.1114 BSP 3011 SGB 1142.5 R23 -.0053 R13 -.7305 LSA 700.7 MSA 251.2 SSA 14.7
 BDE 1.0208 BRA 1.6925 BC3 .1421 FSP -108 SGI 1045.6 SG2 460.4 THA 1.00 ELI 568.8 EL2 240.9 ALF 43.48

LAUNCH DATE DEC 23 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 177.944

RL 147.15 LAL .00 LOL 91.24 VL 22.128 GAL 12.92 AZL 86.36 HCA 67.53 SMA 100.99 ECC .49849 INC 3.6405 V1 30.277
 RP 107.56 LAP 3.36 LOP 158.73 VP 33.964 GAP -29.69 AZP 88.61 TAL 166.27 TAP 233.80 RCA 50.65 APO 151.33 V2 35.232
 RC 54.021 GL 7.72 GP 1.55 ZAL 60.34 ZAP 18.76 ETS 185.22 ZAE 149.69 ETE 196.55 ZAC 91.59 ETC 166.37 CLP 18.70

PLANETOCENTRIC CONIC

C3 103.932 VHL 10.195 OLA 19.11 RAL 26.22 RAD 6570.0 VEL 15.009 PTH 2.70 VHP 17.882 DPA -2.65 RAP 358.36 ECC 2.7105
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 19 50 3254.30 -25.30 114.53 284.86 76.85 5 14 4 2654.3 -26.87 106.20
 90.00 21 37 11 4615.96 13.04 195.62 271.69 64.64 22 54 7 4016.0 9.52 188.72
 100.00 5 52 57 2954.02 -27.28 92.94 285.36 77.28 6 42 11 2354.0 -28.76 84.45
 100.00 22 46 45 4391.48 14.86 178.21 270.78 63.76 23 59 56 3791.5 11.22 171.32
 110.00 7 26 42 2660.72 -32.36 71.93 286.63 78.34 8 11 3 2060.7 -33.63 62.93
 110.00 23 29 29 4257.55 19.48 165.55 268.28 61.34 24 40 27 3657.5 15.50 158.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6411 TRA-1.6651 TC3 -.1412 BAU .2024 SGT 1092.5 SGR 461.5 SG3 50.9 ST 467.1 SR 430.3 SS 434.1
 RDE -.7611 RRA .2643 RC3 -.0358 FAU .01510 RRT .0385 RRF -.0409 RTF -.7464 CRT .6971 CRS .8035 CST .9858
 FDE .4319 FRA .7916 FC3 -.1258 BSP 3203 SGB 1186.0 R23 -.0059 R13 -.7465 LSA 725.7 MSA 254.7 SSA 14.8
 BDE .9952 BRA 1.6859 BC3 .1456 FSP -119 SGI 1092.7 SG2 461.1 THA 1.13 ELI 585.5 EL2 246.1 ALF 41.64

LAUNCH DATE DEC 23 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 184.390

RL 147.15 LAL .00 LOL 91.24 VL 22.564 GAL 12.32 AZL 86.42 HCA 70.77 SMA 102.51 ECC .47597 INC 3.5842 V1 30.277
 RP 107.58 LAP 3.38 LOP 161.97 VP 34.244 GAP -28.29 AZP 88.82 TAL 165.68 TAP 236.46 RCA 53.72 APO 151.30 V2 35.226
 RC 52.393 GL 8.15 GP 1.62 ZAL 59.65 ZAP 17.32 ETS 185.95 ZAE 151.17 ETE 197.77 ZAC 93.31 ETC 166.40 CLP 17.25

PLANETOCENTRIC CONIC

C3 94.507 VHL 9.721 OLA 19.77 RAL 26.77 RAD 6569.8 VEL 14.692 PTH 2.66 VHP 17.129 DPA -1.86 RAP 359.97 ECC 2.5554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 45 3261.08 -25.20 114.99 284.08 76.64 5 9 6 2661.1 -26.79 106.69
 90.00 21 46 42 4568.43 11.64 192.84 271.09 64.00 23 2 50 3968.4 8.05 186.00
 100.00 5 48 37 2958.38 -27.21 93.25 284.60 77.13 6 37 55 2358.4 -28.71 84.77
 100.00 22 55 31 4346.36 13.49 175.57 270.15 63.07 24 7 57 3746.4 9.77 168.75
 110.00 7 23 48 2660.61 -32.36 71.92 285.89 78.34 8 8 8 2060.6 -33.63 62.92
 110.00 23 36 50 4216.89 18.13 163.17 267.56 60.51 24 47 7 3616.9 14.07 156.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6422 TRA-1.6603 TC3 -.1431 BAU .1874 SGT 1141.1 SGR 461.6 SG3 55.3 ST 490.6 SR 431.4 SS 453.3
 RDE -.7277 RRA .2444 RC3 -.0389 FAU .01554 RRT .0460 RRF -.0485 RTF -.7616 CRT .6996 CRS .8063 CST .9856
 FDE .4495 FRA .8176 FC3 -.1423 BSP 3398 SGB 1230.9 R23 -.0066 R13 -.7617 LSA 752.1 MSA 257.5 SSA 15.0
 BDE .9706 BRA 1.6782 BC3 .1483 FSP -132 SGI 1141.3 SG2 461.0 THA 1.28 ELI 603.2 EL2 250.7 ALF 39.78

LAUNCH DATE DEC 23 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 190.887

RL 147.15 LAL .00 LOL 91.24 VL 22.972 GAL 11.74 AZL 86.47 MCA 74.01 SMA 104.00 ECC .45436 INC 3.5301 V1 30.277
 RP 107.60 LAP 3.39 LOP 165.22 VP 34.506 GAP -26.96 AZP 89.03 TAL 165.13 TAP 239.15 RCA 56.74 APO 151.25 V2 35.219
 RC 50.852 GL 8.59 GP 1.69 ZAL 59.03 ZAP 15.89 ETS 186.82 ZAE 152.80 ETE 199.16 ZAC 95.04 ETC 166.42 CLP 15.80

PLANETOCENTRIC CONIC

C3 85.975 VML 9.272 OLA 20.42 RAL 27.26 RAD 6569.7 VEL 14.399 PTH 2.62 VHP 16.402 DPA -1.05 RAP 1.57 ECC 2.4149
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 9 18 3267.52 -25.10 115.44 283.18 76.44 5 3.45 2667.5 -26.72 107.14
 90.00 21 56 5 4520.14 10.18 190.04 270.45 63.43 23 11'25 3920.1 6.53 183.26
 100.00 5 43 58 2962.25 -27.16 93.52 283.72 77.00 6 33 20 2362.2 -28.67 85.05
 100.00 23 4 6 4300.65 12.06 172.92 269.46 62.44 24 15 47 3700.6 8.28 166.18
 110.00 7 20 38 2659.82 -32.37 71.86 285.04 78.37 8 4 58 2059.8 -33.64 62.86
 110.00 23 43 55 4175.84 16.74 160.80 266.80 59.75 24 53 31 3575.8 12.60 154.14

DIFFERENTIAL CORRECTIONS

TDE -.6464 TRA-1.6567 TC3 -.1448 BAU .1733
 RDE -.6949 RRA .2249 RC3 -.0421 FAU .01601
 FDE .4685 FRA .8446 FC3 -.1612 BSP 3540
 BOE .9491 BRA 1.6719 BC3 .1508 FSP -145

MID-COURSE EXECUTION ACCURACY

SGT 1193.7 SGR 461.0 SG3 60.1
 RRT .0555 RRF -.0573 RTF -.7757
 SGB 1279.6 R23 -.0068 R13 -.7758
 SG1 1194.0 SG2 460.1 THA 1.44

ORBIT DETERMINATION ACCURACY

ST 516.7 SR 431.7 SS 473.8
 CRT .7036 CRS .8095 CST .9857
 LSA 781.3 MSA 259.5 SSA 15.2
 EL1 623.5 EL2 254.2 ALF 37.80

LAUNCH DATE DEC 23 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

DISTANCE 197.432

RL 147.15 LAL .00 LOL 91.24 VL 23.352 GAL 11.18 AZL 86.52 MCA 77.25 SMA 105.45 ECC .43367 INC 3.4778 V1 30.277
 RP 107.62 LAP 3.39 LOP 168.47 VP 34.752 GAP -25.68 AZP 89.23 TAL 164.62 TAP 241.87 RCA 59.72 APO 151.18 V2 35.211
 RC 49.405 GL 9.04 GP 1.78 ZAL 58.47 ZAP 14.47 ETS 187.86 ZAE 154.58 ETE 200.78 ZAC 96.76 ETC 166.41 CLP 14.37

PLANETOCENTRIC CONIC

C3 78.248 VML 8.846 OLA 21.06 RAL 27.69 RAD 6569.5 VEL 14.128 PTH 2.57 VHP 15.700 DPA -.23 RAP 3.18 ECC 2.2878
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 3 27 3273.73 -25.00 115.87 282.17 76.24 4 58 1 2673.7 -26.64 107.58
 90.00 22 5 21 4471.11 8.67 187.22 269.75 62.94 23 19 52 3871.1 4.98 180.49
 100.00 5 38 59 2965.69 -27.10 93.76 282.73 76.88 6 28 25 2365.7 -28.64 85.30
 100.00 23 12 30 4254.42 10.59 170.28 268.73 61.88 24 23 25 3654.4 6.75 163.59
 110.00 7 17 13 2658.39 -32.39 71.76 284.07 78.43 8 1 31 2058.4 -33.65 62.75
 110.00 23 50 46 4134.45 15.31 158.45 265.99 59.06 24 59 41 3534.5 11.09 151.88

DIFFERENTIAL CORRECTIONS

TDE -.6488 TRA-1.6495 TC3 -.1441 BAU .1580
 RDE -.6628 RRA .2059 RC3 -.0454 FAU .01655
 FDE .4885 FRA .8724 FC3 -.1831 BSP 3740
 BOE .9275 BRA 1.6623 BC3 .1511 FSP -159

MID-COURSE EXECUTION ACCURACY

SGT 1245.9 SGR 459.6 SG3 65.3
 RRT .0651 RRF -.0670 RTF -.7894
 SGB 1328.0 R23 -.0076 R13 -.7895
 SG1 1246.3 SG2 458.4 THA 1.59

ORBIT DETERMINATION ACCURACY

ST 542.8 SR 431.5 SS 495.1
 CRT .7076 CRS .8130 CST .9858
 LSA 811.0 MSA 260.8 SSA 15.3
 EL1 644.0 EL2 257.0 ALF 35.94

LAUNCH DATE DEC 23 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

DISTANCE 204.018

RL 147.15 LAL .00 LOL 91.24 VL 23.706 GAL 10.64 AZL 86.57 MCA 80.49 SMA 106.87 ECC .41391 INC 3.4267 V1 30.277
 RP 107.65 LAP 3.38 LOP 171.71 VP 34.983 GAP -24.45 AZP 89.43 TAL 164.14 TAP 244.63 RCA 62.63 APO 151.10 V2 35.202
 RC 48.064 GL 9.50 GP 1.87 ZAL 57.98 ZAP 13.06 ETS 189.13 ZAE 156.50 ETE 202.69 ZAC 98.48 ETC 166.38 CLP 12.93

PLANETOCENTRIC CONIC

C3 71.251 VML 8.441 OLA 21.68 RAL 28.06 RAD 6569.4 VEL 13.878 PTH 2.53 VHP 15.021 DPA .59 RAP 4.78 ECC 2.1726
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 13 3279.83 -24.90 116.28 281.05 76.06 4 51 53 2679.8 -26.57 108.02
 90.00 22 14 30 4421.38 7.12 184.39 269.00 62.52 23 28 12 3821.4 3.39 177.71
 100.00 5 33 41 2968.81 -27.05 93.98 281.63 76.78 6 23 10 2368.8 -28.60 85.52
 100.00 23 20 44 4207.64 9.08 167.63 267.95 61.40 24 30 51 3607.6 5.19 161.00
 110.00 7 13 32 2656.39 -32.42 71.61 282.99 78.52 7 57 49 2056.4 -33.66 62.59
 110.00 0 1 18 4092.81 13.84 156.12 265.14 58.43 1 9 30 3492.8 9.56 149.63

DIFFERENTIAL CORRECTIONS

TDE -.6518 TRA-1.6405 TC3 -.1414 BAU .1425
 RDE -.6315 RRA .1875 RC3 -.0487 FAU .01714
 FDE .5100 FRA .9011 FC3 -.2083 BSP 3947
 BOE .9075 BRA 1.6511 BC3 .1496 FSP -176

MID-COURSE EXECUTION ACCURACY

SGT 1299.5 SGR 457.4 SG3 71.1
 RRT .0760 RRF -.0780 RTF -.8025
 SGB 1377.6 R23 -.0084 R13 -.8027
 SG1 1300.0 SG2 455.9 THA 1.75

ORBIT DETERMINATION ACCURACY

ST 570.1 SR 430.6 SS 517.4
 CRT .7124 CRS .8169 CST .9858
 LSA 842.4 MSA 261.3 SSA 15.4
 EL1 666.0 EL2 258.7 ALF 34.12

LAUNCH DATE DEC 23 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

DISTANCE 210.641

RL 147.15 LAL .00 LOL 91.24 VL 24.037 GAL 10.12 AZL 86.62 MCA 83.73 SMA 108.24 ECC .39506 INC 3.3767 V1 30.277
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.199 GAP -23.27 AZP 89.63 TAL 163.70 TAP 247.43 RCA 65.48 APO 151.01 V2 35.194
 RC 46.839 GL 9.96 GP 1.97 ZAL 57.56 ZAP 11.66 ETS 190.74 ZAE 158.56 ETE 205.01 ZAC 100.19 ETC 166.33 CLP 11.49

PLANETOCENTRIC CONIC

C3 64.917 VML 8.057 OLA 22.28 RAL 28.36 RAD 6569.2 VEL 13.648 PTH 2.49 VHP 14.366 DPA 1.43 RAP 6.38 ECC 2.0684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 34 3285.93 -24.80 116.70 279.83 75.87 4 45 20 2685.9 -26.50 108.45
 90.00 22 23 33 4370.99 5.53 181.55 268.22 62.18 23 36 24 3771.0 1.76 174.89
 100.00 5 28 2 2971.67 -27.01 94.18 280.43 76.68 6 17 34 2371.7 -28.57 85.73
 100.00 23 28 47 4160.48 7.53 164.98 267.13 60.99 24 38 7 3560.5 3.61 158.40
 110.00 7 9 36 2653.89 -32.45 71.42 281.80 78.63 7 53 50 2053.9 -33.68 62.40
 110.00 0 7 38 4051.02 12.33 153.81 264.25 57.86 1 15 9 3451.0 8.00 147.39

DIFFERENTIAL CORRECTIONS

TDE -.6552 TRA-1.6300 TC3 -.1367 BAU .1269
 RDE -.6009 RRA .1695 RC3 -.0519 FAU .01781
 FDE .5331 FRA .9310 FC3 -.2375 BSP 4155
 BOE .8891 BRA 1.6388 BC3 .1462 FSP -194

MID-COURSE EXECUTION ACCURACY

SGT 1354.6 SGR 454.5 SG3 77.4
 RRT .0883 RRF -.0903 RTF -.8149
 SGB 1428.8 R23 -.0094 R13 -.8150
 SG1 1355.2 SG2 452.5 THA 1.91

ORBIT DETERMINATION ACCURACY

ST 598.6 SR 429.1 SS 540.9
 CRT .7180 CRS .8212 CST .9860
 LSA 875.6 MSA 261.0 SSA 15.6
 EL1 689.4 EL2 259.4 ALF 32.36

LAUNCH DATE DEC 23 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

DISTANCE 217.295

RL 147.15 LAL .00 LOL 91.24 VL 24.345 GAL 9.62 AZL 86.67 MCA 86.96 SMA 109.58 ECC .37712 INC 3.3273 V1 30.277
 RP 107.71 LAP 3.32 LOP 178.19 VP 35.401 GAP -22.13 AZP 89.82 TAL 163.31 TAP 250.27 RCA 68.25 APO 150.90 V2 35.184
 RC 45.742 GL 10.43 GP 2.08 ZAL 57.20 ZAP 10.26 ETS 192.81 ZAE 160.74 ETE 207.87 ZAC 101.90 ETC 166.26 CLP 10.05

PLANETOCENTRIC CONIC

C3 59.182 VHL 7.693 DLA 22.87 RAL 28.60 RAD 6569.1 VEL 13.437 PTH 2.46 VHP 13.732 DPA 2.27 RAP 7.97 ECC 1.9740
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 29 3292.16 -24.69 117.13 278.51 75.68 4 38 21 2692.2 -26.42 108.89
 90.00 22 32 32 4319.97 3.90 178.68 267.39 61.93 23 44 32 3720.0 .12 172.04
 100.00 5 22 3 2974.37 -26.97 94.37 279.13 76.59 6 11 37 2374.4 -28.54 85.93
 100.00 23 36 39 4113.00 5.96 162.34 266.26 60.65 24 45 12 3513.0 2.00 155.79
 110.00 7 5 26 2650.93 -32.49 71.20 280.52 78.75 7 49 37 2050.9 -33.70 62.17
 110.00 0 13 41 4009.20 10.81 151.53 263.31 57.37 1 20 31 3409.2 6.43 145.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6593 TRA-1.6179 TC3 -.1296 BAU .1114 SGT 1411.1 SGR 450.9 SG3 84.3 ST 628.6 SR 427.1 SS 565.7
 RDE -.5713 RRA .1521 RC3 -.0550 FAU .01855 RRT .1021 RRF -.1042 RTF -.8266 CRT .7244 CRS .8260 CST .9862
 FDE .5581 FRA .9623 FC3 -.2713 BSP 4370 SGB 1481.4 R23 -.0104 R13 -.8268 LSA 910.9 MSA 259.9 SSA 15.7
 BOE .8724 BRA 1.6251 BC3 .1408 FSP -214 SGI 1411.9 SG2 448.3 THA 2.08 EL1 714.4 EL2 259.0 ALF 30.67

LAUNCH DATE DEC 23 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 223.977

RL 147.15 LAL .00 LOL 91.24 VL 24.633 GAL 9.14 AZL 86.72 MCA 90.19 SMA 110.86 ECC .36007 INC 3.2783 V1 30.277
 RP 107.74 LAP 3.28 LOP 181.43 VP 35.589 GAP -21.05 AZP 90.01 TAL 162.95 TAP 253.15 RCA 70.95 APO 150.78 V2 35.174
 RC 44.782 GL 10.91 GP 2.20 ZAL 56.92 ZAP 8.88 ETS 195.58 ZAE 163.01 ETE 211.53 ZAC 103.59 ETC 166.15 CLP 8.61

PLANETOCENTRIC CONIC

C3 53.993 VHL 7.348 DLA 23.44 RAL 28.77 RAD 6569.0 VEL 13.242 PTH 2.42 VHP 13.120 DPA 3.12 RAP 9.55 ECC 1.8886
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 35 58 3298.64 -24.58 117.57 277.09 75.48 4 30 56 2698.6 -26.34 109.34
 90.00 22 41 25 4268.41 2.25 175.80 266.52 61.76 23 52 34 3668.4 -1.55 169.17
 100.00 5 15 44 2976.97 -26.93 94.56 277.74 76.50 6 5 21 2377.0 -28.52 86.11
 100.00 23 44 20 4065.31 4.36 159.70 265.35 60.40 24 52 6 3465.3 .39 153.17
 110.00 7 1 1 2647.57 -32.54 70.95 279.15 78.89 7 45 9 2047.6 -33.73 61.91
 110.00 0 19 28 3967.47 9.27 149.28 262.34 56.95 1 25 36 3367.5 4.85 142.98

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6638 TRA-1.6041 TC3 -.1197 BAU .0960 SGT 1468.8 SGR 446.6 SG3 91.9 ST 659.7 SR 424.5 SS 592.0
 RDE -.5426 RRA .1353 RC3 -.0579 FAU .01937 RRT .1177 RRF -.1200 RTF -.8377 CRT .7317 CRS .8311 CST .9864
 FDE .5851 FRA .9951 FC3 -.3105 BSP 4581 SGB 1535.2 R23 -.0116 R13 -.8379 LSA 948.2 MSA 258.0 SSA 15.8
 BOE .8573 BRA 1.6097 BC3 .1330 FSP -236 SGI 1469.8 SG2 443.2 THA 2.25 EL1 740.9 EL2 257.6 ALF 29.06

LAUNCH DATE DEC 23 1968

FLIGHT TIME 98.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 230.681

RL 147.15 LAL .00 LOL 91.24 VL 24.900 GAL 8.68 AZL 86.77 MCA 93.42 SMA 112.11 ECC .34390 INC 3.2292 V1 30.277
 RP 107.77 LAP 3.22 LOP 184.67 VP 35.764 GAP -20.00 AZP 90.19 TAL 162.64 TAP 256.07 RCA 73.55 APO 150.66 V2 35.164
 RC 43.971 GL 11.39 GP 2.33 ZAL 56.69 ZAP 7.52 ETS 199.43 ZAE 165.33 ETE 216.39 ZAC 105.27 ETC 166.03 CLP 7.15

PLANETOCENTRIC CONIC

C3 49.297 VHL 7.021 DLA 23.99 RAL 28.88 RAD 6568.8 VEL 13.064 PTH 2.38 VHP 12.529 DPA 3.98 RAP 11.11 ECC 1.8113
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 27 59 3305.49 -24.46 118.04 275.59 75.28 4 23 5 2705.5 -26.25 109.83
 90.00 22 50 15 4216.35 .57 172.89 265.61 61.69 24 0 31 3616.4 -3.22 166.26
 100.00 5 9 5 2979.53 -26.89 94.74 276.27 76.42 5 58 45 2379.5 -28.49 86.30
 100.00 23 51 50 4017.54 2.75 157.07 264.40 60.22 24 58 48 3417.5 -1.23 150.55
 110.00 6 56 23 2643.84 -32.59 70.67 277.69 79.05 7 40 27 2043.8 -33.75 61.63
 110.00 0 24 57 3926.00 7.72 147.07 261.33 56.60 1 30 23 3326.0 3.27 140.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6690 TRA-1.5888 TC3 -.1067 BAU .0808 SGT 1527.9 SGR 441.7 SG3 100.3 ST 692.3 SR 421.5 SS 619.9
 RDE -.5150 RRA .1189 RC3 -.0604 FAU .02028 RRT .1354 RRF -.1379 RTF -.8481 CRT .7398 CRS .8368 CST .9868
 FDE .6146 FRA 1.0296 FC3 -.3561 BSP 4799 SGB 1590.4 R23 -.0129 R13 -.8483 LSA 987.8 MSA 255.3 SSA 15.9
 BOE .8443 BRA 1.5933 BC3 .1226 FSP -261 SGI 1529.1 SG2 437.3 THA 2.44 EL1 769.3 EL2 255.2 ALF 27.53

LAUNCH DATE DEC 23 1968

FLIGHT TIME 100.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 237.404

RL 147.15 LAL .00 LOL 91.24 VL 25.149 GAL 8.24 AZL 86.82 MCA 96.65 SMA 113.30 ECC .32859 INC 3.1799 V1 30.277
 RP 107.80 LAP 3.16 LOP 187.90 VP 35.927 GAP -18.99 AZP 90.37 TAL 162.38 TAP 259.03 RCA 76.07 APO 150.53 V2 35.153
 RC 43.319 GL 11.87 GP 2.48 ZAL 56.53 ZAP 6.20 ETS 205.07 ZAE 167.64 ETE 223.10 ZAC 106.92 ETC 165.87 CLP 5.69

PLANETOCENTRIC CONIC

C3 45.050 VHL 6.712 DLA 24.52 RAL 28.92 RAD 6568.7 VEL 12.900 PTH 2.35 VHP 11.959 DPA 4.84 RAP 12.65 ECC 1.7414
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 19 34 3312.81 -24.34 118.54 274.01 75.06 4 14 47 2712.8 -26.15 110.34
 90.00 22 59 1 4163.90 -1.13 169.97 264.66 61.70 24 8 25 3563.9 -4.90 163.32
 100.00 5 2 9 2982.08 -26.84 94.91 274.72 76.33 5 51 51 2382.1 -28.46 86.48
 100.00 0 3 3 3969.86 1.13 154.45 263.40 60.13 1 9 13 3369.9 -2.85 147.93
 110.00 6 51 34 2639.76 -32.64 70.36 276.16 79.23 7 35 33 2039.8 -33.78 61.31
 110.00 0 30 8 3884.94 6.18 144.89 260.28 56.31 1 34 53 3284.9 1.71 138.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6742 TRA-1.5717 TC3 -.0896 BAU .0658 SGT 1587.5 SGR 436.2 SG3 109.5 ST 725.9 SR 418.0 SS 649.4
 RDE -.4885 RRA .1031 RC3 -.0624 FAU .02130 RRT .1552 RRF -.1581 RTF -.8580 CRT .7486 CRS .8428 CST .9872
 FDE .6466 FRA 1.0662 FC3 -.4092 BSP 5022 SGB 1646.3 R23 -.0145 R13 -.8582 LSA 1029.4 MSA 251.8 SSA 16.0
 BOE .8325 BRA 1.5750 BC3 .1092 FSP -288 SGI 1589.0 SG2 430.4 THA 2.64 EL1 798.9 EL2 251.8 ALF 26.11

LAUNCH DATE DEC 23 1968

FLIGHT TIME 102.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 244.141

RL 147.15 LAL .00 LOL 91.24 VL 25.380 GAL 7.82 AZL 86.87 MCA 99.88 SMA 114.44 ECC .31412 INC 3.1299 VI 30.277
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.079 GAP -18.02 AZP 90.54 TAL 162.16 TAP 262.04 RCA 78.49 APO 150.39 V2 35.141
 RC 42.834 GL 12.35 GP 2.65 ZAL 56.44 ZAP 4.97 ETS 213.83 ZAE 169.81 ETE 232.79 ZAC 108.56 ETC 165.68 CLP 4.20

PLANETOCENTRIC CONIC

C3 41.211 VHL 6.420 OLA 25.02 RAL 28.90 RAD 6568.6 VEL 12.751 PTH 2.32 VHP 11.408 OPA 5.72 RAP 14.18 ECC 1.6782
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 10 42 3320.68 -24.20 119.07 272.35 74.83 4 6 2 2720.7 -26.05 110.89
 90.00 23 7 44 4111.14 -2.83 167.02 263.68 61.81 24 16 15 3511.1 -6.57 160.35
 100.00 4 54 56 2984.61 -26.80 95.09 273.10 76.25 5 44 41 2384.6 -28.43 86.67
 100.00 0 10 6 3922.44 -.47 151.85 262.37 60.11 1 15 29 3322.4 -4.45 145.32
 110.00 6 46 35 2635.32 -32.70 70.03 274.56 79.42 7 30 30 2035.3 -33.81 60.97
 110.00 0 34 57 3844.50 4.64 142.76 259.19 56.10 1 39 2 3244.5 .16 136.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6803 TRA-1.5531 TC3 -.0691 BAU .0518 SGT 1648.2 SGR 430.1 SG3 119.7 ST 761.1 SR 414.2 SS 680.8
 RDE -.4631 RRA .0876 RC3 -.0638 FAU .02242 RRT .1780 RRF -.1811 RTF -.8672 CRT .7585 CRS .8493 CST .9876
 FDE .6816 FRA 1.1051 FC3 -.4710 BSP 5238 SGB 1703.4 R23 -.0161 R13 -.8674 LSA 1073.7 MSA 247.5 SSA 16.0
 BDE .8230 BRA 1.5555 BC3 .0941 FSP -318 SG1 1650.1 SG2 422.8 THA 2.85 EL1 830.4 EL2 247.4 ALF 24.77

LAUNCH DATE DEC 23 1968

FLIGHT TIME 104.00

ARRIVAL DATE APR 6 1969

HELIOCENTRIC CONIC

DISTANCE 250.868

RL 147.15 LAL .00 LOL 91.24 VL 25.595 GAL 7.41 AZL 86.92 MCA 103.11 SMA 115.53 ECC .30047 INC 3.0790 VI 30.277
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.219 GAP -17.08 AZP 90.70 TAL 161.98 TAP 265.09 RCA 80.82 APO 150.25 V2 35.129
 RC 42.524 GL 12.82 GP 2.84 ZAL 56.41 ZAP 3.92 ETS 228.12 ZAE 171.63 ETE 247.12 ZAC 110.16 ETC 165.45 CLP 2.70

PLANETOCENTRIC CONIC

C3 37.740 VHL 6.143 OLA 25.50 RAL 28.82 RAD 6568.5 VEL 12.614 PTH 2.29 VHP 10.876 OPA 6.59 RAP 15.68 ECC 1.6211
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 1 24 3329.17 -24.05 119.65 270.63 74.58 3 56 53 2729.2 -25.93 111.49
 90.00 23 16 23 4058.21 -4.52 164.06 262.66 62.02 24 24 1 3458.2 -8.23 157.34
 100.00 4 47 30 2987.08 -26.76 95.26 271.42 76.16 5 37 17 2387.1 -28.40 86.84
 100.00 0 16 53 3873.53 -2.06 149.28 261.30 60.17 1 21 29 3275.5 -6.02 142.72
 110.00 6 41 29 2630.49 -32.75 69.66 272.89 79.63 7 25 19 2030.5 -33.84 60.59
 110.00 0 39 24 3804.89 3.14 140.69 258.06 55.94 1 42 49 3204.9 -1.35 134.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6866 TRA-1.5330 TC3 -.0440 BAU .0393 SGT 1709.5 SGR 423.7 SG3 131.0 ST 797.4 SR 410.1 SS 714.2
 RDE -.4390 RRA .0726 RC3 -.0644 FAU .02368 RRT .2038 RRF -.2073 RTF -.8759 CRT .7691 CRS .8563 CST .9881
 FDE .7200 FRA 1.1467 FC3 -.5432 BSP 5459 SGB 1761.2 R23 -.0181 R13 -.8762 LSA 1120.3 MSA 242.6 SSA 16.1
 BDE .8149 BRA 1.5347 BC3 .0780 FSP -352 SG1 1711.8 SG2 414.3 THA 3.07 EL1 863.4 EL2 242.1 ALF 23.54

LAUNCH DATE DEC 23 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 8 1969

HELIOCENTRIC CONIC

DISTANCE 257.643

RL 147.15 LAL .00 LOL 91.24 VL 25.795 GAL 7.03 AZL 86.97 MCA 106.33 SMA 116.57 ECC .28762 INC 3.0268 VI 30.277
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.348 GAP -16.18 AZP 90.85 TAL 161.86 TAP 268.18 RCA 83.04 APO 150.10 V2 35.117
 RC 42.392 GL 13.29 GP 3.05 ZAL 56.44 ZAP 3.27 ETS 250.73 ZAE 172.76 ETE 267.39 ZAC 111.72 ETC 165.19 CLP 1.17

PLANETOCENTRIC CONIC

C3 34.604 VHL 5.883 OLA 25.95 RAL 28.68 RAD 6568.4 VEL 12.489 PTH 2.26 VHP 10.362 OPA 7.48 RAP 17.15 ECC 1.5695
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 51 42 3338.28 -23.88 120.26 268.85 74.31 3 47 20 2738.3 -25.80 112.12
 90.00 23 24 58 4005.27 -6.21 161.08 261.61 62.32 24 31 43 3405.3 -9.87 154.31
 100.00 4 39 55 2989.39 -26.73 95.42 269.68 76.09 5 29 44 2389.4 -28.37 87.01
 100.00 0 23 22 3829.39 -3.62 146.74 260.20 60.31 1 27 11 3229.4 -7.55 140.15
 110.00 6 36 19 2625.19 -32.82 69.26 271.18 79.85 7 20 4 2025.2 -33.87 60.18
 110.00 0 43 27 3766.35 1.67 138.67 256.90 55.85 1 46 13 3166.3 -2.83 132.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6936 TRA-1.5119 TC3 -.0143 BAU .0303 SGT 1771.6 SGR 417.0 SG3 143.6 ST 835.3 SR 405.8 SS 749.8
 RDE -.4162 RRA .0580 RC3 -.0638 FAU .02508 RRT .2332 RRF -.2373 RTF -.8840 CRT .7806 CRS .8638 CST .9887
 FDE .7621 FRA 1.1913 FC3 -.6274 BSP 5671 SGB 1820.1 R23 -.0203 R13 -.8844 LSA 1169.7 MSA 237.0 SSA 16.2
 BDE .8089 BRA 1.5130 BC3 .0654 FSP -389 SG1 1774.5 SG2 404.9 THA 3.31 EL1 898.2 EL2 235.9 ALF 22.40

LAUNCH DATE DEC 23 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 10 1969

HELIOCENTRIC CONIC

DISTANCE 264.401

RL 147.15 LAL .00 LOL 91.24 VL 25.980 GAL 6.66 AZL 87.03 MCA 109.55 SMA 117.56 ECC .27554 INC 2.9728 VI 30.277
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.468 GAP -15.31 AZP 91.00 TAL 161.77 TAP 271.32 RCA 85.17 APO 149.95 V2 35.105
 RC 42.442 GL 13.73 GP 3.29 ZAL 56.53 ZAP 3.31 ETS 278.49 ZAE 172.85 ETE 291.06 ZAC 113.25 ETC 164.89 CLP -.38

PLANETOCENTRIC CONIC

C3 31.772 VHL 5.637 OLA 26.36 RAL 28.48 RAD 6568.3 VEL 12.375 PTH 2.23 VHP 9.867 OPA 8.38 RAP 18.59 ECC 1.5229
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 41 40 3347.93 -23.70 120.91 267.03 74.03 3 37 28 2747.9 -25.66 112.80
 90.00 23 33 26 3952.56 -7.86 158.09 260.53 62.71 24 39 19 3352.6 -11.46 151.26
 100.00 4 32 16 2991.34 -26.69 95.56 267.91 76.02 5 22 8 2391.3 -28.35 87.15
 100.00 0 29 26 3784.39 -5.14 144.26 259.05 60.51 1 32 31 3184.4 -9.03 137.63
 110.00 6 31 10 2619.33 -32.89 68.82 269.42 80.11 7 14 49 2019.3 -33.90 59.73
 110.00 0 47 2 3729.16 .24 136.74 255.71 55.82 1 49 11 3129.2 -4.24 130.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6992 TRA-1.4879 TC3 .0213 BAU .0278 SGT 1831.6 SGR 410.3 SG3 157.5 ST 872.7 SR 401.6 SS 787.6
 RDE -.3948 RRA .0436 RC3 -.0619 FAU .02664 RRT .2663 RRF -.2714 RTF -.8918 CRT .7924 CRS .8716 CST .9892
 FDE .8081 FRA 1.2396 FC3 -.7258 BSP 5915 SGB 1877.0 R23 -.0233 R13 -.8922 LSA 1220.5 MSA 230.9 SSA 16.2
 BDE .8030 BRA 1.4885 BC3 .0655 FSP -430 SG1 1835.1 SG2 394.7 THA 3.58 EL1 932.9 EL2 229.1 ALF 21.39

LAUNCH DATE DEC 23 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 12 1969

HELIOCENTRIC CONIC

DISTANCE 271.159

RL 147.15 LAL .00 LOL 91.24 VL 26.151 GAL 6.31 AZL 87.08 MCA 112.77 SMA 118.50 ECC .26421 INC 2.9167 V1 30.277
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.578 GAP -14.47 AZP 91.13 TAL 161.73 TAP 274.50 RCA 87.19 APO 149.81 V2 35.092
 RC 42.671 GL 14.16 GP 3.55 ZAL 56.67 ZAP 4.06 ETS 300.97 ZAE 171.89 ETE 311.85 ZAC 114.72 ETC 164.54 CLP -1.97

PLANETOCENTRIC CONIC

C3 29.214 VHL 5.405 CLA 26.74 RAL 28.23 RAD 6568.2 VEL 12.271 PTH 2.21 VHP 9.390 DPA 9.28 RAP 19.98 ECC 1.4808
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 31 23 3357.94 -23.51 121.59 265.17 73.75 3 27 21 2757.9 -25.52 113.49
 90.00 23 41 44 3900.43 -9.48 155.11 259.41 63.19 24 46 44 3300.4 -13.00 148.21
 100.00 4 24 42 2992.63 -26.67 95.65 266.11 75.98 5 14 35 2392.6 -28.34 87.24
 100.00 0 35 1 3740.97 -6.59 141.85 257.86 60.78 1 37 22 3141.0 -10.43 135.17
 110.00 6 26 7 2612.74 -32.96 68.32 267.63 80.39 7 9 40 2012.7 -33.94 59.22
 110.00 0 50 6 3693.63 -1.12 134.88 254.47 55.83 1 51 40 3093.6 -5.59 128.66

DIFFERENTIAL CORRECTIONS

TOE -.7053 TRA-1.4635 TC3 .0620 BAU .0332
 RDE -.3748 RRA .0294 RC3 -.0583 FAU .02838
 FDE .8584 FRA 1.2917 FC3 -.8412 BSP 6119
 BOE .7987 BRA 1.4638 BC3 .0851 FSP -477

MID-COURSE EXECUTION ACCURACY

SGT 1892.4 SGR 403.7 SG3 172.9
 RRT .3040 RRF -.3103 RTF -.8990
 SGB 1935.0 R23 -.0266 R13 -.8994
 SG1 1896.5 SG2 383.8 THA 3.87

ORBIT DETERMINATION ACCURACY

ST 911.4 SR 397.4 SS 827.5
 CRT .8050 CRS .8798 CST .9898
 LSA 1273.9 MSA 224.4 SSA 16.2
 EL1 969.2 EL2 221.7 ALF 20.46

LAUNCH DATE DEC 23 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 277.915

RL 147.15 LAL .00 LOL 91.24 VL 26.310 GAL 5.98 AZL 87.14 MCA 115.98 SMA 119.39 ECC .25360 INC 2.8578 V1 30.277
 RP 108.03 LAP 2.57 LOP 207.25 VP 36.660 GAP -13.66 AZP 91.25 TAL 161.74 TAP 277.72 RCA 89.11 APO 149.66 V2 35.080
 RC 43.078 GL 14.57 GP 3.86 ZAL 56.86 ZAP 5.27 ETS 315.08 ZAE 170.26 ETE 326.81 ZAC 116.14 ETC 164.15 CLP -3.59

PLANETOCENTRIC CONIC

C3 26.905 VHL 5.187 CLA 27.07 RAL 27.94 RAD 6568.1 VEL 12.177 PTH 2.19 VHP 8.930 DPA 10.20 RAP 21.33 ECC 1.4428
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 21 3 3367.88 -23.32 122.25 263.28 73.47 3 17 11 2767.9 -25.36 114.18
 90.00 23 49 43 3849.42 -11.03 152.17 258.26 63.75 24 53 52 3249.4 -14.47 145.18
 100.00 4 17 23 2992.84 -26.67 95.66 264.29 75.97 5 7 16 2392.8 -28.33 87.26
 100.00 0 39 59 3699.70 -7.95 139.55 256.63 61.09 1 41 39 3099.7 -11.75 132.82
 110.00 6 21 16 2605.21 -33.05 67.75 265.81 80.72 7 4 41 2005.2 -33.98 58.63
 110.00 0 52 36 3660.10 -2.40 133.13 253.21 55.89 1 53 36 3060.1 -6.86 126.89

DIFFERENTIAL CORRECTIONS

TOE -.7112 TRA-1.4379 TC3 .1085 BAU .0434
 RDE -.3563 RRA .0152 RC3 -.0525 FAU .03033
 FDE .9138 FRA 1.3488 FC3 -.9760 BSP 6323
 BOE .7955 BRA 1.4380 BC3 .1206 FSP -529

MID-COURSE EXECUTION ACCURACY

SGT 1952.3 SGR 397.8 SG3 190.2
 RRT .3469 RRF -.3547 RTF -.9057
 SGB 1992.4 R23 -.0305 R13 -.9062
 SG1 1957.4 SG2 372.1 THA 4.19

ORBIT DETERMINATION ACCURACY

ST 950.6 SR 393.6 SS 870.2
 CRT .8183 CRS .8885 CST .9904
 LSA 1329.7 MSA 217.3 SSA 16.2
 EL1 1006.4 EL2 213.7 ALF 19.64

LAUNCH DATE DEC 23 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 284.666

RL 147.15 LAL .00 LOL 91.24 VL 26.457 GAL 5.66 AZL 87.20 MCA 119.20 SMA 120.22 ECC .24370 INC 2.7958 V1 30.277
 RP 108.07 LAP 2.44 LOP 210.46 VP 36.773 GAP -12.88 AZP 91.36 TAL 161.78 TAP 280.98 RCA 90.93 APO 149.52 V2 35.067
 RC 43.658 GL 14.94 GP 4.21 ZAL 57.10 ZAP 6.73 ETS 323.61 ZAE 168.33 ETE 337.07 ZAC 117.50 ETC 163.70 CLP -5.26

PLANETOCENTRIC CONIC

C3 24.820 VHL 4.982 CLA 27.35 RAL 27.60 RAD 6568.0 VEL 12.091 PTH 2.16 VHP 8.488 DPA 11.14 RAP 22.62 ECC 1.4085
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 10 56 3376.97 -23.14 122.86 261.39 73.21 3 7 13 2777.0 -25.22 114.81
 90.00 0 1 4 3800.45 -12.49 149.31 257.06 64.38 1 4 25 3200.4 -15.84 142.23
 100.00 4 10 33 2991.35 -26.69 95.56 262.47 76.02 5 0 24 2391.4 -28.35 87.15
 100.00 0 44 8 3661.30 -9.21 137.39 255.35 61.44 1 45 9 3061.3 -12.95 130.60
 110.00 6 16 44 2596.47 -33.14 67.08 263.97 81.11 7 0 1 1996.5 -34.02 57.95
 110.00 0 54 26 3628.95 -3.58 131.50 251.91 55.98 1 54 55 3029.0 -8.03 125.23

DIFFERENTIAL CORRECTIONS

TOE -.7163 TRA-1.4111 TC3 .1608 BAU .0553
 RDE -.3394 RRA .0010 RC3 -.0442 FAU .03251
 FDE .9743 FRA 1.4113 FC3 -1.1340 BSP 6534
 BDE .7926 BRA 1.4111 BC3 .1667 FSP -587

MID-COURSE EXECUTION ACCURACY

SGT 2010.6 SGR 392.8 SG3 209.4
 RRT .3953 RRF -.4048 RTF -.9119
 SGB 2048.7 R23 -.0353 R13 -.9125
 SG1 2016.8 SG2 359.7 THA 4.56

ORBIT DETERMINATION ACCURACY

ST 989.5 SR 390.4 SS 915.1
 CRT .8320 CRS .8974 CST .9910
 LSA 1387.3 MSA 210.0 SSA 16.2
 EL1 1043.7 EL2 205.3 ALF 18.93

LAUNCH DATE DEC 23 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 291.409

RL 147.15 LAL .00 LOL 91.24 VL 26.592 GAL 5.36 AZL 87.27 MCA 122.41 SMA 121.01 ECC .23446 INC 2.7298 V1 30.277
 RP 108.11 LAP 2.30 LOP 213.67 VP 36.858 GAP -12.12 AZP 91.46 TAL 161.87 TAP 284.28 RCA 92.64 APO 149.38 V2 35.053
 RC 44.405 GL 15.27 GP 4.60 ZAL 57.38 ZAP 8.36 ETS 328.97 ZAE 166.30 ETE 344.35 ZAC 118.78 ETC 163.20 CLP -6.99

PLANETOCENTRIC CONIC

C3 22.937 VHL 4.789 CLA 27.57 RAL 27.23 RAD 6567.9 VEL 12.013 PTH 2.14 VHP 8.062 DPA 12.10 RAP 23.85 ECC 1.3775
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 1 31 3383.77 -23.01 123.31 259.51 73.02 2 57 55 2783.8 -25.12 115.28
 90.00 0 7 31 3755.03 -13.81 146.63 255.80 65.03 1 10 6 3155.0 -17.06 139.46
 100.00 4 4 29 2987.36 -26.76 95.28 260.65 76.15 4 54 16 2387.4 -28.40 86.86
 100.00 0 47 14 3626.67 -10.33 135.43 254.02 61.79 1 47 41 3026.7 -14.02 128.58
 110.00 6 12 41 2586.18 -33.25 66.30 262.13 81.56 6 55 47 1986.2 -34.06 57.15
 110.00 0 55 32 3600.62 -4.66 130.02 250.58 56.10 1 55 32 3000.6 -9.08 123.72

DIFFERENTIAL CORRECTIONS

TOE -.7177 TRA-1.3807 TC3 .2238 BAU .0693
 RDE -.3241 RRA -.0134 RC3 -.0324 FAU .03502
 FDE 1.0391 FRA 1.4789 FC3 -1.3216 BSP 6797
 BDE .7875 BRA 1.3808 BC3 .2262 FSP -655

MID-COURSE EXECUTION ACCURACY

SGT 2062.9 SGR 389.4 SG3 230.7
 RRT .4482 RRF -.4605 RTF -.9181
 SGB 2099.3 R23 -.0414 R13 -.9188
 SG1 2070.4 SG2 346.8 THA 4.98

ORBIT DETERMINATION ACCURACY

ST 1024.6 SR 387.8 SS 961.4
 CRT .8456 CRS .9065 CST .9916
 LSA 1443.3 MSA 202.6 SSA 16.1
 EL1 1077.7 EL2 196.8 ALF 18.38

LAUNCH DATE DEC 23 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 298.143

RL 147.15 LAL .00 LOL 91.24 VL 26.717 GAL 5.08 AZL 87.34 MCA 125.61 SMA 121.75 ECC .22587 INC 2.6589 V1 30.277
 RP 108.15 LAP 2.16 LOP 216.88 VP 36.935 GAP -11.39 AZP 91.55 TAL 161.99 TAP 287.61 RCA 94.25 APO 149.25 V2 35.040
 RC 45.309 GL 15.54 GP 5.06 ZAL 57.69 ZAP 10.11 ETS 332.49 ZAE 164.31 ETE 349.84 ZAC 119.97 ETC 162.64 CLP -8.77

PLANETOCENTRIC CONIC

C3 21.237 VHL 4.608 DLA 27.73 RAL 26.83 RAD 6567.9 VEL 11.942 PTH 2.13 VHP 7.652 DPA 13.09 RAP 25.00 ECC 1.3495
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 53 38 3385.81 -22.97 123.45 257.68 72.97 2 50 4 2785.8 -25.08 115.42
 90.00 0 12 14 3715.71 -14.93 144.28 254.47 65.65 1 14 10 3115.7 -18.09 137.03
 100.00 3 59 33 2979.89 -26.88 94.76 258.86 76.40 4 49 13 2379.9 -28.48 86.32
 100.00 0 49 0 3596.86 -11.28 133.73 252.64 62.13 1 48 57 2996.9 -14.92 126.83
 110.00 6 9 16 2573.95 -33.37 65.36 260.29 82.10 6 52 10 1973.9 -34.10 56.20
 110.00 0 55 47 3575.57 -5.61 128.70 249.22 56.23 1 55 23 2975.6 -10.01 122.37

DIFFERENTIAL CORRECTIONS

TDE -.7205 TRA-1.3515 TC3 .2885 BAU .0820
 RDE -.3107 RRA -.0284 RC3 -.0168 FAU .03776
 FDE 1.1111 FRA 1.5549 FC3-1.5392 BSP 6989
 BDE .7847 BRA 1.3518 BC3 .2890 FSP -728

MID-COURSE EXECUTION ACCURACY

SGT 2115.9 SGR 388.7 SG3 254.7
 RRT .5079 RRF -.5226 RTF -.9235
 SGB 2151.3 R23 -.0483 R13 -.9244
 SGI 2125.3 SG2 335.3 TMA 5.46

ORBIT DETERMINATION ACCURACY

ST 1061.6 SR 386.5 SS 1011.3
 CRT .8601 CRS .9160 CST .9922
 LSA 1503.6 MSA 194.7 SSA 16.1
 EL1 1114.0 EL2 187.9 ALF 17.91

LAUNCH DATE DEC 23 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

DISTANCE 304.866

RL 147.15 LAL .00 LOL 91.24 VL 26.832 GAL 4.82 AZL 87.42 MCA 128.82 SMA 122.44 ECC .21790 INC 2.5822 V1 30.277
 RP 108.19 LAP 2.01 LOP 220.09 VP 37.006 GAP -10.69 AZP 91.62 TAL 162.15 TAP 290.97 RCA 95.76 APO 149.12 V2 35.027
 RC 46.364 GL 15.75 GP 5.59 ZAL 58.03 ZAP 11.98 ETS 334.84 ZAE 162.43 ETE 354.24 ZAC 121.06 ETC 162.00 CLP -10.61

PLANETOCENTRIC CONIC

C3 19.701 VHL 4.439 DLA 27.81 RAL 26.42 RAD 6567.8 VEL 11.878 PTH 2.11 VHP 7.260 DPA 14.11 RAP 26.06 ECC 1.3242
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 48 27 3379.46 -23.09 123.03 255.93 73.14 2 44 47 2779.5 -25.18 114.98
 90.00 0 14 9 3686.17 -15.75 142.50 253.05 66.16 1 15 35 3086.2 -18.84 135.19
 100.00 3 56 9 2967.79 -27.07 93.91 257.11 76.81 4 45 37 2367.8 -28.62 85.45
 100.00 0 49 7 3573.07 -12.04 132.36 251.21 62.43 1 48 41 2973.1 -15.63 125.42
 110.00 6 6 41 2559.29 -33.50 64.24 258.45 82.75 6 49 20 1959.3 -34.14 55.05
 110.00 0 55 5 3554.33 -6.41 127.58 247.84 56.35 1 54 20 2954.3 -10.79 121.22

DIFFERENTIAL CORRECTIONS

TDE -.7217 TRA-1.3223 TC3 .3578 BAU .0942
 RDE -.2993 RRA -.0442 RC3 .0036 FAU .04082
 FDE 1.1892 FRA 1.6402 FC3-1.7937 BSP 7158
 BDE .7812 BRA 1.3230 BC3 .3578 FSP -809

MID-COURSE EXECUTION ACCURACY

SGT 2166.3 SGR 391.7 SG3 281.6
 RRT .5722 RRF -.5896 RTF -.9285
 SGB 2201.4 R23 -.0567 R13 -.9295
 SGI 2178.1 SG2 319.5 TMA 6.04

ORBIT DETERMINATION ACCURACY

ST 1096.8 SR 386.8 SS 1063.4
 CRT .8747 CRS .9255 CST .9928
 LSA 1564.7 MSA 186.8 SSA 16.0
 EL1 1149.2 EL2 178.9 ALF 17.58

LAUNCH DATE DEC 23 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 311.575

RL 147.15 LAL .00 LOL 91.24 VL 26.937 GAL 4.57 AZL 87.50 MCA 132.02 SMA 123.08 ECC .21053 INC 2.4983 V1 30.277
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.070 GAP -10.01 AZP 91.67 TAL 162.33 TAP 294.35 RCA 97.17 APO 149.00 V2 35.013
 RC 47.558 GL 15.87 GP 6.21 ZAL 58.39 ZAP 13.97 ETS 336.43 ZAE 160.71 ETE 358.00 ZAC 122.03 ETC 161.30 CLP -12.54

PLANETOCENTRIC CONIC

C3 18.311 VHL 4.279 DLA 27.80 RAL 26.01 RAD 6567.7 VEL 11.819 PTH 2.09 VHP 6.883 DPA 15.19 RAP 27.02 ECC 1.3014
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 47 13 3360.85 -23.46 121.78 254.30 73.66 2 43 14 2760.9 -25.47 113.69
 90.00 0 12 4 3670.29 -16.18 141.54 251.50 66.44 1 13 15 3070.3 -19.23 134.19
 100.00 3 54 43 2949.87 -27.34 92.65 255.41 77.42 4 43 52 2349.9 -28.80 84.15
 100.00 0 47 16 3556.50 -12.56 131.41 249.72 62.65 1 46 33 2956.5 -16.12 124.43
 110.00 6 5 8 2541.67 -33.64 62.88 256.64 83.54 6 47 30 1941.7 -34.17 53.68
 110.00 0 53 20 3537.47 -7.05 126.69 246.44 56.46 1 52 17 2937.5 -11.41 120.31

DIFFERENTIAL CORRECTIONS

TDE -.7201 TRA-1.2920 TC3 .4320 BAU .1060
 RDE -.2899 RRA -.0613 RC3 .0300 FAU .04424
 FDE 1.2733 FRA 1.7354 FC3-2.0915 BSP 7316
 BDE .7763 BRA 1.2934 BC3 .4331 FSP -901

MID-COURSE EXECUTION ACCURACY

SGT 2211.5 SGR 399.9 SG3 311.6
 RRT .6390 RRF -.6595 RTF -.9330
 SGB 2247.4 R23 -.0673 R13 -.9342
 SGI 2226.5 SG2 305.6 TMA 6.72

ORBIT DETERMINATION ACCURACY

ST 1128.7 SR 389.2 SS 1117.5
 CRT .8892 CRS .9351 CST .9934
 LSA 1625.4 MSA 178.8 SSA 15.8
 EL1 1181.7 EL2 170.0 ALF 17.42

LAUNCH DATE DEC 23 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 318.269

RL 147.15 LAL .00 LOL 91.24 VL 27.034 GAL 4.34 AZL 87.59 MCA 135.23 SMA 123.68 ECC .20373 INC 2.4056 V1 30.277
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.128 GAP -9.35 AZP 91.71 TAL 162.54 TAP 297.77 RCA 98.49 APO 148.88 V2 35.000
 RC 48.883 GL 15.90 GP 6.94 ZAL 58.76 ZAP 16.09 ETS 337.45 ZAE 159.16 ETE 342.14 ZAC 122.87 ETC 160.50 CLP -14.55

PLANETOCENTRIC CONIC

C3 17.052 VHL 4.129 DLA 27.69 RAL 25.61 RAD 6567.7 VEL 11.766 PTH 2.08 VHP 6.523 DPA 16.32 RAP 27.85 ECC 1.2806
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 32 3328.22 -24.06 119.58 252.80 74.60 2 46 0 2728.2 -25.94 111.42
 90.00 0 5 33 3669.84 -16.19 141.51 249.84 66.45 1 6 43 3069.8 -19.24 134.16
 100.00 3 55 35 2925.09 -27.70 90.89 253.77 78.28 4 44 20 2325.1 -29.03 82.34
 100.00 0 43 11 3548.20 -12.82 130.93 248.18 62.76 1 42 20 2948.2 -16.37 123.94
 110.00 6 4 52 2520.47 -33.79 61.25 254.84 84.50 6 46 53 1920.5 -34.18 52.02
 110.00 0 50 23 3525.59 -7.50 126.06 245.02 56.55 1 49 9 2925.6 -11.84 119.66

DIFFERENTIAL CORRECTIONS

TDE -.7152 TRA-1.2606 TC3 .5113 BAU .1175
 RDE -.2828 RRA -.0800 RC3 .0641 FAU .04809
 FDE 1.3623 FRA 1.8420 FC3-2.4415 BSP 7474
 BDE .7691 BRA 1.2631 BC3 .5153 FSP -1005

MID-COURSE EXECUTION ACCURACY

SGT 2250.4 SGR 415.3 SG3 345.3
 RRT .7054 RRF -.7292 RTF -.9372
 SGB 2288.4 R23 -.0802 R13 -.9387
 SGI 2269.8 SG2 291.9 TMA 7.54

ORBIT DETERMINATION ACCURACY

ST 1155.8 SR 394.2 SS 1172.3
 CRT .9035 CRS .9444 CST .9939
 LSA 1684.1 MSA 170.8 SSA 15.7
 EL1 1210.5 EL2 161.3 ALF 17.45

LAUNCH DATE DEC 23 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.122 GAL 4.12 AZL 87.70 MCA 138.42 SMA 124.24 ECC .19747 INC 2.3019 V1 30.277
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.180 GAP -8.71 AZP 91.72 TAL 162.77 TAP 301.20 RCA 99.70 APO 148.77 V2 34.987
 RC 50.327 GL 15.81 GP 7.81 ZAL 59.13 ZAP 18.34 ETS 338.05 ZAE 157.81 ETE 4.71 ZAC 123.54 ETC 159.62 CLP -16.65

PLANETOCENTRIC CONIC

C3 15.910 VML 3.989 DLA 27.45 RAL 25.23 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 6.181 DPA 17.54 RAP 28.54 ECC 1.2618
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 58 3 3282.74 -24.85 116.48 251.39 75.97 2 52 46 2682.7 -26.54 108.22
 90.00 23 51 7 3683.60 -15.82 142.35 248.10 66.20 24 52 31 3083.6 -18.90 135.03
 100.00 3 59 4 2892.61 -28.12 88.57 252.19 79.43 4 47 17 2292.6 -29.30 79.97
 100.00 0 36 43 3548.96 -12.79 130.97 246.61 62.75 1 35 52 2949.0 -16.34 123.98
 110.00 6 6 8 2494.96 -33.94 59.27 253.08 85.66 6 47 43 1895.0 -34.17 50.03
 110.00 0 46 8 3519.37 -7.73 125.73 243.60 56.60 1 44 48 2919.4 -12.07 119.32

DIFFERENTIAL CORRECTIONS

TOE -.7044 TRA-1.2261 TC3 .5991 BAU .1295
 ROE -.2781 RRA -.1008 RC3 .1084 FAU .05247
 FDE 1.4538 FRA 1.9599 FC3-2.8552 B8P 7659
 BOE .7573 BRA 1.2302 BC3 .6089 F8P -1125

MID-COURSE EXECUTION ACCURACY

SGT 2278.4 SGR 440.1 SG3 382.6
 RRT .7674 RRF -.7947 RTF -.9413
 SGB 2320.5 R23 -.0957 R13 -.9432
 SG1 2303.6 SG2 279.1 THA 8.56

ORBIT DETERMINATION ACCURACY

ST 1174.1 SR 402.4 SS 1226.1
 CRT .9172 CRS .9534 CST .9944
 LSA 1737.0 MSA 162.8 SSA 15.4
 EL1 1231.7 EL2 152.9 ALF 17.73

LAUNCH DATE DEC 23 1968

FLIGHT TIME 128.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.203 GAL 3.92 AZL 87.82 MCA 141.62 SMA 124.75 ECC .19173 INC 2.1843 V1 30.277
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.226 GAP -8.10 AZP 91.71 TAL 163.02 TAP 304.64 RCA 100.83 APO 148.67 V2 34.974
 RC 51.881 GL 15.56 GP 8.84 ZAL 59.50 ZAP 20.77 ETS 338.31 ZAE 156.64 ETE 8.06 ZAC 124.02 ETC 158.63 CLP -18.87

PLANETOCENTRIC CONIC

C3 14.871 VML 3.856 DLA 27.06 RAL 24.91 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 5.855 DPA 18.87 RAP 29.05 ECC 1.2447
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 9 5 3226.76 -25.72 112.61 250.06 77.72 3 2 52 2626.8 -27.15 104.24
 90.00 23 37 29 3709.18 -15.11 143.89 246.33 65.76 24 39 18 3109.2 -18.26 136.63
 100.00 4 5 23 2851.86 -28.60 85.64 250.67 80.91 4 52 55 2251.9 -29.56 76.97
 100.00 0 27 49 3559.31 -12.47 131.57 245.01 62.61 1 27 8 2959.3 -16.04 124.60
 110.00 6 9 13 2464.34 -34.07 56.89 251.34 87.07 6 50 18 1864.3 -34.10 47.64
 110.00 0 40 28 3519.59 -7.72 125.74 242.19 56.60 1 39 7 2919.6 -12.06 119.33

DIFFERENTIAL CORRECTIONS

TOE -.6920 TRA-1.1941 TC3 .6814 BAU .1394
 ROE -.2763 RRA -.1253 RC3 .1645 FAU .05723
 FDE 1.5498 FRA 2.0960 FC3-3.3316 B8P 7754
 BOE .7452 BRA 1.2006 BC3 .7010 F8P -1253

MID-COURSE EXECUTION ACCURACY

SGT 2302.7 SGR 477.8 SG3 424.5
 RRT .8226 RRF -.8529 RTF -.9445
 SGB 2351.8 R23 -.1147 R13 -.9470
 SG1 2336.5 SG2 267.8 THA 9.82

ORBIT DETERMINATION ACCURACY

ST 1189.4 SR 415.3 SS 1280.7
 CRT .9305 CRS .9619 CST .9950
 LSA 1789.8 MSA 154.5 SSA 15.2
 EL1 1251.5 EL2 144.6 ALF 18.25

LAUNCH DATE DEC 23 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.276 GAL 3.74 AZL 87.95 MCA 144.81 SMA 125.22 ECC .18649 INC 2.0490 V1 30.277
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.268 GAP -7.50 AZP 91.67 TAL 163.28 TAP 308.09 RCA 101.87 APO 148.57 V2 34.961
 RC 53.536 GL 15.12 GP 10.09 ZAL 59.85 ZAP 23.38 ETS 338.26 ZAE 155.64 ETE 11.63 ZAC 124.27 ETC 157.52 CLP -21.21

PLANETOCENTRIC CONIC

C3 13.923 VML 3.731 DLA 26.50 RAL 24.65 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 5.549 DPA 20.35 RAP 29.36 ECC 1.2291
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 23 11 3161.82 -26.58 108.05 248.76 79.85 3 15 53 2561.8 -27.71 99.57
 90.00 23 21 22 3744.94 -14.10 146.03 244.58 65.19 24 23 47 3144.9 -17.33 138.84
 100.00 4 14 42 2802.34 -29.08 82.03 249.19 82.75 5 1 24 2202.3 -29.78 73.30
 100.00 0 16 29 3579.66 -11.83 132.74 243.43 62.35 1 16 8 2979.7 -15.44 125.81
 110.00 6 14 27 2427.61 -34.16 54.02 249.63 88.76 6 54 55 1827.6 -33.96 44.78
 110.00 0 33 12 3527.15 -7.44 126.14 240.80 56.54 1 31 59 2927.2 -11.79 119.75

DIFFERENTIAL CORRECTIONS

TOE -.6732 TRA-1.1602 TC3 .7655 BAU .1492
 ROE -.2776 RRA -.1541 RC3 .2370 FAU .06253
 FDE 1.6429 FRA 2.2487 FC3-3.8880 B8P 7849
 BOE .7282 BRA 1.1704 BC3 .8013 F8P -1397

MID-COURSE EXECUTION ACCURACY

SGT 2314.7 SGR 531.9 SG3 470.6
 RRT .8676 RRF -.9005 RTF -.9475
 SGB 2375.0 R23 -.1368 R13 -.9508
 SG1 2360.8 SG2 259.3 THA 11.41

ORBIT DETERMINATION ACCURACY

ST 1194.0 SR 433.6 SS 1331.3
 CRT .9428 CRS .9697 CST .9955
 LSA 1834.2 MSA 146.0 SSA 14.9
 EL1 1262.9 EL2 136.6 ALF 19.13

LAUNCH DATE DEC 23 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.343 GAL 3.57 AZL 88.11 MCA 148.00 SMA 125.65 ECC .18171 INC 1.8906 V1 30.277
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.305 GAP -6.92 AZP 91.60 TAL 163.54 TAP 311.55 RCA 102.82 APO 148.48 V2 34.948
 RC 55.282 GL 14.43 GP 11.82 ZAL 60.16 ZAP 26.23 ETS 337.94 ZAE 154.78 ETE 15.63 ZAC 124.24 ETC 156.28 CLP -23.68

PLANETOCENTRIC CONIC

C3 13.054 VML 3.613 DLA 25.70 RAL 24.50 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 5.262 DPA 22.03 RAP 29.41 ECC 1.2148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 40 14 3088.27 -27.35 102.81 247.48 82.37 3 31 42 2488.3 -28.12 94.23
 90.00 23 3 7 3790.45 -12.78 148.72 242.88 64.52 24 6 17 3190.4 -16.11 141.63
 100.00 4 27 14 2743.33 -29.51 77.70 247.75 84.99 5 12 57 2143.3 -29.89 68.92
 100.00 0 2 45 3610.61 -10.84 134.51 241.89 61.97 1 2 55 3010.6 -14.51 127.64
 110.00 6 22 15 2383.47 -34.17 50.57 247.95 90.80 7 1 58 1783.5 -33.69 41.36
 110.00 0 24 13 3543.24 -6.83 126.99 239.47 56.42 1 23 16 2943.2 -11.20 120.62

DIFFERENTIAL CORRECTIONS

TOE -.6462 TRA-1.1243 TC3 .8513 BAU .1595
 ROE -.2819 RRA -.1892 RC3 .3319 FAU .06839
 FDE 1.7259 FRA 2.4194 FC3-4.5355 B8P 7957
 BOE .7050 BRA 1.1401 BC3 .9137 F8P -1560

MID-COURSE EXECUTION ACCURACY

SGT 2311.7 SGR 606.9 SG3 521.0
 RRT .9014 RRF -.9366 RTF -.9502
 SGB 2390.0 R23 -.1603 R13 -.9547
 SG1 2376.3 SG2 255.6 THA 13.47

ORBIT DETERMINATION ACCURACY

ST 1184.4 SR 458.2 SS 1373.9
 CRT .9538 CRS .9765 CST .9960
 LSA 1865.8 MSA 137.3 SSA 14.7
 EL1 1263.4 EL2 129.1 ALF 20.48

LAUNCH DATE DEC 23 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.403 GAL 3.41 AZL 88.30 HCA 151.19 SMA 126.05 ECC .17739 INC 1.7012 V1 30.277
 RP 108.47 LAP .82 LOP 242.44 VP 37.337 GAP -6.36 AZP 91.49 TAL 163.81 TAP 315.00 RCA 103.69 APO 148.41 V2 34.936
 RC 57.109 GL 13.41 GP 13.51 ZAL 60.43 ZAP 29.35 ETS 337.35 ZAE 153.97 ETE 20.24 ZAC 123.88 ETC 154.89 CLP -26.31

PLANETOCENTRIC CONIC

C3 12.255 VHL 3.501 DLA 24.60 RAL 24.49 RAD 6567.5 VEL 11.560 PTH 2.02 VHP 4.999 DPA 23.99 RAP 29.15 ECC 1.2017
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 0 30 3005.19 -27.96 96.81 246.21 85.32 3 50 35 2405.2 -28.31 88.16
 90.00 22 42 46 3846.50 -11.12 152.00 241.29 63.79 23 46 53 3246.5 -14.55 145.00
 100.00 4 43 20 2673.63 -29.81 72.54 246.34 87.69 5 27 54 2073.6 -29.81 63.74
 100.00 23 42 37 3653.29 -9.47 136.94 240.43 61.51 24 43 30 3053.3 -13.20 130.14
 110.00 6 33 6 2330.21 -34.05 46.42 246.30 93.26 7 11 56 1730.2 -33.22 37.28
 110.00 0 13 16 3569.48 -5.84 128.38 238.22 56.26 1 12 46 2969.5 -10.24 122.04

DIFFERENTIAL CORRECTIONS

TDE -.6144 TRA-1.0901 TC3 .9230 BAU .1686
 RDE -.2901 RRA -.2337 RC3 .4351 FAU .07451
 FDE 1.7943 FRA 2.6141 FC3-5.2634 BSP 7991
 BOE .6795 BRA 1.1149 BC3 1.0291 FSP -1729

MID-COURSE EXECUTION ACCURACY

SGT 2297.7 SGR 709.8 SG3 575.4
 RRT .9250 RRF -.9621 RTF -.9521
 SGB 2404.8 R23 -.1841 R13 -.9583
 SG1 2390.8 SG2 259.2 THA 16.14

ORBIT DETERMINATION ACCURACY

ST 1165.4 SR 491.4 SS 1408.1
 CRT .9638 CRS .9822 CST .9965
 LSA 1888.3 MSA 127.6 SSA 14.5
 EL1 1258.9 EL2 121.3 ALF 22.34

LAUNCH DATE DEC 23 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.458 GAL 3.27 AZL 88.53 HCA 154.38 SMA 126.40 ECC .17349 INC 1.4694 V1 30.277
 RP 108.51 LAP .64 LOP 245.62 VP 37.365 GAP -5.82 AZP 91.33 TAL 164.07 TAP 318.44 RCA 104.47 APO 148.33 V2 34.923
 RC 59.010 GL 11.96 GP 15.88 ZAL 60.65 ZAP 32.81 ETS 336.49 ZAE 153.08 ETE 25.69 ZAC 123.08 ETC 153.32 CLP -29.10

PLANETOCENTRIC CONIC

C3 11.518 VHL 3.394 DLA 23.10 RAL 24.67 RAD 6567.4 VEL 11.528 PTH 2.01 VHP 4.763 DPA 26.32 RAP 28.49 ECC 1.1896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 24 36 2910.32 -28.29 89.89 244.94 88.77 4 13 7 2310.3 -28.16 81.23
 90.00 22 20 6 3915.29 -9.02 155.96 239.86 63.04 23 25 21 3315.3 -12.57 149.08
 100.00 5 3 38 2591.05 -29.88 66.41 244.95 90.91 5 46 49 1991.0 -29.43 57.63
 100.00 23 23 45 3709.80 -7.62 140.11 239.11 61.01 24 25 35 3109.8 -11.43 133.39
 110.00 6 47 45 2265.29 -33.68 41.39 244.67 96.21 7 25 31 1665.3 -32.46 32.37
 110.00 0 0 3 3608.53 -4.37 130.42 237.11 56.06 1 0 11 3008.3 -8.80 124.13

DIFFERENTIAL CORRECTIONS

TDE -.5732 TRA-1.0542 TC3 .9865 BAU .1793
 RDE -.3012 RRA -.2910 RC3 .6191 FAU .08088
 FDE 1.8271 FRA 2.8275 FC3-6.0795 BSP 8032
 BOE .6475 BRA 1.0936 BC3 1.1647 FSP -1908

MID-COURSE EXECUTION ACCURACY

SGT 2264.6 SGR 848.8 SG3 631.8
 RRT .9400 RRF -.9786 RTF -.9534
 SGB 2418.4 R23 -.2027 R13 -.9624
 SG1 2403.0 SG2 272.9 THA 19.67

ORBIT DETERMINATION ACCURACY

ST 1128.6 SR 533.3 SS 1422.7
 CRT .9725 CRS .9868 CST .9972
 LSA 1889.1 MSA 116.6 SSA 14.6
 EL1 1243.2 EL2 112.8 ALF 24.90

LAUNCH DATE DEC 23 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.506 GAL 3.15 AZL 88.82 HCA 157.56 SMA 126.73 ECC .16999 INC 1.1772 V1 30.277
 RP 108.55 LAP .45 LOP 248.80 VP 37.390 GAP -5.29 AZP 91.09 TAL 164.31 TAP 321.87 RCA 105.18 APO 148.27 V2 34.911
 RC 60.976 GL 9.87 GP 18.92 ZAL 60.80 ZAP 36.71 ETS 335.36 ZAE 151.91 ETE 32.16 ZAC 121.73 ETC 151.58 CLP -32.06

PLANETOCENTRIC CONIC

C3 10.839 VHL 3.292 DLA 21.01 RAL 25.11 RAD 6567.4 VEL 11.499 PTH 2.00 VHP 4.562 DPA 29.18 RAP 27.31 ECC 1.1784
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 53 42 2799.64 -28.19 81.80 243.68 92.82 4 40 22 2199.6 -27.50 73.20
 90.00 21 54 31 4000.93 -6.34 160.83 238.68 62.35 23 1 12 3400.9 -10.00 154.06
 100.00 5 29 10 2491.80 -29.54 59.05 243.58 94.77 6 10 42 1891.8 -28.57 50.38
 100.00 23 1 44 3784.00 -5.15 144.24 238.02 60.51 24 4 48 3184.0 -9.04 137.61
 110.00 7 7 17 2184.85 -32.92 35.23 243.07 99.78 7 43 42 1584.8 -31.22 26.42
 110.00 23 40 7 3663.71 -2.26 133.32 236.23 55.88 24 41 10 3063.7 -6.72 127.08

DIFFERENTIAL CORRECTIONS

TDE -.5212 TRA-1.0156 TC3 1.0378 BAU .1935
 RDE -.3136 RRA -.3668 RC3 .8406 FAU .08714
 FDE 1.7988 FRA 3.0518 FC3-6.9601 BSP 8119
 BOE .6083 BRA 1.0798 BC3 1.3355 FSP -2090

MID-COURSE EXECUTION ACCURACY

SGT 2207.8 SGR 1035.4 SG3 686.7
 RRT .9485 RRF -.9887 RTF -.9541
 SGB 2438.5 R23 -.2104 R13 -.9674
 SG1 2420.1 SG2 299.2 THA 24.38

ORBIT DETERMINATION ACCURACY

ST 1070.5 SR 583.3 SS 1406.3
 CRT .9801 CRS .9902 CST .9980
 LSA 1858.2 MSA 103.2 SSA 15.0
 EL1 1214.8 EL2 102.1 ALF 28.52

LAUNCH DATE DEC 23 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.550 GAL 3.03 AZL 89.21 HCA 160.74 SMA 127.02 ECC .16688 INC .7934 V1 30.277
 RP 108.58 LAP .26 LOP 251.98 VP 37.411 GAP -4.78 AZP 90.75 TAL 164.54 TAP 325.28 RCA 105.82 APO 148.21 V2 34.900
 RC 63.000 GL 6.85 GP 22.87 ZAL 60.92 ZAP 41.16 ETS 333.95 ZAE 150.08 ETE 39.73 ZAC 119.65 ETC 149.63 CLP -35.21

PLANETOCENTRIC CONIC

C3 10.228 VHL 3.198 DLA 18.07 RAL 25.92 RAD 6567.4 VEL 11.472 PTH 1.99 VHP 4.410 DPA 32.78 RAP 25.40 ECC 1.1683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 29 41 2686.26 -27.36 72.13 242.48 97.60 5 14 7 2066.3 -26.03 63.72
 90.00 21 24 59 4110.79 -2.84 167.00 237.90 61.81 22 33 30 3510.8 -6.59 160.33
 100.00 6 1 44 2369.42 -28.52 50.10 242.28 99.37 6 41 14 1769.4 -26.93 41.66
 100.00 22 35 37 3882.86 -1.82 149.68 237.33 60.16 23 40 20 3282.9 -5.77 143.13
 110.00 7 33 23 2082.65 -31.48 27.61 241.57 104.07 8 8 6 1482.7 -29.22 19.13
 110.00 23 20 27 3742.39 .75 137.42 235.73 55.82 24 22 49 3142.4 -3.74 131.22

DIFFERENTIAL CORRECTIONS

TDE -.4562 TRA -.9736 TC3 1.0758 BAU .2146
 RDE -.3228 RRA -.4706 RC3 1.1432 FAU .09254
 FDE 1.6709 FRA 3.2703 FC3-7.8335 BSP 8346
 BOE .5588 BRA 1.0813 BC3 1.5698 FSP -2261

MID-COURSE EXECUTION ACCURACY

SGT 2123.1 SGR 1286.6 SG3 733.4
 RRT .9528 RRF -.9944 RTF -.9545
 SGB 2482.5 R23 -.2016 R13 -.9740
 SG1 2459.5 SG2 337.2 THA 30.64

ORBIT DETERMINATION ACCURACY

ST 985.6 SR 636.9 SS 1341.7
 CRT .9869 CRS .9925 CST .9990
 LSA 1780.3 MSA 86.7 SSA 16.1
 EL1 1170.3 EL2 86.5 ALF 32.73

LAUNCH DATE DEC 23 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 377.673

RL 147.15 LAL .00 LOL 91.24 VL 27.588 GAL 2.94 AZL 89.73 MCA 163.92 SMA 127.27 ECC .16412 INC .2650 V1 30.277
 RP 108.62 LAP .07 LOP 255.16 VP 37.429 GAP -4.28 AZP 90.26 TAL 164.75 TAP 328.67 RCA 106.39 APO 148.16 V2 34.889
 RC 65.076 GL 2.35 GP 28.12 ZAL 61.05 ZAP 46.37 ETS 332.27 ZAE 147.05 ETE 48.20 ZAC 116.59 ETC 147.51 CLP -38.52

PLANETOCENTRIC CONIC

C3 9.723 VHL 3.118 OLA 13.75 RAL 27.27 RAD 6567.4 VEL 11.450 PTH 1.99 VHP 4.334 DPA 37.44 RAP 22.44 ECC 1.1600
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 15 55 2498.26 -25.29 60.28 241.51 103.18 5 57 33 1898.3 -23.22 52.22
 90.00 20 49 29 4258.64 1.93 175.25 237.87 61.74 22 0 28 3658.6 -1.86 168.62
 100.00 6 44 30 2212.56 -26.27 38.99 241.24 104.80 7 21 23 1612.6 -23.98 30.94
 100.00 22 3 35 4019.57 2.82 157.18 237.38 60.23 23 10 35 3419.6 -1.17 150.66
 110.00 8 9 1 1948.15 -28.85 18.02 240.35 109.18 8 41 29 1348.1 -25.96 10.04
 110.00 22 55 34 3856.75 5.11 143.41 235.95 56.15 23 59 51 3256.8 .63 137.19

DIFFERENTIAL CORRECTIONS

TDE -.3790 TRA -.9284 TC3 1.0871 BAU .2466
 RDE -.3175 RRA -.6168 RC3 1.5550 FAU .09564
 FDE 1.3926 FRA 3.4424 FC3-8.5158 BSP 8787
 BDE .4944 BRA 1.1146 BC3 1.8973 FSP -2385

MID-COURSE EXECUTION ACCURACY

SGT 2007.3 SGR 1625.5 SG3 758.9
 RRT .9541 RRF -.9974 RTF -.9539
 SGB 2582.9 R23 -.1756 R13 -.9819
 SG1 2554.4 SG2 382.6 THA 38.72

ORBIT DETERMINATION ACCURACY

ST 873.5 SR 680.9 SS 1207.1
 CRT .9941 CRS .9938 CST .9996
 LSA 1636.7 MSA 68.1 SSA 18.6
 EL1 1106.0 EL2 58.5 ALF 37.90

LAUNCH DATE DEC 23 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 384.175

RL 147.15 LAL .00 LOL 91.24 VL 27.622 GAL 2.85 AZL 90.51 MCA 167.09 SMA 127.50 ECC .16172 INC .5122 V1 30.277
 RP 108.65 LAP -.11 LOP 258.33 VP 37.444 GAP -3.80 AZP 89.50 TAL 164.92 TAP 332.01 RCA 106.88 APO 148.12 V2 34.878
 RC 67.198 GL -4.60 GP 35.24 ZAL 61.41 ZAP 52.58 ETS 330.38 ZAE 142.00 ETE 56.93 ZAC 112.19 ETC 145.28 CLP -41.92

PLANETOCENTRIC CONIC

C3 9.467 VHL 3.077 OLA 7.14 RAL 29.47 RAD 6567.3 VEL 11.439 PTH 1.98 VHP 4.395 DPA 43.61 RAP 17.75 ECC 1.1558
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 50 2274.31 -20.97 45.30 241.37 109.47 6 56 44 1674.3 -18.13 37.78
 90.00 20 4 7 4472.08 8.70 187.28 239.42 62.95 21 18 39 3872.1 5.01 180.55
 100.00 7 43 36 2000.93 -21.82 24.86 241.03 110.95 8 16 56 1400.9 -18.78 17.39
 100.00 21 22 2 4220.69 9.51 168.37 238.99 61.53 22 32 23 3620.7 5.63 161.72
 110.00 8 59 39 1762.92 -24.08 5.75 239.99 115.03 9 29 2 1162.9 -20.51 358.43
 110.00 22 22 28 4031.47 11.62 152.74 237.72 57.63 23 29 40 3431.5 7.27 146.36

DIFFERENTIAL CORRECTIONS

TDE -.3749 TRA -.9636 TC3 .6819 BAU .2523
 RDE -.3221 RRA -.8840 RC3 1.8731 FAU .08417
 FDE 1.1242 FRA 3.7080 FC3-7.6971 BSP 7357
 BDE .4943 BRA 1.3076 BC3 1.9934 FSP -1971

MID-COURSE EXECUTION ACCURACY

SGT 1983.4 SGR 2107.3 SG3 749.5
 RRT .9337 RRF -.9989 RTF -.9320
 SGB 2893.9 R23 -.1726 R13 -.9839
 SG1 2845.7 SG2 525.7 THA 46.86

ORBIT DETERMINATION ACCURACY

ST 884.3 SR 780.2 SS 1123.9
 CRT .9990 CRS .9958 CST .9918
 LSA 1626.4 MSA 93.1 SSA 13.4
 EL1 1179.0 EL2 25.7 ALF 41.42

LAUNCH DATE DEC 23 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 390.634

RL 147.15 LAL .00 LOL 91.24 VL 27.652 GAL 2.78 AZL 91.79 MCA 170.26 SMA 127.70 ECC .15963 INC 1.7855 V1 30.277
 RP 108.68 LAP -.30 LOP 261.50 VP 37.456 GAP -3.33 AZP 88.24 TAL 165.07 TAP 335.33 RCA 107.32 APO 148.09 V2 34.867
 RC 69.360 GL -15.84 GP 45.04 ZAL 62.85 ZAP 60.16 ETS 328.47 ZAE 133.90 ETE 65.03 ZAC 105.93 ETC 143.19 CLP -45.23

PLANETOCENTRIC CONIC

C3 9.949 VHL 3.154 OLA -3.53 RAL 33.02 RAD 6567.4 VEL 11.460 PTH 1.99 VHP 4.736 DPA 51.80 RAP 9.72 ECC 1.1637
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 52 52 1951.37 -12.44 25.46 243.76 115.65 8 25 24 1351.4 -8.88 18.58
 90.00 18 58 25 4814.65 -18.48 207.67 244.77 68.15 20 18 40 4214.7 15.35 200.39
 100.00 9 12 34 1694.30 -13.24 6.15 243.35 117.05 9 40 48 1094.3 -9.51 359.35
 100.00 20 21 25 4546.96 19.31 187.62 244.41 66.73 21 37 12 3947.0 15.99 180.39
 110.00 10 17 1 1492.52 -15.38 349.61 242.13 120.91 10 41 54 892.5 -11.17 343.04
 110.00 21 33 27 4321.50 21.52 169.39 243.29 62.78 22 45 28 3721.5 17.70 162.35

DIFFERENTIAL CORRECTIONS

TDE -.2380 TRA -.8738 TC3 .7553 BAU .3400
 RDE -.1593 RRA -1.1939 RC3 2.4422 FAU .07769
 FDE .3374 FRA 3.3749 FC3-6.7604 BSP 9959
 BDE .2864 BRA 1.4795 BC3 2.5563 FSP -1986

MID-COURSE EXECUTION ACCURACY

SGT 1715.4 SGR 2679.2 SG3 648.2
 RRT .9387 RRF -.9996 RTF -.9374
 SGB 3181.3 R23 -.1023 R13 -.9944
 SG1 3141.1 SG2 504.3 THA 58.07

ORBIT DETERMINATION ACCURACY

ST 643.9 SR 714.7 SS 796.2
 CRT .9490 CRS .9953 CST .9143
 LSA 1230.9 MSA 210.5 SSA 4.7
 EL1 949.8 EL2 152.8 ALF 48.14

LAUNCH DATE DEC 23 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 397.068

RL 147.15 LAL .00 LOL 91.24 VL 27.677 GAL 2.73 AZL 94.27 MCA 173.42 SMA 127.88 ECC .15785 INC 4.2662 V1 30.277
 RP 108.72 LAP -.49 LOP 264.67 VP 37.466 GAP -2.88 AZP 85.76 TAL 165.17 TAP 338.59 RCA 107.69 APO 148.06 V2 34.858
 RC 71.560 GL -33.95 GP 58.49 ZAL 67.42 ZAP 69.29 ETS 326.66 ZAE 121.54 ETE 71.15 ZAC 97.39 ETC 141.45 CLP -47.42

PLANETOCENTRIC CONIC

C3 13.564 VHL 3.683 OLA -20.69 RAL 39.02 RAD 6567.5 VEL 11.617 PTH 2.04 VHP 5.803 DPA 62.15 RAP 353.70 ECC 1.2232
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 48 7 1418.39 4.39 355.34 255.34 118.00 11 11 45 818.4 8.10 348.63
 90.00 16 51 5 5476.95 28.28 253.18 261.13 88.39 18 22 22 4877.0 27.75 244.56
 100.00 11 55 46 1200.04 3.13 338.59 254.64 119.74 12 15 46 600.0 7.07 332.02
 100.00 18 26 6 5170.54 29.71 230.57 261.05 86.57 19 52 17 4570.5 28.92 221.85
 110.00 12 34 57 1077.25 .06 327.37 252.72 124.18 12 52 54 477.2 4.54 321.16
 110.00 20 3 25 4866.09 33.31 207.02 260.63 81.85 21 24 31 4266.1 31.83 198.10

DIFFERENTIAL CORRECTIONS

TDE -.1880 TRA -.8744 TC3 .4372 BAU .4016
 RDE -.1744 RRA -1.7797 RC3 2.1709 FAU .05133
 FDE -.3033 FRA 2.7593 FC3-3.2763 BSP 11523
 BDE .2564 BRA 1.9829 BC3 2.2145 FSP -1397

MID-COURSE EXECUTION ACCURACY

SGT 1517.7 SGR 3374.8 SG3 449.8
 RRT .9252 RRF -.9999 RTF -.9253
 SGB 3700.4 R23 -.0611 R13 -.9980
 SG1 3662.1 SG2 530.8 THA 66.90

ORBIT DETERMINATION ACCURACY

ST 525.3 SR 929.6 SS 730.6
 CRT .6316 CRS .9994 CST .6052
 LSA 1231.9 MSA 395.3 SSA 1.4
 EL1 998.1 EL2 379.3 ALF 66.82

LAUNCH DATE DEC 23 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 403.441

RL 147.15 LAL .00 LOL 91.24 VL 27.699 GAL 2.70 AZL 101.22 MCA 176.54 SMA 128.03 ECC .15641 INC11.2242 V1 30.277
 RP 108.74 LAP -.67 LOP 267.84 VP 37.473 GAP -2.44 AZP 78.80 TAL 165.20 TAP 341.73 PCA 108.00 APO 148.05 V2 34.848
 RC 73.792 GL -57.47 GP 76.56 ZAL 77.35 ZAP 79.49 ETS 320.70 ZAE 103.37 ETE 69.67 ZAC 86.77 ETC 136.26 CLP -38.36

PLANETOCENTRIC CONIC

C3 40.812 VHL 6.388 DLA -43.01 RAL 48.31 RAD 6568.6 VEL 12.735 PTH 2.32 VHP 9.659 DPA 71.80 RAP 311.47 ECC 1.6717
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.16 10 48 18 1744.47 21.83 31.46 292.87 128.03 11 17 22 1144.5 26.60 24.84
 123.84 18 4 59 5682.45 21.84 265.55 292.88 128.02 19 39 41 5082.4 26.62 258.92
 56.16 10 48 18 1744.47 21.83 31.46 292.87 128.03 11 17 22 1144.5 26.60 24.84
 123.84 18 4 59 5682.45 21.84 265.55 292.88 128.02 19 39 41 5082.4 26.62 258.92
 56.16 10 48 18 1744.47 21.83 31.46 292.87 128.03 11 17 22 1144.5 26.60 24.84
 123.84 18 4 59 5682.45 21.84 265.55 292.88 128.02 19 39 41 5082.4 26.62 258.92

DIFFERENTIAL CORRECTIONS

TDE -.2176 TRA-1.2809 TC3 .1145 BAU .3470
 RDE .9688 RRA-3.0444 RC3 .6256 FAU .01577
 FDE -.5099 FRA 1.7984 FC3 -.3344 BSP 13092
 BDE .9930 BRA 3.3029 BC3 .6360 FSP -627

MID-COURSE EXECUTION ACCURACY

SGT 1589.9 SGR 3916.3 SG3 198.1
 RRT .9337 RRF -.9996 RTF -.9433
 SGB 4226.7 R23 -.0210 R13 -.9997
 SG1 4193.1 SG2 531.5 THA 68.88

ORBIT DETERMINATION ACCURACY

ST 510.1 SR 1417.9 SS 671.4
 CRT .4956 CRS .9985 CST .5426
 LSA 1591.2 MSA 435.5 SSA .6
 EL1 1442.6 EL2 435.5 ALF 78.86

LAUNCH DATE DEC 23 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 409.175

RL 147.15 LAL .00 LOL 91.24 VL 27.717 GAL 2.79 AZL 164.90 MCA 179.11 SMA 128.15 ECC .15583 INC74.8998 V1 30.277
 RP 108.77 LAP -.86 LOP 271.01 VP 37.479 GAP -2.18 AZP 15.10 TAL 164.59 TAP 343.70 RCA 108.18 APO 148.12 V2 34.839
 RC 76.053 GL -49.15 GP 53.41 ZAL 87.65 ZAP 88.02 ETS 181.46 ZAE 58.04 ETE 295.17 ZAC 77.26 ETC 5.56 CLP 86.68

PLANETOCENTRIC CONIC

C31248.532 VHL 35.335 DLA -42.23 RAL 28.33 RAD 6573.1 VEL 37.011 PTH 3.54 VHP 45.656 DPA 50.54 RAP 210.36 ECC21.5477
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.25 9 33 8 2232.85 -.71 54.49 299.10 132.23 10 10 21 1632.8 4.66 48.98
 122.75 16 40 47 907.28 -.69 312.84 299.11 132.23 16 55 54 307.3 4.68 307.32
 57.25 9 33 8 2232.85 -.71 54.49 299.10 132.23 10 10 21 1632.8 4.66 48.98
 122.75 16 40 47 907.28 -.69 312.84 299.11 132.23 16 55 54 307.3 4.68 307.32
 57.25 9 33 8 2232.85 -.71 54.49 299.10 132.23 10 10 21 1632.8 4.66 48.98
 122.75 16 40 47 907.28 -.69 312.84 299.11 132.23 16 55 54 307.3 4.68 307.32

DIFFERENTIAL CORRECTIONS

TDE 6.2159 TRA-3.1331 TC3 -.1162 BAU 4.5530
 RDE -6.9088 RRA12.0557 RC3 .2468 FAU-.08149
 FDE -1.6988 FRA 2.7162 FC3 .0565 BSP 10032
 BDE 9.2935 BRA12.4562 BC3 .2728 FSP -189

MID-COURSE EXECUTION ACCURACY

SGT 1470.2 SGR 3356.6 SG3 66.3
 RRT -.8862 RRF .9996 RTF -.8984
 SGB 3664.4 R23 -.0435 R13 .9990
 SG1 3609.3 SG2 633.5 THA 111.92

ORBIT DETERMINATION ACCURACY

ST 1029.0 SR 1373.0 SS 1295.6
 CRT -.9155 CRS -.9992 CST .9311
 LSA 2120.6 MSA 354.4 SSA .6
 EL1 1682.2 EL2 337.9 ALF 126.14

LAUNCH DATE DEC 23 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 416.512

RL 147.15 LAL .00 LOL 91.24 VL 27.732 GAL 2.60 AZL 70.53 MCA 183.11 SMA 128.26 ECC .15395 INC19.4747 V1 30.277
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.482 GAP -1.51 AZP 109.45 TAL 165.49 TAP 348.60 RCA 108.51 APO 148.00 V2 34.831
 RC 78.340 GL 64.67 GP -81.24 ZAL 82.40 ZAP 83.86 ETS 67.09 ZAE 96.42 ETE 320.55 ZAC 111.19 ETC 254.52 CLP -45.36

PLANETOCENTRIC CONIC

C3 104.429 VHL 10.219 DLA 62.29 RAL 330.33 RAD 6570.0 VEL 15.026 PTH 2.71 VHP 10.587 DPA -59.08 RAP 85.17 ECC 2.7186
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.88 16 20 12 4782.18 -15.78 234.51 231.81 28.89 17 39 54 4182.2 -22.74 230.74
 148.12 2 10 55 3090.09 -15.77 94.46 231.79 28.89 3 2 25 2490.1 -22.73 90.69
 31.88 16 20 12 4782.18 -15.78 234.51 231.81 28.89 17 39 54 4182.2 -22.74 230.74
 148.12 2 10 55 3090.09 -15.77 94.46 231.79 28.89 3 2 25 2490.1 -22.73 90.69
 31.88 16 20 12 4782.18 -15.78 234.51 231.81 28.89 17 39 54 4182.2 -22.74 230.74
 148.12 2 10 55 3090.09 -15.77 94.46 231.79 28.89 3 2 25 2490.1 -22.73 90.69

DIFFERENTIAL CORRECTIONS

TDE -5.7196 TRA .3429 TC3 .0002 BAU .0802
 RDE 5.2289 RRA -.8753 RC3 -.0574 FAU .00345
 FDE 3.4820 FRA -.3819 FC3 -.0286 BSP 13982
 BDE 7.7495 BRA .9401 BC3 .0574 FSP -569

MID-COURSE EXECUTION ACCURACY

SGT 3233.4 SGR 3118.2 SG3 173.4
 RRT -.9758 RRF .9935 RTF -.9942
 SGB 4492.0 R23 -.0007 R13 .9999
 SG1 4464.7 SG2 493.9 THA 136.07

ORBIT DETERMINATION ACCURACY

ST 3209.3 SR 2948.8 SS 1790.2
 CRT -.9976 CRS -.9993 CST .9995
 LSA 4709.2 MSA 149.7 SSA .7
 EL1 4355.7 EL2 149.7 ALF 137.43

LAUNCH DATE DEC 23 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 422.811

RL 147.15 LAL .00 LOL 91.24 VL 27.744 GAL 2.60 AZL 78.72 MCA 186.22 SMA 128.34 ECC .15328 INC11.2809 V1 30.277
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.484 GAP -1.12 AZP 101.22 TAL 165.37 TAP 351.59 RCA 108.67 APO 148.01 V2 34.824
 RC 80.651 GL 58.05 GP -65.04 ZAL 77.75 ZAP 81.44 ETS 24.77 ZAE 113.75 ETE 281.72 ZAC 116.32 ETC 210.29 CLP -69.34

PLANETOCENTRIC CONIC

C3 40.826 VHL 6.390 DLA 60.12 RAL 344.48 RAD 6568.6 VEL 12.735 PTH 2.32 VHP 5.786 DPA -49.77 RAP 60.32 ECC 1.6719
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.46 17 23 1 4548.28 -28.22 224.47 236.54 34.43 18 38 50 3948.3 -34.70 219.39
 145.54 3 1 0 2878.81 -28.20 87.52 236.52 34.42 3 48 59 2278.8 -34.69 82.44
 34.46 17 23 1 4548.28 -28.22 224.47 236.54 34.43 18 38 50 3948.3 -34.70 219.39
 145.54 3 1 0 2878.81 -28.20 87.52 236.52 34.42 3 48 59 2278.8 -34.69 82.44
 34.46 17 23 1 4548.28 -28.22 224.47 236.54 34.43 18 38 50 3948.3 -34.70 219.39
 145.54 3 1 0 2878.81 -28.20 87.52 236.52 34.42 3 48 59 2278.8 -34.69 82.44

DIFFERENTIAL CORRECTIONS

TDE -.3493 TRA -.3174 TC3 -.0089 BAU .3476
 RDE 4.5877 RRA -.0050 RC3 -.6367 FAU .04102
 FDE 5.6519 FRA .0898 FC3 -.8698 BSP 13254
 BDE 4.6010 BRA .3175 BC3 .6368 FSP -1469

MID-COURSE EXECUTION ACCURACY

SGT 651.7 SGR 4193.6 SG3 448.5
 RRT -.4662 RRF .9992 RTF -.4928
 SGB 4243.9 R23 .0204 R13 .9995
 SG1 4204.8 SG2 575.0 THA 94.22

ORBIT DETERMINATION ACCURACY

ST 357.1 SR 4113.9 SS 2533.7
 CRT -.8769 CRS -.9999 CST .8818
 LSA 4841.7 MSA 171.8 SSA 1.7
 EL1 4125.8 EL2 171.1 ALF 94.36

LAUNCH DATE DEC 23 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 429.136

RL 147.15 LAL .00 LOL 91.24 VL 27.753 GAL 2.61 AZL 81.44 MCA 189.37 SMA 128.40 ECC .15281 INC 8.5566 V1 30.277
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.484 GAP -.71 AZP 98.44 TAL 165.25 TAP 354.62 RCA 108.78 APO 148.02 V2 34.816
 RC 82.981 GL 52.47 GP -53.65 ZAL 74.82 ZAP 82.22 ETS 14.42 ZAE 125.49 ETE 273.15 ZAC 118.08 ETC 198.49 CLP -76.79

PLANETOCENTRIC CONIC

C3 27.057 VML 5.202 DLA 56.76 RAL 353.25 RAD 6568.1 VEL 12.183 PTH 2.19 VHP 4.335 DPA -41.59 RAP 48.52 ECC 1.4453
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.51 18 8 33 4424.45 -32.59 215.53 238.49 40.58 19 22 17 3824.4 -38.50 209.30
 141.49 3 25 26 2795.67 -32.58 83.70 238.48 40.57 4 12 1 2195.7 -38.48 77.48
 38.51 18 8 33 4424.45 -32.59 215.53 238.49 40.58 19 22 17 3824.4 -38.50 209.30
 141.49 3 25 26 2795.67 -32.58 83.70 238.48 40.57 4 12 1 2195.7 -38.48 77.48
 38.51 18 8 33 4424.45 -32.59 215.53 238.49 40.58 19 22 17 3824.4 -38.50 209.30
 141.49 3 25 26 2795.67 -32.58 83.70 238.48 40.57 4 12 1 2195.7 -38.48 77.48

DIFFERENTIAL CORRECTIONS

TDE .3228 TRA -.2721 TC3 -.1840 BAU .3750
 RDE 3.2854 RRA .3119 RC3-1.0202 FAU .07960
 FDE 7.4579 FRA .8405 FC3-2.5469 BSP 12060
 BOE 3.3012 BRA .4139 BC3 1.0367 FSP -2475

MID-COURSE EXECUTION ACCURACY

SGT 679.8 SGR 3823.0 SG3 759.9
 RRT .4414 RRF .9992 RTF .4189
 SGB 3883.0 R23 .0375 R13 .9989
 SG1 3835.1 SG2 608.0 THA 85.40

ORBIT DETERMINATION ACCURACY

ST 391.6 SR 3623.8 SS 3083.1
 CRT .8851 CRS-1.0000 CST -.8805
 LSA 4770.5 MSA 184.6 SSA 2.4
 EL1 3640.4 EL2 181.5 ALF 84.52

LAUNCH DATE DEC 23 1968

FLIGHT TIME 160.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 435.452

RL 147.15 LAL .00 LOL 91.24 VL 27.760 GAL 2.63 AZL 82.80 MCA 192.52 SMA 128.44 ECC .15254 INC 7.1964 V1 30.277
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.483 GAP -.32 AZP 97.03 TAL 165.10 TAP 357.62 RCA 108.85 APO 148.04 V2 34.810
 RC 85.328 GL 48.37 GP -45.23 ZAL 72.82 ZAP 85.09 ETS 7.82 ZAE 133.91 ETE 265.79 ZAC 117.77 ETC 190.71 CLP -83.02

PLANETOCENTRIC CONIC

C3 21.598 VML 4.647 DLA 53.94 RAL 358.57 RAD 6567.9 VEL 11.957 PTH 2.13 VHP 3.692 DPA -35.37 RAP 40.83 ECC 1.3554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.97 18 39 28 4348.91 -34.06 208.69 239.10 45.28 19 51 57 3748.9 -39.47 201.75
 138.03 3 36 59 2760.73 -34.04 81.55 239.08 45.27 4 22 59 2160.7 -39.46 74.61
 41.97 18 39 28 4348.91 -34.06 208.69 239.10 45.28 19 51 57 3748.9 -39.47 201.75
 138.03 3 36 59 2760.73 -34.04 81.55 239.08 45.27 4 22 59 2160.7 -39.46 74.61
 41.97 18 39 28 4348.91 -34.06 208.69 239.10 45.28 19 51 57 3748.9 -39.47 201.75
 138.03 3 36 59 2760.73 -34.04 81.55 239.08 45.27 4 22 59 2160.7 -39.46 74.61

DIFFERENTIAL CORRECTIONS

TDE .6722 TRA -.1800 TC3 -.4323 BAU .3673
 RDE 2.5157 RRA .4255 RC3-1.1962 FAU .11254
 FDE 8.5956 FRA 1.6360 FC3-4.5112 BSP 10919
 BOE 2.6040 BRA .4620 BC3 1.2719 FSP -3353

MID-COURSE EXECUTION ACCURACY

SGT 995.2 SGR 3413.2 SG3 1028.2
 RRT .7894 RRF .9991 RTF .7748
 SGB 3555.3 R23 .0629 R13 .9974
 SG1 3505.2 SG2 594.9 THA 76.65

ORBIT DETERMINATION ACCURACY

ST 836.5 SR 3113.2 SS 3396.1
 CRT .9755 CRS -.9999 CST -.9731
 LSA 4678.7 MSA 187.3 SSA 2.9
 EL1 3218.8 EL2 177.8 ALF 75.27

LAUNCH DATE DEC 23 1968

FLIGHT TIME 162.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 441.753

RL 147.15 LAL .00 LOL 91.24 VL 27.764 GAL 2.67 AZL 83.62 MCA 195.68 SMA 128.47 ECC .15249 INC 6.3777 V1 30.277
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.480 GAP -.08 AZP 96.14 TAL 164.89 TAP .57 RCA 108.88 APO 148.06 V2 34.804
 RC 87.691 GL 45.29 GP -38.77 ZAL 71.31 ZAP 89.18 ETS 3.03 ZAE 139.85 ETE 257.60 ZAC 116.32 ETC 184.99 CLP -88.95

PLANETOCENTRIC CONIC

C3 18.793 VML 4.335 DLA 51.70 RAL 2.18 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 3.357 DPA -30.70 RAP 34.96 ECC 1.3093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.75 19 2 9 4297.30 -34.44 203.53 239.40 48.72 20 13 46 3697.3 -39.48 196.16
 135.25 3 43 5 2746.03 -34.43 80.39 239.39 48.71 4 28 51 2146.0 -39.47 73.03
 44.75 19 2 9 4297.30 -34.44 203.53 239.40 48.72 20 13 46 3697.3 -39.48 196.16
 135.25 3 43 5 2746.03 -34.43 80.39 239.39 48.71 4 28 51 2146.0 -39.47 73.03
 44.75 19 2 9 4297.30 -34.44 203.53 239.40 48.72 20 13 46 3697.3 -39.48 196.16
 135.25 3 43 5 2746.03 -34.43 80.39 239.39 48.71 4 28 51 2146.0 -39.47 73.03

DIFFERENTIAL CORRECTIONS

TDE .9338 TRA -.0724 TC3 -.7263 BAU .3596
 RDE 2.0059 RRA .4600 RC3-1.2335 FAU .13717
 FDE 9.1869 FRA 2.3562 FC3-6.3192 BSP 10013
 BOE 2.2126 BRA .4657 BC3 1.4314 FSP -4011

MID-COURSE EXECUTION ACCURACY

SGT 1394.1 SGR 3022.4 SG3 1230.1
 RRT .9004 RRF .9988 RTF .8897
 SGB 3328.4 R23 .0950 R13 .9945
 SG1 3281.2 SG2 558.6 THA 66.73

ORBIT DETERMINATION ACCURACY

ST 1235.1 SR 2667.6 SS 3549.2
 CRT .9891 CRS -.9999 CST -.9871
 LSA 4604.7 MSA 187.5 SSA 3.4
 EL1 2935.0 EL2 165.6 ALF 65.31

LAUNCH DATE DEC 23 1968

FLIGHT TIME 164.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 448.035

RL 147.15 LAL .00 LOL 91.24 VL 27.765 GAL 2.71 AZL 84.17 MCA 198.84 SMA 128.48 ECC .15264 INC 5.8284 V1 30.277
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.477 GAP .46 AZP 95.52 TAL 164.64 TAP 3.49 RCA 108.87 APO 148.09 V2 34.799
 RC 90.065 GL 42.86 GP -33.64 ZAL 70.07 ZAP 93.90 ETS 359.44 ZAE 143.78 ETE 248.42 ZAC 114.29 ETC 180.70 CLP -94.69

PLANETOCENTRIC CONIC

C3 17.140 VML 4.140 DLA 49.93 RAL 4.88 RAD 6567.7 VEL 11.770 PTH 2.08 VHP 3.176 DPA -27.13 RAP 30.12 ECC 1.2821
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.99 19 20 0 4259.41 -34.39 199.55 239.74 51.27 20 31 0 3659.4 -39.14 191.93
 133.01 3 46 49 2741.02 -34.38 79.82 239.73 51.26 4 32 30 2141.0 -39.13 72.20
 46.99 19 20 0 4259.41 -34.39 199.55 239.74 51.27 20 31 0 3659.4 -39.14 191.93
 133.01 3 46 49 2741.02 -34.38 79.82 239.73 51.26 4 32 30 2141.0 -39.13 72.20
 46.99 19 20 0 4259.41 -34.39 199.55 239.74 51.27 20 31 0 3659.4 -39.14 191.93
 133.01 3 46 49 2741.02 -34.38 79.82 239.73 51.26 4 32 30 2141.0 -39.13 72.20

DIFFERENTIAL CORRECTIONS

TDE 1.1535 TRA .0433 TC3-1.0451 BAU .3641
 RDE 1.6365 RRA .4540 RC3-1.1968 FAU .15472
 FDE 9.3474 FRA 2.9292 FC3-7.8146 BSP 9576
 BOE 2.0021 BRA .4561 BC3 1.5889 FSP -4499

MID-COURSE EXECUTION ACCURACY

SGT 1818.2 SGR 2657.8 SG3 1363.0
 RRT .9444 RRF .9983 RTF .9356
 SGB 3220.2 R23 .1261 R13 .9905
 SG1 3181.2 SG2 499.3 THA 56.19

ORBIT DETERMINATION ACCURACY

ST 1596.8 SR 2283.8 SS 3587.3
 CRT .9938 CRS -.9999 CST -.9919
 LSA 4538.7 MSA 185.9 SSA 4.0
 EL1 2782.9 EL2 145.3 ALF 55.10

LAUNCH DATE DEC 23 1968

FLIGHT TIME 166.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 454.298

RL 147.15 LAL .00 LOL 91.24 VL 27.765 GAL 2.77 AZL 84.57 MCA 202.00 SMA 128.48 ECC .15298 INC 5.4320 V1 30.277
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.472 GAP .84 AZP 95.04 TAL 164.35 TAP 6.35 RCA 108.82 APO 148.13 V2 34.795
 RC 92.449 GL 40.88 GP -29.45 ZAL 68.98 ZAP 98.90 ETS 356.73 ZAE 145.99 ETE 238.71 ZAC 112.06 ETC 177.46 CLP-100.23

PLANETOCENTRIC CONIC

C3 16.090 VHL 4.011 CLA 48.49 RAL 7.09 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 3.084 DPA -24.33 RAP 26.00 ECC 1.2648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.83 19 34 55 4230.25 -34.15 196.41 240.22 53.21 20 45 25 3630.2 -38.67 188.62
 131.17 3 49 32 2741.19 -34.14 79.61 240.21 53.20 4 35 13 2141.2 -38.66 71.83
 48.83 19 34 55 4230.25 -34.15 196.41 240.22 53.21 20 45 25 3630.2 -38.67 188.62
 131.17 3 49 32 2741.19 -34.14 79.61 240.21 53.20 4 35 13 2141.2 -38.66 71.83
 48.83 19 34 55 4230.25 -34.15 196.41 240.22 53.21 20 45 25 3630.2 -38.67 188.62
 131.17 3 49 32 2741.19 -34.14 79.61 240.21 53.20 4 35 13 2141.2 -38.66 71.83

DIFFERENTIAL CORRECTIONS

TOE 1.3465 TRA .1646 TC3-1.3734 BAU .3797
 RDE 1.3584 RRA .4321 RC3-1.1087 FAU .16479
 FDE 9.2156 FRA 3.3754 FC3-8.8666 BSP 9509
 BDE 1.9127 BRA .4624 BC3 1.7651 FSP -4785

MID-COURSE EXECUTION ACCURACY

SGT 2244.8 SGR 2328.8 SG3 1437.5
 RRT .9645 RRF .9974 RTF .9568
 SGB 3234.6 R23 .1472 R13 .9866
 SG1 3205.8 SG2 430.4 TMA 46.09

ORBIT DETERMINATION ACCURACY

ST 1926.6 SR 1960.6 SS 3555.4
 CRT .9961 CRS -.9998 CST -.9941
 LSA 4490.3 MSA 184.6 SSA 4.6
 EL1 2746.1 EL2 120.6 ALF 45.50

LAUNCH DATE DEC 23 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 460.541

RL 147.15 LAL .00 LOL 91.24 VL 27.762 GAL 2.84 AZL 84.87 MCA 205.16 SMA 128.46 ECC .15352 INC 5.1311 V1 30.277
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.467 GAP 1.22 AZP 94.65 TAL 164.00 TAP 9.16 RCA 108.74 APO 148.18 V2 34.791
 RC 94.840 GL 39.20 GP -25.95 ZAL 67.95 ZAP 103.93 ETS 354.67 ZAE 146.80 ETE 229.22 ZAC 109.85 ETC 175.01 CLP-105.53

PLANETOCENTRIC CONIC

C3 15.398 VHL 3.924 CLA 47.30 RAL 9.02 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 3.051 DPA -22.06 RAP 22.45 ECC 1.2534
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.38 19 47 55 4207.15 -33.82 193.88 240.85 54.71 20 58 2 3607.2 -38.17 185.99
 129.62 3 51 54 2744.39 -33.81 79.64 240.84 54.70 4 37 38 2144.4 -38.16 71.75
 50.38 19 47 55 4207.15 -33.82 193.88 240.85 54.71 20 58 2 3607.2 -38.17 185.99
 129.62 3 51 54 2744.39 -33.81 79.64 240.84 54.70 4 37 38 2144.4 -38.16 71.75
 50.38 19 47 55 4207.15 -33.82 193.88 240.85 54.71 20 58 2 3607.2 -38.17 185.99
 129.62 3 51 54 2744.39 -33.81 79.64 240.84 54.70 4 37 38 2144.4 -38.16 71.75

DIFFERENTIAL CORRECTIONS

TOE 1.5166 TRA .2884 TC3-1.6988 BAU .4054
 RDE 1.1415 RRA .4007 RC3 -.9958 FAU .16901
 FDE 8.8727 FRA 3.6879 FC3-9.5025 BSP 9811
 BDE 1.8982 BRA .4937 BC3 1.9692 FSP -4913

MID-COURSE EXECUTION ACCURACY

SGT 2658.4 SGR 2033.0 SG3 1462.4
 RRT .9749 RRF .9959 RTF .9681
 SGB 3346.6 R23 .1535 R13 .9841
 SG1 3327.0 SG2 362.0 TMA 37.22

ORBIT DETERMINATION ACCURACY

ST 2222.6 SR 1686.8 SS 3473.1
 CRT .9975 CRS -.9996 CST -.9952
 LSA 4451.3 MSA 183.2 SSA 5.3
 EL1 2788.7 EL2 94.4 ALF 37.18

LAUNCH DATE DEC 23 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 466.765

RL 147.15 LAL .00 LOL 91.24 VL 27.757 GAL 2.93 AZL 85.11 MCA 208.32 SMA 128.43 ECC .15425 INC 4.8936 V1 30.277
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.460 GAP 1.59 AZP 94.31 TAL 163.61 TAP 11.93 RCA 108.62 APO 148.24 V2 34.788
 RC 97.236 GL 37.72 GP -23.00 ZAL 66.96 ZAP 108.85 ETS 353.12 ZAE 146.55 ETE 220.60 ZAC 107.78 ETC 173.16 CLP-110.55

PLANETOCENTRIC CONIC

C3 14.941 VHL 3.865 CLA 46.29 RAL 10.78 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 3.062 DPA -20.16 RAP 19.42 ECC 1.2459
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.71 19 59 41 4188.46 -33.45 191.79 241.63 55.91 21 9 29 3588.5 -37.66 183.84
 128.29 3 54 11 2749.58 -33.44 79.83 241.62 55.90 4 40 1 2149.6 -37.65 71.87
 51.71 19 59 41 4188.46 -33.45 191.79 241.63 55.91 21 9 29 3588.5 -37.66 183.84
 128.29 3 54 11 2749.58 -33.44 79.83 241.62 55.90 4 40 1 2149.6 -37.65 71.87
 51.71 19 59 41 4188.46 -33.45 191.79 241.63 55.91 21 9 29 3588.5 -37.66 183.84
 128.29 3 54 11 2749.58 -33.44 79.83 241.62 55.90 4 40 1 2149.6 -37.65 71.87

DIFFERENTIAL CORRECTIONS

TOE 1.6663 TRA .4137 TC3-2.0109 BAU .4379
 RDE .9695 RRA .3654 RC3 -.8726 FAU .16859
 FDE 8.3929 FRA 3.8853 FC3-9.7687 BSP 10396
 BDE 1.9278 BRA .5519 BC3 2.1921 FSP -4919

MID-COURSE EXECUTION ACCURACY

SGT 3050.4 SGR 1770.4 SG3 1449.0
 RRT .9802 RRF .9937 RTF .9747
 SGB 3527.0 R23 .1447 R13 .9831
 SG1 3513.8 SG2 304.3 TMA 29.88

ORBIT DETERMINATION ACCURACY

ST 2484.7 SR 1456.3 SS 3357.2
 CRT .9985 CRS -.9993 CST -.9959
 LSA 4419.5 MSA 181.7 SSA 6.0
 EL1 2879.2 EL2 69.1 ALF 30.36

LAUNCH DATE DEC 23 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 472.970

RL 147.15 LAL .00 LOL 91.24 VL 27.751 GAL 3.02 AZL 85.30 MCA 211.48 SMA 128.38 ECC .15516 INC 4.7002 V1 30.277
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.454 GAP 1.95 AZP 94.01 TAL 163.16 TAP 14.64 RCA 108.46 APO 148.30 V2 34.786
 RC 99.636 GL 36.39 GP -20.48 ZAL 65.96 ZAP 113.58 ETS 351.95 ZAE 145.57 ETE 213.24 ZAC 105.96 ETC 171.77 CLP-115.27

PLANETOCENTRIC CONIC

C3 14.652 VHL 3.828 CLA 45.42 RAL 12.45 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 3.105 DPA -18.53 RAP 16.87 ECC 1.2411
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.88 20 10 38 4173.13 -33.06 190.04 242.56 56.88 21 20 11 3573.1 -37.15 182.05
 127.12 3 56 35 2756.20 -33.05 80.13 242.56 56.87 4 42 31 2156.2 -37.14 72.14
 52.88 20 10 38 4173.13 -33.06 190.04 242.56 56.88 21 20 11 3573.1 -37.15 182.05
 127.12 3 56 35 2756.20 -33.05 80.13 242.56 56.87 4 42 31 2156.2 -37.14 72.14
 52.88 20 10 38 4173.13 -33.06 190.04 242.56 56.88 21 20 11 3573.1 -37.15 182.05
 127.12 3 56 35 2756.20 -33.05 80.13 242.56 56.87 4 42 31 2156.2 -37.14 72.14

DIFFERENTIAL CORRECTIONS

TOE 1.7978 TRA .5402 TC3-2.3008 BAU .4739
 RDE .8324 RRA .3297 RC3 -.7472 FAU .16443
 FDE 7.8377 FRA 3.9931 FC3-9.7152 BSP 11146
 BDE 1.9811 BRA .6329 BC3 2.4191 FSP -4819

MID-COURSE EXECUTION ACCURACY

SGT 3416.2 SGR 1540.8 SG3 1407.7
 RRT .9823 RRF .9903 RTF .9788
 SGB 3747.6 R23 .1229 R13 .9831
 SG1 3738.3 SG2 264.0 TMA 24.02

ORBIT DETERMINATION ACCURACY

ST 2713.5 SR 1263.8 SS 3221.6
 CRT .9992 CRS -.9989 CST -.9962
 LSA 4393.9 MSA 180.3 SSA 6.7
 EL1 2993.0 EL2 46.3 ALF 24.96

LAUNCH DATE DEC 23 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 479.155

RL 147.15 LAL .00 LOL 91.24 VL 27.743 GAL 3.13 AZL 85.46 MCA 214.64 SMA 128.33 ECC .15626 INC 4.5389 V1 30.277
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.446 GAP 2.32 AZP 93.74 TAL 162.67 TAP 17.32 RCA 108.28 APO 148.38 V2 34.784
 RC 102.038 GL 35.16 GP -18.31 ZAL 64.95 ZAP 118.04 ETS 351.08 ZAE 144.14 ETE 207.19 ZAC 104.42 ETC 170.74 CLP-119.68

PLANETOCENTRIC CONIC

C3 14.491 VHL 3.807 CLA 44.65 RAL 14.08 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 3.174 DPA -17.09 RAP 14.77 ECC 1.2385
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.92 20 21 2 4160.46 -32.65 188.56 243.64 57.67 21 30 23 3560.5 -36.65 180.55
 126.08 3 59 9 2763.95 -32.64 80.54 243.63 57.66 4 45 13 2164.0 -36.64 72.53
 53.92 20 21 2 4160.46 -32.65 188.56 243.64 57.67 21 30 23 3560.5 -36.65 180.55
 126.08 3 59 9 2763.95 -32.64 80.54 243.63 57.66 4 45 13 2164.0 -36.64 72.53
 53.92 20 21 2 4160.46 -32.65 188.56 243.64 57.67 21 30 23 3560.5 -36.65 180.55
 126.08 3 59 9 2763.95 -32.64 80.54 243.63 57.66 4 45 13 2164.0 -36.64 72.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9145 TRA .6695 TC3-2.5586 BAU .5102 SGT 3755.7 SGR 1343.8 SG3 1348.6 ST 2913.4 SR 1105.7 SS 3079.8
 RDE .7239 RRA .2963 RC3 -.6239 FAU .15710 RRT .9814 RRF .9851 RTF .9813 CRT .9997 CRS -.9982 CST -.9965
 FDE 7.2616 FRA 4.0421 FC3-9.3858 BSP 11940 SGB 3988.8 R23 .0937 R13 .9836 LSA 4377.6 HSA 179.3 SSA 7.3
 BDE 2.0468 BRA .7322 BC3 2.6336 FSP -4625 SG1 3981.4 SGT 243.3 THA 19.42 EL1 3116.1 EL2 26.4 ALF 20.78

LAUNCH DATE DEC 23 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 485.319

RL 147.15 LAL .00 LOL 91.24 VL 27.734 GAL 3.25 AZL 85.60 MCA 217.80 SMA 128.26 ECC .15755 INC 4.4014 V1 30.277
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.439 GAP 2.68 AZP 93.48 TAL 162.14 TAP 19.94 RCA 108.06 APO 148.47 V2 34.783
 RC 104.441 GL 34.01 GP -16.45 ZAL 63.92 ZAP 122.23 ETS 350.44 ZAE 142.49 ETE 202.32 ZAC 103.19 ETC 169.98 CLP-123.79

PLANETOCENTRIC CONIC

C3 14.433 VHL 3.799 CLA 43.95 RAL 15.69 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 3.265 DPA -15.79 RAP 13.08 ECC 1.2375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.86 20 31 9 4149.86 -32.23 187.29 244.86 58.33 21 40 19 3549.9 -36.16 179.27
 125.14 4 1 53 2772.78 -32.22 81.03 244.85 58.32 4 48 6 2172.8 -36.15 73.01
 54.86 20 31 9 4149.86 -32.23 187.29 244.86 58.33 21 40 19 3549.9 -36.16 179.27
 125.14 4 1 53 2772.78 -32.22 81.03 244.85 58.32 4 48 6 2172.8 -36.15 73.01
 54.86 20 31 9 4149.86 -32.23 187.29 244.86 58.33 21 40 19 3549.9 -36.16 179.27
 125.14 4 1 53 2772.78 -32.22 81.03 244.85 58.32 4 48 6 2172.8 -36.15 73.01

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.0148 TRA .7985 TC3-2.7888 BAU .5471 SGT 4064.6 SGR 1174.7 SG3 1276.8 ST 3080.5 SR 974.6 SS 2928.7
 RDE .6367 RRA .2641 RC3 -.5127 FAU .14866 RRT .9778 RRF .9777 RTF .9831 CRT .9999 CRS -.9971 CST -.9966
 FDE 6.6742 FRA 4.0269 FC3-8.9169 BSP 12800 SGB 4231.0 R23 .0625 R13 .9842 LSA 4357.1 HSA 177.9 SSA 8.0
 BDE 2.1131 BRA .8410 BC3 2.8355 FSP -4409 SG1 4224.3 SGT 236.8 THA 15.83 EL1 3230.9 EL2 10.6 ALF 17.56

LAUNCH DATE DEC 23 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 491.464

RL 147.15 LAL .00 LOL 91.24 VL 27.723 GAL 3.39 AZL 85.72 MCA 220.96 SMA 128.19 ECC .15901 INC 4.2822 V1 30.277
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.430 GAP 3.04 AZP 93.24 TAL 161.56 TAP 22.53 RCA 107.81 APO 148.57 V2 34.783
 RC 106.844 GL 32.91 GP -14.83 ZAL 62.85 ZAP 126.13 ETS 349.96 ZAE 140.76 ETE 198.43 ZAC 102.26 ETC 169.43 CLP-127.59

PLANETOCENTRIC CONIC

C3 14.464 VHL 3.803 CLA 43.32 RAL 17.30 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 3.374 DPA -14.60 RAP 11.79 ECC 1.2380
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.74 20 41 3 4141.06 -31.80 186.19 246.20 58.88 21 50 4 3541.1 -35.66 178.17
 124.26 4 4 49 2782.53 -31.79 81.59 246.19 58.87 4 51 12 2182.5 -35.65 73.58
 55.74 20 41 3 4141.06 -31.80 186.19 246.20 58.88 21 50 4 3541.1 -35.66 178.17
 124.26 4 4 49 2782.53 -31.79 81.59 246.19 58.87 4 51 12 2182.5 -35.65 73.58
 55.74 20 41 3 4141.06 -31.80 186.19 246.20 58.88 21 50 4 3541.1 -35.66 178.17
 124.26 4 4 49 2782.53 -31.79 81.59 246.19 58.87 4 51 12 2182.5 -35.65 73.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.1021 TRA .9291 TC3-2.9858 BAU .5829 SGT 4346.0 SGR 1032.6 SG3 1199.2 ST 3219.7 SR 867.8 SS 2777.8
 RDE .5678 RRA .2346 RC3 -.4129 FAU .13932 RRT .9708 RRF .9671 RTF .9844 CRT .9999 CRS -.9956 CST -.9966
 FDE 6.1074 FRA 3.9756 FC3-8.3386 BSP 13651 SGB 4467.0 R23 .0356 R13 .9849 LSA 4336.4 HSA 176.7 SSA 8.7
 BDE 2.1774 BRA .9583 BC3 3.0142 FSP -4167 SG1 4460.5 SGT 241.4 THA 13.03 EL1 3334.6 EL2 12.9 ALF 15.08

LAUNCH DATE DEC 23 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 497.589

RL 147.15 LAL .00 LOL 91.24 VL 27.711 GAL 3.54 AZL 85.82 MCA 224.12 SMA 128.11 ECC .16067 INC 4.1772 V1 30.277
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.422 GAP 3.40 AZP 93.00 TAL 160.94 TAP 25.07 RCA 107.52 APO 148.69 V2 34.784
 RC 109.246 GL 31.85 GP -13.44 ZAL 61.75 ZAP 129.76 ETS 349.62 ZAE 139.04 ETE 195.33 ZAC 101.63 ETC 169.03 CLP-131.11

PLANETOCENTRIC CONIC

C3 14.575 VHL 3.818 CLA 42.72 RAL 18.92 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 3.498 DPA -13.49 RAP 10.85 ECC 1.2399
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.56 20 50 52 4133.74 -31.35 185.22 247.66 59.34 21 59 46 3533.7 -35.16 177.22
 123.44 4 7 56 2793.25 -31.34 82.23 247.65 59.33 4 54 29 2193.3 -35.15 74.23
 56.56 20 50 52 4133.74 -31.35 185.22 247.66 59.34 21 59 46 3533.7 -35.16 177.22
 123.44 4 7 56 2793.25 -31.34 82.23 247.65 59.33 4 54 29 2193.3 -35.15 74.23
 56.56 20 50 52 4133.74 -31.35 185.22 247.66 59.34 21 59 46 3533.7 -35.16 177.22
 123.44 4 7 56 2793.25 -31.34 82.23 247.65 59.33 4 54 29 2193.3 -35.15 74.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.1781 TRA 1.0629 TC3-3.1469 BAU .6164 SGT 4601.5 SGR 914.8 SG3 1119.8 ST 3333.9 SR 781.5 SS 2629.9
 RDE .5137 RRA .2083 RC3 -.3245 FAU .12941 RRT .9596 RRF .9527 RTF .9852 CRT .9994 CRS -.9934 CST -.9967
 FDE 5.5734 FRA 3.9030 FC3-7.6867 BSP 14460 SGB 4691.6 R23 .0157 R13 .9854 LSA 4314.1 HSA 175.9 SSA 9.3
 BDE 2.2379 BRA 1.0831 BC3 3.1636 FSP -3911 SG1 4684.8 SGT 232.7 THA 10.83 EL1 3424.2 EL2 26.4 ALF 13.19

LAUNCH DATE DEC 23 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 503.694

RL 147.15 LAL .00 LOL 91.24 VL 27.697 GAL 3.70 AZL 85.92 MCA 227.28 SMA 128.02 ECC .16251 INC 4.0835 V1 30.277
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.413 GAP 3.76 AZP 92.77 TAL 160.28 TAP 27.57 RCA 107.21 APO 148.82 V2 34.785
 RC 111.645 GL 30.82 GP -12.23 ZAL 60.61 ZAP 133.11 ETS 349.37 ZAE 137.40 ETE 192.85 ZAC 101.28 ETC 168.76 CLP-134.37

PLANETOCENTRIC CONIC

C3 14.761 VHL 3.842 DLA 42.16 RAL 20.56 RAD 6567.6 VEL 11.668 PTH 2.05 VHP 3.635 DPA -12.43 RAP 10.23 ECC 1.2429
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.35 21 0 40 4127.66 -30.88 184.36 249.24 59.73 22 9 28 3527.7 -34.65 176.38
 122.65 4 11 12 2804.96 -30.87 82.94 249.23 59.72 4 57 57 2205.0 -34.64 74.96
 57.35 21 0 40 4127.66 -30.88 184.36 249.24 59.73 22 9 28 3527.7 -34.65 176.38
 122.65 4 11 12 2804.96 -30.87 82.94 249.23 59.72 4 57 57 2205.0 -34.64 74.96
 57.35 21 0 40 4127.66 -30.88 184.36 249.24 59.73 22 9 28 3527.7 -34.65 176.38
 122.65 4 11 12 2804.96 -30.87 82.94 249.23 59.72 4 57 57 2205.0 -34.64 74.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2465 TRA 1.2017 TC3-3.2703 BAU .6472 SGT 4835.7 SGR 819.3 SG3 1042.4 ST 3428.6 SR 713.2 SS 2490.9
 RDE .4723 RRA .1855 RC3 -.2472 FAU .11925 RRT .9437 RRF .9340 RTF .9857 CRT .9984 CRS -.9905 CST -.9966
 FDE 5.0865 FRA 3.8228 FC3-6.9938 BSP 15171 SGB 4904.6 R23 .0027 R13 .9858 LSA 4293.9 MSA 175.5 SSA 10.0
 BOE 2.2956 BRA 1.2160 BC3 3.2796 FSP -3637 SGI 4897.3 SG2 267.7 THA 9.11 EL1 3501.8 EL2 40.0 ALF 11.73

LAUNCH DATE DEC 23 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 509.777

RL 147.15 LAL .00 LOL 91.24 VL 27.683 GAL 3.88 AZL 86.00 MCA 230.44 SMA 127.92 ECC .16455 INC 3.9990 V1 30.277
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.405 GAP 4.12 AZP 92.55 TAL 159.59 TAP 30.03 RCA 106.87 APO 148.97 V2 34.787
 RC 114.042 GL 29.80 GP -11.17 ZAL 59.43 ZAP 136.23 ETS 349.18 ZAE 135.85 ETE 190.86 ZAC 101.19 ETC 168.58 CLP-137.39

PLANETOCENTRIC CONIC

C3 15.020 VHL 3.876 DLA 41.63 RAL 22.22 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 3.784 DPA -11.42 RAP 9.90 ECC 1.2472
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.11 21 10 32 4122.66 -30.40 183.60 250.93 60.07 22 19 14 3522.7 -34.12 175.64
 121.89 4 14 35 2817.71 -30.38 83.73 250.92 60.05 5 1 33 2217.7 -34.11 75.77
 58.11 21 10 32 4122.66 -30.40 183.60 250.93 60.07 22 19 14 3522.7 -34.12 175.64
 121.89 4 14 35 2817.71 -30.38 83.73 250.92 60.05 5 1 33 2217.7 -34.11 75.77
 58.11 21 10 32 4122.66 -30.40 183.60 250.93 60.07 22 19 14 3522.7 -34.12 175.64
 121.89 4 14 35 2817.71 -30.38 83.73 250.92 60.05 5 1 33 2217.7 -34.11 75.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3036 TRA 1.3423 TC3-3.3663 BAU .6769 SGT 5045.2 SGR 741.7 SG3 967.0 ST 3498.4 SR 658.1 SS 2353.4
 RDE .4402 RRA .1649 RC3 -.1831 FAU .10975 RRT .9227 RRF .9103 RTF .9861 CRT .9966 CRS -.9866 CST -.9966
 FDE 4.6318 FRA 3.7265 FC3-6.3261 BSP 15894 SGB 5099.5 R23 -.0063 R13 .9861 LSA 4263.7 MSA 175.3 SSA 10.6
 BOE 2.3453 BRA 1.3524 BC3 3.3713 FSP -3391 SGI 5091.6 SG2 283.4 THA 7.75 EL1 3559.4 EL2 53.0 ALF 10.62

LAUNCH DATE DEC 23 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 515.840

RL 147.15 LAL .00 LOL 91.24 VL 27.667 GAL 4.08 AZL 86.08 MCA 233.60 SMA 127.81 ECC .16680 INC 3.9218 V1 30.277
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.396 GAP 4.49 AZP 92.33 TAL 158.85 TAP 32.46 RCA 106.49 APO 149.13 V2 34.790
 RC 116.435 GL 28.80 GP -10.25 ZAL 58.22 ZAP 139.11 ETS 349.04 ZAE 134.43 ETE 189.24 ZAC 101.33 ETC 168.47 CLP-140.20

PLANETOCENTRIC CONIC

C3 15.350 VHL 3.918 DLA 41.11 RAL 23.90 RAD 6567.6 VEL 11.693 PTH 2.06 VHP 3.944 DPA -10.43 RAP 9.83 ECC 1.2526
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.86 21 20 28 4118.59 -29.89 182.91 252.71 60.35 22 29 6 3518.6 -33.58 174.98
 121.14 4 18 2 2831.57 -29.88 84.59 252.70 60.34 5 5 14 2231.6 -33.57 76.66
 58.86 21 20 28 4118.59 -29.89 182.91 252.71 60.35 22 29 6 3518.6 -33.58 174.98
 121.14 4 18 2 2831.57 -29.88 84.59 252.70 60.34 5 5 14 2231.6 -33.57 76.66
 58.86 21 20 28 4118.59 -29.89 182.91 252.71 60.35 22 29 6 3518.6 -33.58 174.98
 121.14 4 18 2 2831.57 -29.88 84.59 252.70 60.34 5 5 14 2231.6 -33.57 76.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3532 TRA 1.4882 TC3-3.4313 BAU .7047 SGT 5235.8 SGR 680.3 SG3 895.8 ST 3549.6 SR 615.0 SS 2223.1
 RDE .4164 RRA .1472 RC3 -.1295 FAU .10067 RRT .8966 RRF .8821 RTF .9863 CRT .9941 CRS -.9819 CST -.9965
 FDE 4.2195 FRA 3.6297 FC3-5.6776 BSP 16565 SGB 5279.8 R23 -.0117 R13 .9863 LSA 4229.5 MSA 175.7 SSA 11.1
 BOE 2.3898 BRA 1.4954 BC3 3.4337 FSP -3154 SGI 5271.3 SG2 299.2 THA 6.67 EL1 3601.9 EL2 65.5 ALF 9.78

LAUNCH DATE DEC 23 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 521.880

RL 147.15 LAL .00 LOL 91.24 VL 27.651 GAL 4.29 AZL 86.15 MCA 236.77 SMA 127.70 ECC .16925 INC 3.8506 V1 30.277
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.387 GAP 4.85 AZP 92.11 TAL 158.08 TAP 34.85 RCA 106.09 APO 149.31 V2 34.794
 RC 118.823 GL 27.81 GP -9.44 ZAL 56.98 ZAP 141.79 ETS 348.93 ZAE 133.12 ETE 187.92 ZAC 101.69 ETC 168.41 CLP-142.80

PLANETOCENTRIC CONIC

C3 15.756 VHL 3.969 DLA 40.59 RAL 25.59 RAD 6567.6 VEL 11.711 PTH 2.06 VHP 4.114 DPA -9.47 RAP 9.99 ECC 1.2593
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.60 21 30 31 4115.32 -29.35 182.28 254.59 60.60 22 39 6 3515.3 -33.02 174.39
 120.40 4 21 31 2846.60 -29.34 85.53 254.58 60.58 5 8 58 2246.6 -33.01 77.63
 59.60 21 30 31 4115.32 -29.35 182.28 254.59 60.60 22 39 6 3515.3 -33.02 174.39
 120.40 4 21 31 2846.60 -29.34 85.53 254.58 60.58 5 8 58 2246.6 -33.01 77.63
 59.60 21 30 31 4115.32 -29.35 182.28 254.59 60.60 22 39 6 3515.3 -33.02 174.39
 120.40 4 21 31 2846.60 -29.34 85.53 254.58 60.58 5 8 58 2246.6 -33.01 77.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.3964 TRA 1.6401 TC3-3.4653 BAU .7302 SGT 5408.7 SGR 632.5 SG3 829.1 ST 3584.3 SR 581.5 SS 2099.8
 RDE .3995 RRA .1321 RC3 -.0855 FAU .09206 RRT .8663 RRF .8501 RTF .9864 CRT .9908 CRS -.9761 CST -.9965
 FDE 3.8465 FRA 3.5343 FC3-5.0585 BSP 17176 SGB 5445.6 R23 -.0146 R13 .9864 LSA 4190.8 MSA 176.6 SSA 11.6
 BOE 2.4295 BRA 1.6454 BC3 3.4664 FSP -2929 SGI 5436.5 SG2 314.3 THA 5.80 EL1 3630.3 EL2 77.6 ALF 9.14

LAUNCH DATE DEC 23 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 527.898

RL 147.15 LAL .00 LOL 91.24 VL 27.634 GAL 4.51 AZL 86.22 MCA 239.93 SMA 127.58 ECC .17192 INC 3.7843 V1 30.277
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.378 GAP 5.23 AZP 91.90 TAL 157.28 TAP 37.21 RCA 105.65 APO 149.52 V2 34.798
 RC 121.206 GL 26.82 GP -8.73 ZAL 55.71 ZAP 144.29 ETS 348.82 ZAE 131.92 ETE 186.84 ZAC 102.24 ETC 168.39 CLP-145.23

PLANETOCENTRIC CONIC

C3 16.239 VHL 4.030 OLA 40.09 RAL 27.30 RAD 6567.7 VEL 11.731 PTH 2.07 VHP 4.292 DPA -8.52 RAP 10.36 ECC 1.2672
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.35 21 40 42 4112.75 -28.80 181.70 256.55 60.81 22 49 15 3512.8 -32.44 173.85
 119.65 4 24 59 2862.89 -28.78 86.56 256.55 60.80 5 12 42 2262.9 -32.43 78.70
 60.35 21 40 42 4112.75 -28.80 181.70 256.55 60.81 22 49 15 3512.8 -32.44 173.85
 119.65 4 24 59 2862.89 -28.78 86.56 256.55 60.80 5 12 42 2262.9 -32.43 78.70
 60.35 21 40 42 4112.75 -28.80 181.70 256.55 60.81 22 49 15 3512.8 -32.44 173.85
 119.65 4 24 59 2862.89 -28.78 86.56 256.55 60.80 5 12 42 2262.9 -32.43 78.70

DIFFERENTIAL CORRECTIONS

TDE 2.4336 TRA 1.7982 TC3-3.4725 BAU .7540
 RDE .3881 RRA .1193 RC3 -.0501 FAU .08407
 FDE 3.5100 FRA 3.4416 FC3-4.4821 BSP 17748
 BDE 2.4644 BRA 1.8021 BC3 3.4729 FSP -2720

MID-COURSE EXECUTION ACCURACY

SGT 5565.4 SGR 596.1 SG3 767.3
 RRT .8330 RRF .8157 RTF .9864
 SGB 5597.2 R23 -.0160 R13 .9864
 SG1 5587.5 SG2 328.5 THA 5.12

ORBIT DETERMINATION ACCURACY

ST 3603.5 SR 555.8 SS 1983.4
 CRT .9867 CRS -.9695 CST -.9964
 LSA 4146.8 MSA 178.1 SSA 12.1
 EL1 3645.0 EL2 89.4 ALF 8.66

LAUNCH DATE DEC 23 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 533.892

RL 147.15 LAL .00 LOL 91.24 VL 27.616 GAL 4.75 AZL 86.28 MCA 243.09 SMA 127.46 ECC .17482 INC 3.7222 V1 30.277
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.369 GAP 5.60 AZP 91.69 TAL 156.45 TAP 39.55 RCA 105.18 APO 149.74 V2 34.803
 RC 123.581 GL 25.84 GP -8.11 ZAL 54.42 ZAP 146.62 ETS 348.72 ZAE 130.84 ETE 185.95 ZAC 102.96 ETC 168.38 CLP-147.51

PLANETOCENTRIC CONIC

C3 16.804 VHL 4.099 OLA 39.58 RAL 29.03 RAD 6567.7 VEL 11.755 PTH 2.07 VHP 4.480 DPA -7.59 RAP 10.90 ECC 1.2766
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.10 21 51 2 4110.80 -28.21 181.17 258.60 60.99 22 59 33 3510.8 -31.84 173.35
 118.90 4 28 24 2880.51 -28.19 87.67 258.59 60.98 5 16 24 2280.5 -31.83 79.86
 61.10 21 51 2 4110.80 -28.21 181.17 258.60 60.99 22 59 33 3510.8 -31.84 173.35
 118.90 4 28 24 2880.51 -28.19 87.67 258.59 60.98 5 16 24 2280.5 -31.83 79.86
 61.10 21 51 2 4110.80 -28.21 181.17 258.60 60.99 22 59 33 3510.8 -31.84 173.35
 118.90 4 28 24 2880.51 -28.19 87.67 258.59 60.98 5 16 24 2280.5 -31.83 79.86

DIFFERENTIAL CORRECTIONS

TDE 2.4686 TRA 1.9668 TC3-3.4468 BAU .7744
 RDE .3817 RRA .1091 RC3 -.0214 FAU .07635
 FDE 3.2118 FRA 3.3588 FC3-3.9336 BSP 18206
 BDE 2.4979 BRA 1.9699 BC3 3.4469 FSP -2514

MID-COURSE EXECUTION ACCURACY

SGT 5710.9 SGR 569.3 SG3 710.7
 RRT .7985 RRF .7809 RTF .9863
 SGB 5739.2 R23 -.0158 R13 .9862
 SG1 5729.0 SG2 341.6 THA 4.57

ORBIT DETERMINATION ACCURACY

ST 3613.5 SR 536.8 SS 1876.6
 CRT .9818 CRS -.9620 CST -.9963
 LSA 4103.0 MSA 180.3 SSA 12.5
 EL1 3651.7 EL2 101.0 ALF 8.30

LAUNCH DATE DEC 23 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 539.861

RL 147.15 LAL .00 LOL 91.24 VL 27.597 GAL 5.02 AZL 86.34 MCA 246.26 SMA 127.33 ECC .17796 INC 3.6635 V1 30.277
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.361 GAP 5.98 AZP 91.48 TAL 155.59 TAP 41.85 RCA 104.67 APO 149.99 V2 34.808
 RC 125.948 GL 24.86 GP -7.55 ZAL 53.10 ZAP 148.80 ETS 348.61 ZAE 129.85 ETE 185.21 ZAC 103.84 ETC 168.40 CLP-149.64

PLANETOCENTRIC CONIC

C3 17.458 VHL 4.178 OLA 39.08 RAL 30.76 RAD 6567.7 VEL 11.783 PTH 2.08 VHP 4.677 DPA -6.66 RAP 11.61 ECC 1.2873
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.86 22 1 32 4109.37 -27.59 180.66 260.72 61.15 23 10 2 3509.4 -31.21 172.89
 118.14 4 31 42 2899.57 -27.58 88.88 260.71 61.14 5 20 2 2299.6 -31.20 81.11
 61.86 22 1 32 4109.37 -27.59 180.66 260.72 61.15 23 10 2 3509.4 -31.21 172.89
 118.14 4 31 42 2899.57 -27.58 88.88 260.71 61.14 5 20 2 2299.6 -31.20 81.11
 61.86 22 1 32 4109.37 -27.59 180.66 260.72 61.15 23 10 2 3509.4 -31.21 172.89
 118.14 4 31 42 2899.57 -27.58 88.88 260.71 61.14 5 20 2 2299.6 -31.20 81.11

DIFFERENTIAL CORRECTIONS

TDE 2.4958 TRA 2.1406 TC3-3.4043 BAU .7946
 RDE .3789 RRA .1007 RC3 -.0000 FAU .06951
 FDE 2.9381 FRA 3.2757 FC3-3.4466 BSP 18697
 BDE 2.5244 BRA 2.1430 BC3 3.4043 FSP -2336

MID-COURSE EXECUTION ACCURACY

SGT 5839.9 SGR 549.2 SG3 658.1
 RRT .7641 RRF .7465 RTF .9861
 SGB 5865.6 R23 -.0152 R13 .9861
 SG1 5855.0 SG2 353.3 THA 4.13

ORBIT DETERMINATION ACCURACY

ST 3606.5 SR 522.3 SS 1773.2
 CRT .9761 CRS -.9538 CST -.9962
 LSA 4048.5 MSA 183.1 SSA 12.8
 EL1 3642.4 EL2 112.4 ALF 8.05

LAUNCH DATE DEC 23 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 545.804

RL 147.15 LAL .00 LOL 91.24 VL 27.577 GAL 5.29 AZL 86.39 MCA 249.42 SMA 127.20 ECC .18136 INC 3.6075 V1 30.277
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.352 GAP 6.38 AZP 91.27 TAL 154.71 TAP 44.13 RCA 104.13 APO 150.27 V2 34.815
 RC 128.306 GL 23.88 GP -7.06 ZAL 51.76 ZAP 150.85 ETS 348.49 ZAE 128.97 ETE 184.60 ZAC 104.85 ETC 168.42 CLP-151.65

PLANETOCENTRIC CONIC

C3 18.209 VHL 4.267 OLA 38.57 RAL 32.49 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 4.884 DPA -5.73 RAP 12.45 ECC 1.2997
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.64 22 12 12 4108.39 -26.94 180.18 262.91 61.29 23 20 41 3508.4 -30.55 172.45
 117.36 4 34 51 2920.15 -26.93 90.20 262.90 61.28 5 23 31 2320.1 -30.54 82.47
 62.64 22 12 12 4108.39 -26.94 180.18 262.91 61.29 23 20 41 3508.4 -30.55 172.45
 117.36 4 34 51 2920.15 -26.93 90.20 262.90 61.28 5 23 31 2320.1 -30.54 82.47
 62.64 22 12 12 4108.39 -26.94 180.18 262.91 61.29 23 20 41 3508.4 -30.55 172.45
 117.36 4 34 51 2920.15 -26.93 90.20 262.90 61.28 5 23 31 2320.1 -30.54 82.47

DIFFERENTIAL CORRECTIONS

TDE 2.5194 TRA 2.3234 TC3-3.3393 BAU .8129
 RDE .3794 RRA .0943 RC3 .0159 FAU .06315
 FDE 2.6925 FRA 3.1985 FC3-3.0026 BSP 19146
 BDE 2.5478 BRA 2.3253 BC3 3.3394 FSP -2171

MID-COURSE EXECUTION ACCURACY

SGT 5956.9 SGR 534.8 SG3 609.8
 RRT .7317 RRF .7145 RTF .9859
 SGB 5980.8 R23 -.0141 R13 .9859
 SG1 5969.8 SG2 363.7 THA 3.77

ORBIT DETERMINATION ACCURACY

ST 3589.3 SR 511.8 SS 1676.7
 CRT .9698 CRS -.9450 CST -.9962
 LSA 3990.1 MSA 186.6 SSA 13.1
 EL1 3623.5 EL2 123.6 ALF 7.88

LAUNCH DATE DEC 23 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC
 RL 147.15 LAL .00 LOL 91.24 VL 27.557 GAL 5.59 AZL 86.45 MCA 252.59 SMA 127.07 ECC .18503 INC 3.5537 V1 30.277
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.344 GAP 6.78 AZP 91.06 TAL 153.80 TAP 46.39 RCA 103.55 APO 150.58 V2 34.821
 RC 130.653 GL 22.91 GP -6.63 ZAL 50.41 ZAP 152.78 ETS 348.33 ZAE 128.16 ETE 184.08 ZAC 105.98 ETC 168.45 CLP-153.54

DISTANCE 551.719

PLANETOCENTRIC CONIC
 C3 19.066 VML 4.366 CLA 38.05 RAL 34.22 RAD 6567.8 VEL 11.851 PTH 2.10 VMP 5.099 DPA -4.81 RAP 13.43 ECC 1.3138
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.44 22 23 2 4107.79 -26.26 179.71 265.16 61.41 23 31 30 3507.8 -29.86 172.03
 116.56 4 37 48 2942.34 -26.25 91.61 265.15 61.40 5 26 51 2342.3 -29.85 83.93
 63.44 22 23 2 4107.79 -26.26 179.71 265.16 61.41 23 31 30 3507.8 -29.86 172.03
 116.56 4 37 48 2942.34 -26.25 91.61 265.15 61.40 5 26 51 2342.3 -29.85 83.93
 63.44 22 23 2 4107.79 -26.26 179.71 265.16 61.41 23 31 30 3507.8 -29.86 172.03
 116.56 4 37 48 2942.34 -26.25 91.61 265.15 61.40 5 26 51 2342.3 -29.85 83.93

DIFFERENTIAL CORRECTIONS
 TDE 2.5391 TRA 2.5162 TC3-3.2542 BAU .8295 SGT 6062.9 SGR 524.6 SG3 565.5 ST 3562.4 SR 504.2 SS 1586.2
 RDE .3827 RRA .0899 RC3 .0273 FAU .05728 RRT .7022 RRF .6858 RTF .9857 CRT .9630 CRS -.9357 CST -.9961
 FDE 2.4711 FRA 3.1275 FC3-2.6010 BSP 19560 SGB 6085.5 R23 -.0125 R13 .9856 LSA 3927.4 MSA 190.6 SSA 13.2
 BDE 2.5678 BRA 2.5178 BC3 3.2543 FSP -2020 SG1 6074.1 SG2 372.8 THA 3.49 EL1 3595.3 EL2 134.7 ALF 7.77

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 23 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC
 RL 147.15 LAL .00 LOL 91.24 VL 27.537 GAL 5.91 AZL 86.50 MCA 255.76 SMA 126.93 ECC .18900 INC 3.5018 V1 30.277
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.335 GAP 7.19 AZP 90.86 TAL 152.88 TAP 48.64 RCA 102.94 APO 150.92 V2 34.829
 RC 132.989 GL 21.95 GP -6.24 ZAL 49.05 ZAP 154.61 ETS 348.15 ZAE 127.43 ETE 183.65 ZAC 107.23 ETC 168.47 CLP-155.34

DISTANCE 557.604

PLANETOCENTRIC CONIC
 C3 20.040 VML 4.477 CLA 37.53 RAL 35.94 RAD 6567.8 VEL 11.892 PTH 2.11 VMP 5.325 DPA -3.89 RAP 14.51 ECC 1.3298
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.27 22 34 3 4107.53 -25.55 179.26 267.46 61.52 23 42 30 3507.5 -29.14 171.63
 115.73 4 40 31 2966.21 -25.54 93.14 267.46 61.51 5 29 58 2366.2 -29.13 85.51
 64.27 22 34 3 4107.53 -25.55 179.26 267.46 61.52 23 42 30 3507.5 -29.14 171.63
 115.73 4 40 31 2966.21 -25.54 93.14 267.46 61.51 5 29 58 2366.2 -29.13 85.51
 64.27 22 34 3 4107.53 -25.55 179.26 267.46 61.52 23 42 30 3507.5 -29.14 171.63
 115.73 4 40 31 2966.21 -25.54 93.14 267.46 61.51 5 29 58 2366.2 -29.13 85.51

DIFFERENTIAL CORRECTIONS
 TDE 2.5598 TRA 2.7235 TC3-3.1447 BAU .8426 SGT 6163.0 SGR 518.0 SG3 525.4 ST 3532.8 SR 499.2 SS 1504.8
 RDE .3886 RRA .0876 RC3 .0354 FAU .05163 RRT .6771 RRF .6620 RTF .9853 CRT .9557 CRS -.9261 CST -.9961
 FDE 2.2766 FRA 3.0671 FC3-2.2306 BSP 19853 SGB 6184.8 R23 -.0104 R13 .9853 LSA 3867.3 MSA 195.1 SSA 13.4
 BDE 2.5892 BRA 2.7249 BC3 3.1449 FSP -1869 SG1 6173.0 SG2 380.6 THA 3.27 EL1 3564.9 EL2 145.6 ALF 7.70

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 23 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC
 RL 147.15 LAL .00 LOL 91.24 VL 27.515 GAL 6.26 AZL 86.55 MCA 258.93 SMA 126.79 ECC .19328 INC 3.4513 V1 30.277
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.327 GAP 7.61 AZP 90.66 TAL 151.93 TAP 50.86 RCA 102.28 APO 151.29 V2 34.837
 RC 135.313 GL 20.98 GP -5.89 ZAL 47.69 ZAP 156.34 ETS 347.92 ZAE 126.77 ETE 183.29 ZAC 108.56 ETC 168.49 CLP-157.04

DISTANCE 563.456

PLANETOCENTRIC CONIC
 C3 21.144 VML 4.598 CLA 37.00 RAL 37.64 RAD 6567.9 VEL 11.938 PTH 2.12 VMP 5.560 DPA -2.98 RAP 15.69 ECC 1.3480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.12 22 45 15 4107.47 -24.81 178.81 269.82 61.62 23 53 43 3507.5 -28.39 171.23
 114.88 4 42 56 2991.93 -24.80 94.79 269.82 61.61 5 32 48 2391.9 -28.38 87.21
 65.12 22 45 15 4107.47 -24.81 178.81 269.82 61.62 23 53 43 3507.5 -28.39 171.23
 114.88 4 42 56 2991.93 -24.80 94.79 269.82 61.61 5 32 48 2391.9 -28.38 87.21
 65.12 22 45 15 4107.47 -24.81 178.81 269.82 61.62 23 53 43 3507.5 -28.39 171.23
 114.88 4 42 56 2991.93 -24.80 94.79 269.82 61.61 5 32 48 2391.9 -28.38 87.21

DIFFERENTIAL CORRECTIONS
 TDE 2.5729 TRA 2.9378 TC3-3.0283 BAU .8561 SGT 6248.5 SGR 513.1 SG3 488.1 ST 3489.4 SR 495.3 SS 1425.2
 RDE .3961 RRA .0868 RC3 .0396 FAU .04670 RRT .6554 RRF .6416 RTF .9850 CRT .9479 CRS -.9160 CST -.9960
 FDE 2.0954 FRA 3.0066 FC3-1.9122 BSP 20223 SGB 6269.5 R23 -.0087 R13 .9850 LSA 3796.3 MSA 200.2 SSA 13.4
 BDE 2.6032 BRA 2.9391 BC3 3.0286 FSP -1744 SG1 6257.6 SG2 387.0 THA 3.09 EL1 3520.9 EL2 156.3 ALF 7.68

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 23 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC
 RL 147.15 LAL .00 LOL 91.24 VL 27.494 GAL 6.62 AZL 86.60 MCA 262.10 SMA 126.64 ECC .19790 INC 3.4019 V1 30.277
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.319 GAP 8.05 AZP 90.47 TAL 150.98 TAP 53.07 RCA 101.58 APO 151.71 V2 34.846
 RC 137.625 GL 20.03 GP -5.58 ZAL 46.33 ZAP 157.99 ETS 347.63 ZAE 126.17 ETE 182.98 ZAC 109.99 ETC 168.49 CLP-158.67

DISTANCE 569.273

PLANETOCENTRIC CONIC
 C3 22.393 VML 4.732 CLA 36.46 RAL 39.33 RAD 6567.9 VEL 11.991 PTH 2.14 VMP 5.808 DPA -2.06 RAP 16.97 ECC 1.3685
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.00 22 56 40 4107.52 -24.03 178.36 272.23 61.71 24 5 7 3507.5 -27.62 170.83
 114.00 4 44 59 3019.62 -24.02 96.57 272.22 61.70 5 35 18 2419.6 -27.60 89.04
 66.00 22 56 40 4107.52 -24.03 178.36 272.23 61.71 24 5 7 3507.5 -27.62 170.83
 114.00 4 44 59 3019.62 -24.02 96.57 272.22 61.70 5 35 18 2419.6 -27.60 89.04
 66.00 22 56 40 4107.52 -24.03 178.36 272.23 61.71 24 5 7 3507.5 -27.62 170.83
 114.00 4 44 59 3019.62 -24.02 96.57 272.22 61.70 5 35 18 2419.6 -27.60 89.04

DIFFERENTIAL CORRECTIONS
 TDE 2.5849 TRA 3.1655 TC3-2.8969 BAU .8674 SGT 6326.4 SGR 509.9 SG3 454.0 ST 3441.8 SR 492.5 SS 1352.1
 RDE .4054 RRA .0878 RC3 .0414 FAU .04209 RRT .6382 RRF .6256 RTF .9846 CRT .9398 CRS -.9057 CST -.9960
 FDE 1.9334 FRA 2.9529 FC3-1.6272 BSP 20542 SGB 6346.9 R23 -.0068 R13 .9846 LSA 3724.8 MSA 205.6 SSA 13.4
 BDE 2.6165 BRA 3.1667 BC3 2.8972 FSP -1625 SG1 6334.8 SG2 392.0 THA 2.96 EL1 3472.9 EL2 166.8 ALF 7.68

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 23 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 575.050

RL 147.15 LAL .00 LOL 91.24 VL 27.472 GAL 7.02 AZL 86.65 MCA 265.27 SMA 126.50 ECC .20290 INC 3.3532 V1 30.277
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.312 GAP 8.50 AZP 90.28 TAL 150.01 TAP 55.28 RCA 100.83 APO 152.16 V2 34.855
 RC 139.923 GL 19.08 GP -5.30 ZAL 44.97 ZAP 159.56 ETS 347.28 ZAE 125.62 ETE 182.72 ZAC 111.49 ETC 168.49 CLP-160.23

PLANETOCENTRIC CONIC

C3 23.808 VHL 4.879 CLA 35.92 RAL 40.99 RAD 6568.0 VEL 12.049 PTH 2.15 VHP 6.067 OPA -1.15 RAP 18.31 ECC 1.3918
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.92 23 8 17 4107.64 -23.23 177.90 274.68 61.80 24 16 44 3507.6 -26.81 170.42
 113.08 4 46 38 3049.34 -23.21 98.47 274.67 61.79 5 37 27 2449.3 -26.79 91.00
 66.92 23 8 17 4107.64 -23.23 177.90 274.68 61.80 24 16 44 3507.6 -26.81 170.42
 113.08 4 46 38 3049.34 -23.21 98.47 274.67 61.79 5 37 27 2449.3 -26.79 91.00
 66.92 23 8 17 4107.64 -23.23 177.90 274.68 61.80 24 16 44 3507.6 -26.81 170.42
 113.08 4 46 38 3049.34 -23.21 98.47 274.67 61.79 5 37 27 2449.3 -26.79 91.00

DIFFERENTIAL CORRECTIONS

TDE 2.5947 TRA 3.4065 TC3-2.7550 BAU .8770
 RDE .4161 RRA .0906 RC3 .0413 FAU .03784
 FDE 1.7868 FRA 2.9045 FC3-1.3759 BSP 20840
 BDE 2.6278 BRA 3.4077 BC3 2.7553 FSP -1517

MID-COURSE EXECUTION ACCURACY

SGT 6395.9 SGR 507.6 SG3 422.8
 RRT .6250 RRF .6138 RTF .9843
 SGB 6416.0 R23 -.0049 R13 .9843
 SG1 6403.8 SG2 395.7 THA 2.85

ORBIT DETERMINATION ACCURACY

ST 3389.0 SR 490.2 SS 1284.1
 CRT .9312 CRS -.8952 CST -.9960
 LSA 3651.0 MSA 211.2 SSA 13.4
 EL1 3419.7 EL2 177.1 ALF 7.69

LAUNCH DATE DEC 23 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 580.785

RL 147.15 LAL .00 LOL 91.24 VL 27.449 GAL 7.44 AZL 86.70 MCA 268.45 SMA 126.35 ECC .20829 INC 3.3049 V1 30.277
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.304 GAP 8.97 AZP 90.09 TAL 149.03 TAP 57.47 RCA 100.03 APO 152.67 V2 34.865
 RC 142.207 GL 18.14 GP -5.05 ZAL 43.63 ZAP 161.07 ETS 346.85 ZAE 125.12 ETE 182.51 ZAC 113.05 ETC 168.47 CLP-161.74

PLANETOCENTRIC CONIC

C3 25.408 VHL 5.041 CLA 35.37 RAL 42.63 RAD 6568.0 VEL 12.115 PTH 2.17 VHP 6.340 OPA -.24 RAP 19.73 ECC 1.4181
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.87 23 20 5 4107.84 -22.39 177.43 277.16 61.88 24 28 32 3507.8 -25.97 170.00
 112.13 4 47 53 3081.13 -22.38 100.52 277.16 61.87 5 39 14 2481.1 -25.96 93.09
 67.87 23 20 5 4107.84 -22.39 177.43 277.16 61.88 24 28 32 3507.8 -25.97 170.00
 112.13 4 47 53 3081.13 -22.38 100.52 277.16 61.87 5 39 14 2481.1 -25.96 93.09
 67.87 23 20 5 4107.84 -22.39 177.43 277.16 61.88 24 28 32 3507.8 -25.97 170.00
 112.13 4 47 53 3081.13 -22.38 100.52 277.16 61.87 5 39 14 2481.1 -25.96 93.09

DIFFERENTIAL CORRECTIONS

TDE 2.6032 TRA 3.6625 TC3-2.6023 BAU .8840
 RDE .4280 RRA .0952 RC3 .0399 FAU .03386
 FDE 1.6547 FRA 2.8619 FC3-1.1538 BSP 21106
 BDE 2.6381 BRA 3.6637 BC3 2.6026 FSP -1416

MID-COURSE EXECUTION ACCURACY

SGT 6457.6 SGR 505.9 SG3 394.1
 RRT .6158 RRF .6057 RTF .9840
 SGB 6477.3 R23 -.0032 R13 .9840
 SG1 6465.1 SG2 398.2 THA 2.77

ORBIT DETERMINATION ACCURACY

ST 3332.8 SR 488.2 SS 1221.3
 CRT .9223 CRS -.8845 CST -.9960
 LSA 3576.3 MSA 217.0 SSA 13.3
 EL1 3363.2 EL2 187.0 ALF 7.72

LAUNCH DATE DEC 23 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 586.471

RL 147.15 LAL .00 LOL 91.24 VL 27.427 GAL 7.89 AZL 86.74 MCA 271.62 SMA 126.20 ECC .21413 INC 3.2567 V1 30.277
 RP 108.66 LAP -3.26 LOP 359.68 VP 37.297 GAP 9.47 AZP 89.91 TAL 148.04 TAP 59.67 RCA 99.18 APO 153.22 V2 34.875
 RC 144.478 GL 17.21 GP -4.82 ZAL 42.30 ZAP 162.52 ETS 346.33 ZAE 124.66 ETE 182.33 ZAC 114.67 ETC 168.43 CLP-163.18

PLANETOCENTRIC CONIC

C3 27.220 VHL 5.217 CLA 34.81 RAL 44.23 RAD 6568.1 VEL 12.190 PTH 2.19 VHP 6.628 OPA .67 RAP 21.22 ECC 1.4480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.86 23 32 9 4107.80 -21.52 176.92 279.69 61.96 24 40 36 3507.8 -25.10 169.55
 111.14 4 48 35 3115.30 -21.51 102.72 279.68 61.95 5 40 31 2515.3 -25.09 95.34
 68.86 23 32 9 4107.80 -21.52 176.92 279.69 61.96 24 40 36 3507.8 -25.10 169.55
 111.14 4 48 35 3115.30 -21.51 102.72 279.68 61.95 5 40 31 2515.3 -25.09 95.34
 68.86 23 32 9 4107.80 -21.52 176.92 279.69 61.96 24 40 36 3507.8 -25.10 169.55
 111.14 4 48 35 3115.30 -21.51 102.72 279.68 61.95 5 40 31 2515.3 -25.09 95.34

DIFFERENTIAL CORRECTIONS

TDE 2.6137 TRA 3.9371 TC3-2.4389 BAU .8876
 RDE .4411 RRA .1017 RC3 .0376 FAU .03006
 FDE 1.5378 FRA 2.8267 FC3 -.9562 BSP 21275
 BDE 2.6506 BRA 3.9384 BC3 2.4392 FSP -1317

MID-COURSE EXECUTION ACCURACY

SGT 6514.9 SGR 504.7 SG3 368.0
 RRT .6104 RRF .6017 RTF .9837
 SGB 6534.4 R23 -.0013 R13 .9837
 SG1 6522.2 SG2 399.3 THA 2.72

ORBIT DETERMINATION ACCURACY

ST 3277.2 SR 486.1 SS 1165.1
 CRT .9132 CRS -.8739 CST -.9961
 LSA 3504.9 MSA 222.8 SSA 13.2
 EL1 3307.2 EL2 196.3 ALF 7.74

LAUNCH DATE DEC 23 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 592.103

RL 147.15 LAL .00 LOL 91.24 VL 27.404 GAL 8.37 AZL 86.79 MCA 274.80 SMA 126.05 ECC .22045 INC 3.2083 V1 30.277
 RP 108.63 LAP -3.20 LOP 359.68 VP 37.290 GAP 9.99 AZP 89.73 TAL 147.06 TAP 61.88 RCA 98.26 APO 153.84 V2 34.885
 RC 146.734 GL 16.29 GP -4.62 ZAL 40.98 ZAP 163.93 ETS 345.68 ZAE 124.23 ETE 182.17 ZAC 116.35 ETC 168.37 CLP-164.59

PLANETOCENTRIC CONIC

C3 29.273 VHL 5.410 CLA 34.24 RAL 45.79 RAD 6568.2 VEL 12.274 PTH 2.21 VHP 6.932 OPA 1.57 RAP 22.75 ECC 1.4818
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.89 23 44 30 4107.37 -20.63 176.38 282.24 62.04 24 52 58 3507.4 -24.20 169.05
 110.11 4 48 43 3152.01 -20.61 105.09 282.23 62.03 5 41 15 2552.0 -24.18 97.76
 69.89 23 44 30 4107.37 -20.63 176.38 282.24 62.04 24 52 58 3507.4 -24.20 169.05
 110.11 4 48 43 3152.01 -20.61 105.09 282.23 62.03 5 41 15 2552.0 -24.18 97.76
 69.89 23 44 30 4107.37 -20.63 176.38 282.24 62.04 24 52 58 3507.4 -24.20 169.05
 110.11 4 48 43 3152.01 -20.61 105.09 282.23 62.03 5 41 15 2552.0 -24.18 97.76

DIFFERENTIAL CORRECTIONS

TDE 2.6201 TRA 4.2253 TC3-2.2754 BAU .8906
 RDE .4548 RRA .1099 RC3 .0344 FAU .02667
 FDE 1.4295 FRA 2.7935 FC3 -.7888 BSP 21510
 BDE 2.6592 BRA 4.2267 BC3 2.2756 FSP -1233

MID-COURSE EXECUTION ACCURACY

SGT 6561.7 SGR 503.1 SG3 343.7
 RRT .6077 RRF .6000 RTF .9834
 SGB 6581.0 R23 -.0001 R13 .9834
 SG1 6568.9 SG2 399.1 THA 2.68

ORBIT DETERMINATION ACCURACY

ST 3215.6 SR 483.5 SS 1111.6
 CRT .9036 CRS -.8630 CST -.9961
 LSA 3428.9 MSA 228.5 SSA 13.0
 EL1 3245.3 EL2 205.2 ALF 7.77

LAUNCH DATE DEC 23 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.381 GAL 8.89 AZL 86.84 HCA 277.98 SMA 125.90 ECC .22730 INC 3.1595 V1 30.277
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.284 GAP 10.53 AZP 89.56 TAL 146.07 TAP 64.06 RCA 97.28 APO 154.52 V2 34.897
 RC 148.977 GL 15.38 GP -4.43 ZAL 39.69 ZAP 165.28 ETS 344.88 ZAE 123.83 ETE 182.05 ZAC 118.06 ETC 168.28 CLP-165.95

PLANETOCENTRIC CONIC

C3 31.605 VHL 5.622 CLA 33.67 RAL 47.32 RAD 6568.3 VEL 12.368 PTH 2.23 VHP 7.254 OPA 2.46 RAP 24.34 ECC 1.5201
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.98 0 1 4 4106.56 -19.70 175.79 284.82 62.13 1 9 31 3506.6 -23.27 168.52
 109.02 4 48 13 3191.29 -19.69 107.63 284.81 62.12 5 41 25 2591.3 -23.26 100.35
 70.98 0 1 4 4106.56 -19.70 175.79 284.82 62.13 1 9 31 3506.6 -23.27 168.52
 109.02 4 48 13 3191.29 -19.69 107.63 284.81 62.12 5 41 25 2591.3 -23.26 100.35
 110.00 5 39 7 3035.67 -24.17 97.92 287.21 65.06 6 29 42 2435.7 -27.32 90.17
 110.00 4 9 22 3310.18 -15.34 114.30 282.24 59.07 5 4 32 2710.2 -19.33 107.45

DIFFERENTIAL CORRECTIONS

TDE 2.6260 TRA 4.5320 TC3-2.1084 BAU .8909
 RDE .4692 RRA .1198 RC3 .0308 FAU .02350
 FDE 1.3316 FRA 2.7657 FC3 -.6439 BSP 21723
 BOE 2.6676 BRA 4.5335 BC3 2.1086 FSP -1155

MID-COURSE EXECUTION ACCURACY

SGT 6601.7 SGR 501.4 SC3 321.4
 RRT .6078 RRF .6010 RTF .9832
 SGB 6620.7 R23 .0014 R13 .9832
 SG1 6608.7 SG2 397.7 THA 2.65

ORBIT DETERMINATION ACCURACY

ST 3152.8 SR 480.2 SS 1062.6
 CRT .8937 CRS -.8520 CST -.9962
 LSA 3353.3 MSA 233.9 SSA 12.8
 EL1 3182.0 EL2 213.5 ALF 7.79

LAUNCH DATE DEC 23 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.358 GAL 9.44 AZL 86.89 HCA 281.16 SMA 125.75 ECC .23474 INC 3.1099 V1 30.277
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.278 GAP 11.11 AZP 89.40 TAL 145.10 TAP 66.26 RCA 96.23 APO 155.26 V2 34.908
 RC 151.204 GL 14.49 GP -4.26 ZAL 38.43 ZAP 166.60 ETS 343.90 ZAE 123.45 ETE 181.94 ZAC 119.81 ETC 168.18 CLP-167.28

PLANETOCENTRIC CONIC

C3 34.258 VHL 5.853 CLA 33.09 RAL 48.80 RAD 6568.4 VEL 12.475 PTH 2.26 VHP 7.597 OPA 3.35 RAP 25.97 ECC 1.5638
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.12 0 14 4 4105.01 -18.75 175.14 287.42 62.22 1 22 29 3505.0 -22.32 167.91
 107.88 4 47 1 3233.46 -18.74 110.36 287.41 62.21 5 40 54 2633.5 -22.30 103.13
 72.12 0 14 4 4105.01 -18.75 175.14 287.42 62.22 1 22 29 3505.0 -22.32 167.91
 107.88 4 47 1 3233.46 -18.74 110.36 287.41 62.21 5 40 54 2633.5 -22.30 103.13
 110.00 6 5 23 2992.77 -25.37 95.17 290.86 66.28 6 55 16 2392.8 -28.35 87.26
 110.00 3 54 53 3393.70 -12.37 118.95 283.61 57.88 4 51 26 2793.7 -16.52 112.30

DIFFERENTIAL CORRECTIONS

TDE 2.6325 TRA 4.8593 TC3-1.9391 BAU .8882
 RDE .4841 RRA .1316 RC3 .0271 FAU .02053
 FDE 1.2435 FRA 2.7431 FC3 -.5188 BSP 21907
 BOE 2.6766 BRA 4.8611 BC3 1.9393 FSP -1082

MID-COURSE EXECUTION ACCURACY

SGT 6635.5 SGR 499.3 SC3 300.8
 RRT .6104 RRF .6043 RTF .9831
 SGB 6634.2 R23 .0026 R13 .9831
 SG1 6642.5 SG2 395.0 THA 2.64

ORBIT DETERMINATION ACCURACY

ST 3089.8 SR 476.2 SS 1018.2
 CRT .8835 CRS -.8410 CST -.9964
 LSA 3279.2 MSA 238.9 SSA 12.6
 EL1 3118.4 EL2 221.0 ALF 7.79

LAUNCH DATE DEC 23 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.334 GAL 10.04 AZL 86.94 HCA 284.35 SMA 125.60 ECC .24284 INC 3.0591 V1 30.277
 RP 108.52 LAP -2.96 LOP 15.60 VP 37.272 GAP 11.72 AZP 89.24 TAL 144.13 TAP 68.48 RCA 95.10 APO 156.09 V2 34.920
 RC 153.416 GL 13.61 GP -4.11 ZAL 37.19 ZAP 167.88 ETS 342.67 ZAE 123.09 ETE 181.86 ZAC 121.59 ETC 168.04 CLP-168.59

PLANETOCENTRIC CONIC

C3 37.285 VHL 6.106 CLA 32.51 RAL 50.22 RAD 6568.5 VEL 12.596 PTH 2.28 VHP 7.962 OPA 4.23 RAP 27.63 ECC 1.6136
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.32 0 27 32 4102.36 -17.77 174.40 290.04 62.32 1 35 55 3502.4 -21.34 167.21
 106.68 4 44 57 3278.88 -17.76 113.31 290.04 62.31 5 39 36 2678.9 -21.33 106.12
 73.32 0 27 32 4102.36 -17.77 174.40 290.04 62.32 1 35 55 3502.4 -21.34 167.21
 106.68 4 44 57 3278.88 -17.76 113.31 290.04 62.31 5 39 36 2678.9 -21.33 106.12
 110.00 6 26 29 2965.72 -26.10 93.40 294.28 67.10 7 15 55 2365.7 -28.97 85.39
 110.00 3 45 11 3463.51 -9.81 122.74 285.26 57.09 4 42 54 2863.5 -14.08 116.24

DIFFERENTIAL CORRECTIONS

TDE 2.6443 TRA 5.2130 TC3-1.7648 BAU .8797
 RDE .4998 RRA .1455 RC3 .0238 FAU .01761
 FDE 1.1668 FRA 2.7281 FC3 -.4090 BSP 21975
 BOE 2.6911 BRA 5.2150 BC3 1.7649 FSP -1008

MID-COURSE EXECUTION ACCURACY

SGT 6666.8 SGR 497.0 SC3 282.1
 RRT .6157 RRF .6103 RTF .9830
 SGB 6685.3 R23 .0037 R13 .9831
 SG1 6673.9 SG2 391.2 THA 2.64

ORBIT DETERMINATION ACCURACY

ST 3031.3 SR 471.5 SS 979.7
 CRT .8733 CRS -.8305 CST -.9966
 LSA 3211.2 MSA 243.2 SSA 12.4
 EL1 3059.3 EL2 227.6 ALF 7.78

LAUNCH DATE DEC 23 1968

FLIGHT TIME 220.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

RL 147.15 LAL .00 LOL 91.24 VL 27.311 GAL 10.69 AZL 86.99 HCA 287.53 SMA 125.44 ECC .25167 INC 3.0068 V1 30.277
 RP 108.48 LAP -2.87 LOP 18.79 VP 37.266 GAP 12.37 AZP 89.09 TAL 143.19 TAP 70.72 RCA 93.87 APO 157.01 V2 34.932
 RC 155.612 GL 12.74 GP -3.97 ZAL 36.00 ZAP 169.13 ETS 341.11 ZAE 122.74 ETE 181.79 ZAC 123.39 ETC 167.87 CLP-169.88

PLANETOCENTRIC CONIC

C3 40.747 VHL 6.383 CLA 31.93 RAL 51.60 RAD 6568.6 VEL 12.732 PTH 2.31 VHP 8.353 OPA 5.09 RAP 29.33 ECC 1.6706
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.60 0 41 35 4098.14 -16.78 173.53 292.68 62.43 1 49 53 3498.1 -20.34 166.39
 105.40 4 41 53 3327.97 -16.76 116.50 292.67 62.43 5 37 21 2728.0 -20.32 109.36
 74.60 0 41 35 4098.14 -16.78 173.53 292.68 62.43 1 49 53 3498.1 -20.34 166.39
 105.40 4 41 53 3327.97 -16.76 116.50 292.67 62.43 5 37 21 2728.0 -20.32 109.36
 110.00 6 44 53 2947.04 -26.59 92.17 297.58 67.68 7 34 0 2347.0 -29.37 84.09
 110.00 3 37 46 3527.07 -7.44 126.14 287.06 56.54 4 36 33 2927.1 -11.79 119.74

DIFFERENTIAL CORRECTIONS

TDE 2.6522 TRA 5.5864 TC3-1.5970 BAU .8700
 RDE .5155 RRA .1610 RC3 .0204 FAU .01501
 FDE 1.0949 FRA 2.7156 FC3 .3189 BSP 22135
 BOE 2.7019 BRA 5.5887 BC3 1.5971 FSP -947

MID-COURSE EXECUTION ACCURACY

SGT 6687.8 SGR 493.7 SC3 264.6
 RRT .6222 RRF .6172 RTF .9831
 SGB 6706.0 R23 .0044 R13 .9831
 SG1 6694.9 SG2 386.1 THA 2.64

ORBIT DETERMINATION ACCURACY

ST 2968.5 SR 465.5 SS 943.3
 CRT .8626 CRS -.8197 CST -.9968
 LSA 3139.7 MSA 247.0 SSA 12.1
 EL1 2995.8 EL2 233.4 ALF 7.75

LAUNCH DATE DEC 24 1968

FLIGHT TIME 70.00

ARRIVAL DATE MAR 4 1969

HELIOCENTRIC CONIC

DISTANCE 141.311

RL 147.14 LAL .00 LOL 92.26 VL 18.922 GAL 16.41 AZL 85.92 MCA 48.66 SMA 91.79 ECC .64380 INC 4.0805 V1 30.279
 RP 107.49 LAP 3.06 LOP 140.85 VP 31.992 GAP -39.05 AZP 87.30 TAL 170.38 TAP 219.04 RCA 32.69 APO 150.88 V2 35.256
 RC 64.161 GL 5.53 GP 1.35 ZAL 66.06 ZAP 27.31 ETS 182.72 ZAE 144.45 ETE 191.77 ZAC 82.66 ETC 165.94 CLP 27.28

PLANETOCENTRIC CONIC

C3 179.412 VHL 13.394 CLA 15.31 RAL 22.33 RAD 6570.9 VEL 17.342 PTH 2.95 VHP 22.727 DPA -6.56 RAP 349.93 ECC 3.9527
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 16 3212.60 -25.92 111.63 287.39 78.18 5 31 48 2612.6 -27.29 103.23
 90.00 20 39 51 4863.18 19.68 210.72 274.44 69.22 22 0 54 4263.2 16.68 203.34
 100.00 6 7 58 2923.32 -27.72 90.77 287.81 78.34 6 56 41 2323.3 -29.05 82.22
 100.00 21 52 50 4627.69 21.40 192.70 273.73 68.61 23 9 58 4027.7 18.30 185.28
 110.00 7 34 50 2651.54 -32.49 71.24 288.93 78.72 8 19 1 2051.5 -33.70 62.22
 110.00 22 42 28 4472.24 25.90 178.90 271.72 66.87 23 57 0 3872.2 22.54 171.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6295 TRA-1.6421 TC3 -.1124 BAU .2741 SGT 832.8 SGR 445.0 SG3 31.4 ST 346.9 SR 411.4 SS 331.8
 RDE -.9545 RRA .3794 RC3 -.0205 FAU .01342 RRT .0107 RRF -.0129 RTF -.6412 CRT .6932 CRS .7938 CST -.9869
 FDE .3406 FRA .6415 FC3 -.0647 BSP 2208 SGB 944.3 R23 -.0033 R13 -.6413 LSA 590.4 MSA 225.6 SSA 13.7
 BDE 1.1434 BRA 1.6854 BC3 .1143 FSP -66 SGI 832.8 SG2 445.0 THA .46 ELI 496.7 EL2 207.1 ALF 51.94

LAUNCH DATE DEC 24 1968

FLIGHT TIME 72.00

ARRIVAL DATE MAR 6 1969

HELIOCENTRIC CONIC

DISTANCE 147.347

RL 147.14 LAL .00 LOL 92.26 VL 19.574 GAL 15.71 AZL 86.01 MCA 51.91 SMA 93.41 ECC .61640 INC 3.9917 V1 30.279
 RP 107.50 LAP 3.14 LOP 144.10 VP 32.379 GAP -37.20 AZP 87.54 TAL 169.65 TAP 221.56 RCA 35.83 APO 150.98 V2 35.253
 RC 62.196 GL 5.90 GP 1.39 ZAL 65.00 ZAP 25.78 ETS 183.09 ZAE 145.17 ETE 192.47 ZAC 84.31 ETC 166.05 CLP 25.75

PLANETOCENTRIC CONIC

C3 162.591 VHL 12.751 CLA 16.05 RAL 23.23 RAD 6570.8 VEL 16.850 PTH 2.91 VHP 21.799 DPA -5.84 RAP 351.49 ECC 3.6758
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 54 3222.92 -25.77 112.35 287.31 77.84 5 28 37 2622.9 -27.19 103.97
 90.00 20 50 23 4819.62 18.60 207.98 274.16 68.26 22 10 43 4219.6 15.49 200.69
 100.00 6 5 11 2931.79 -27.60 91.37 287.75 78.05 6 54 3 2331.8 -28.97 82.83
 100.00 22 2 48 4585.99 20.34 190.06 273.41 67.61 23 19 14 3986.0 17.13 182.74
 110.00 7 33 15 2656.24 -32.42 71.60 288.90 78.53 8 17 31 2056.2 -33.66 62.58
 110.00 22 51 13 4434.30 24.86 176.44 271.30 65.74 24 5 7 3834.3 21.37 169.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6277 TRA-1.6425 TC3 -.1179 BAU .2611 SGT 871.7 SGR 449.4 SG3 34.1 ST 364.3 SR 416.1 SS 347.2
 RDE -.9193 RRA .3576 RC3 -.0228 FAU .01365 RRT .0143 RRF -.0167 RTF -.6608 CRT .6925 CRS .7950 CST .9865
 FDE .3538 FRA .6642 FC3 -.0727 BSP 2373 SGB 980.7 R23 -.0038 R13 -.6608 LSA 610.4 MSA 231.6 SSA 13.9
 BDE 1.1131 BRA 1.6809 BC3 .1201 FSP -74 SGI 871.7 SG2 449.3 THA .58 ELI 509.7 EL2 214.6 ALF 50.45

LAUNCH DATE DEC 24 1968

FLIGHT TIME 74.00

ARRIVAL DATE MAR 8 1969

HELIOCENTRIC CONIC

DISTANCE 153.468

RL 147.14 LAL .00 LOL 92.26 VL 20.182 GAL 15.03 AZL 86.09 MCA 55.16 SMA 95.02 ECC .58973 INC 3.9105 V1 30.279
 RP 107.51 LAP 3.21 LOP 147.35 VP 32.747 GAP -35.45 AZP 87.76 TAL 168.94 TAP 224.10 RCA 38.99 APO 151.06 V2 35.250
 RC 60.278 GL 6.29 GP 1.44 ZAL 64.01 ZAP 24.27 ETS 183.50 ZAE 146.02 ETE 193.23 ZAC 85.98 ETC 166.15 CLP 24.23

PLANETOCENTRIC CONIC

C3 147.425 VHL 12.142 CLA 16.78 RAL 24.07 RAD 6570.6 VEL 16.394 PTH 2.86 VHP 20.905 DPA -5.11 RAP 353.06 ECC 3.4263
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 16 3232.44 -25.63 113.01 287.10 77.54 5 25 9 2632.4 -27.10 104.65
 90.00 21 0 44 4775.34 17.46 205.23 273.81 67.35 22 20 19 4175.3 14.25 198.03
 100.00 6 2 9 2939.36 -27.50 91.91 287.56 77.79 6 51 8 2339.4 -28.90 83.39
 100.00 22 12 32 4543.64 19.22 187.41 273.03 66.65 23 28 16 3943.6 15.90 180.20
 110.00 7 31 27 2659.96 -32.37 71.88 288.75 78.37 8 15 47 2060.0 -33.64 62.87
 110.00 22 59 43 4395.81 23.76 174.00 270.82 64.67 24 12 59 3795.8 20.15 166.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6263 TRA-1.6424 TC3 -.1232 BAU .2478 SGT 912.2 SGR 453.1 SG3 37.1 ST 382.6 SR 420.2 SS 363.2
 RDE -.8842 RRA .3360 RC3 -.0253 FAU .01392 RRT .0185 RRF -.0210 RTF -.6797 CRT .6921 CRS .7965 CST .9862
 FDE .3675 FRA .6873 FC3 -.0817 BSP 2541 SGB 1018.5 R23 -.0044 R13 -.6797 LSA 631.2 MSA 237.2 SSA 14.1
 BDE 1.0836 BRA 1.6764 BC3 .1257 FSP -82 SGI 912.2 SG2 453.0 THA .70 ELI 523.3 EL2 221.8 ALF 48.66

LAUNCH DATE DEC 24 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 10 1969

HELIOCENTRIC CONIC

DISTANCE 159.668

RL 147.14 LAL .00 LOL 92.26 VL 20.750 GAL 14.37 AZL 86.16 MCA 58.40 SMA 96.63 ECC .56384 INC 3.8354 V1 30.279
 RP 107.52 LAP 3.27 LOP 150.60 VP 33.095 GAP -33.78 AZP 87.99 TAL 168.26 TAP 226.66 RCA 42.15 APO 151.12 V2 35.246
 RC 58.412 GL 6.68 GP 1.49 ZAL 63.08 ZAP 22.78 ETS 183.97 ZAE 146.99 ETE 194.07 ZAC 87.66 ETC 166.23 CLP 22.73

PLANETOCENTRIC CONIC

C3 133.740 VHL 11.565 CLA 17.49 RAL 24.85 RAD 6570.4 VEL 15.971 PTH 2.82 VHP 20.044 DPA -4.36 RAP 354.65 ECC 3.2010
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 21 3241.20 -25.50 113.62 286.76 77.26 5 21 22 2641.2 -27.01 105.27
 90.00 21 10 53 4730.31 16.26 202.47 273.41 66.50 22 29 43 4130.3 12.95 195.37
 100.00 5 58 51 2946.11 -27.40 92.38 287.24 77.55 6 47 57 2346.1 -28.84 83.88
 100.00 22 22 4 4500.64 18.04 184.77 272.59 65.75 23 37 4 3900.6 14.61 177.65
 110.00 7 29 25 2662.73 -32.33 72.08 288.46 78.25 8 13 48 2062.7 -33.61 63.08
 110.00 23 7 59 4356.78 22.60 171.56 270.29 63.65 24 20 36 3756.8 18.88 164.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6276 TRA-1.6434 TC3 -.1285 BAU .2351 SGT 955.9 SGR 456.1 SG3 40.3 ST 402.9 SR 423.7 SS 379.9
 RDE -.8495 RRA .3147 RC3 -.0279 FAU .01420 RRT .0240 RRF -.0262 RTF -.6975 CRT .6930 CRS .7982 CST .9860
 FDE .3820 FRA .7110 FC3 -.0920 BSP 2667 SGB 1059.1 R23 -.0045 R13 -.6976 LSA 653.7 MSA 242.4 SSA 14.3
 BDE 1.0562 BRA 1.6733 BC3 .1315 FSP -90 SGI 956.0 SG2 455.9 THA .85 ELI 538.1 EL2 228.7 ALF 47.08

LAUNCH DATE DEC 24 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 12 1969

MELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 21.280 GAL 13.72 AZL 86.23 MCA 61.65 SMA 98.22 ECC .53880 INC 3.7654 V1 30.279
 RP 107.53 LAP 3.31 LOP 153.85 VP 33.425 GAP -32.19 AZP 88.21 TAL 167.60 TAP 229.25 RCA 45.30 APO 151.15 V2 35.241
 RC 56.605 GL 7.08 GP 1.55 ZAL 62.21 ZAP 21.30 ETS 184.49 ZAE 148.11 ETE 194.99 ZAC 89.35 ETC 166.30 CLP 21.25

PLANETOCENTRIC CONIC
 C3 121.378 VHL 11.017 OLA 18.19 RAL 25.57 RAD 6570.3 VEL 15.579 PTH 2.77 VHP 19.213 DPA -3.60 RAP 356.24 ECC 2.9976
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 23 7 3249.28 -25.38 114.18 286.30 77.01 5 17 16 2649.3 -26.92 105.85
 90.00 21 20 52 4684.52 15.00 199.70 272.95 65.70 22 38 57 4084.5 11.59 192.68
 100.00 5 55 17 2952.07 -27.31 92.80 286.79 77.35 6 44 29 2352.1 -28.78 84.31
 100.00 22 31 23 4456.97 16.80 182.12 272.10 64.90 23 45 40 3857.0 13.28 175.10
 110.00 7 27 10 2664.59 -32.31 72.22 288.04 78.17 8 11 34 2064.6 -33.60 63.23
 110.00 23 15 59 4317.21 21.38 169.13 269.71 62.67 24 27 57 3717.2 17.55 162.10

DIFFERENTIAL CORRECTIONS
 TDE -.6273 TRA-1.6416 TC3 -.1327 BAU .2210
 RDE -.8150 RRA .2937 RC3 -.0306 FAU .01454
 FDE .3969 FRA .7349 FC3 -.1037 BSP 2843
 BOE 1.0285 BRA 1.6677 BC3 .1362 FSP -99

MID-COURSE EXECUTION ACCURACY
 SGT 999.7 SGR 458.3 SG3 43.8
 RRT .0295 RRF -.0318 RTF -.7149
 SGB 1099.8 R23 -.0051 R13 -.7150
 SG1 999.8 SG2 458.1 THA .98

ORBIT DETERMINATION ACCURACY
 ST 423.3 SR 426.6 SS 397.1
 CRT .6938 CRS .8002 CST .9858
 LSA 676.5 MSA 247.0 SSA 14.5
 EL1 553.1 EL2 235.1 ALF 45.32

LAUNCH DATE DEC 24 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 14 1969

MELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 21.774 GAL 13.10 AZL 86.30 MCA 64.89 SMA 99.80 ECC .51463 INC 3.6996 V1 30.279
 RP 107.53 LAP 3.35 LOP 157.10 VP 33.736 GAP -30.68 AZP 88.43 TAL 166.97 TAP 231.86 RCA 48.44 APO 151.16 V2 35.235
 RC 54.864 GL 7.49 GP 1.61 ZAL 61.41 ZAP 19.84 ETS 185.09 ZAE 149.37 ETE 196.01 ZAC 91.05 ETC 166.35 CLP 19.77

PLANETOCENTRIC CONIC
 C3 110.205 VHL 10.498 OLA 18.87 RAL 26.23 RAD 6570.1 VEL 15.217 PTH 2.73 VHP 18.411 DPA -2.82 RAP 357.83 ECC 2.8137
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 33 3256.76 -25.27 114.69 285.70 76.77 5 12 50 2656.8 -26.84 106.38
 90.00 21 30 41 4637.95 13.68 196.93 272.44 64.96 22 47 59 4038.0 10.19 189.98
 100.00 5 51 25 2957.31 -27.23 93.17 286.21 77.17 6 40 42 2357.3 -28.73 84.69
 100.00 22 40 30 4412.63 15.50 179.47 271.55 64.11 23 54 3 3812.6 11.89 172.53
 110.00 7 24 40 2665.58 -32.29 72.29 287.49 78.13 8 9 5 2065.6 -33.59 63.30
 110.00 23 23 45 4277.13 20.11 166.72 269.07 61.76 24 35 2 3677.1 16.18 159.80

DIFFERENTIAL CORRECTIONS
 TDE -.6275 TRA-1.6385 TC3 -.1360 BAU .2064
 RDE -.7810 RRA .2732 RC3 -.0335 FAU .01491
 FDE .4125 FRA .7593 FC3 -.1171 BSP 3029
 BOE 1.0018 BRA 1.6611 BC3 .1401 FSP -110

MID-COURSE EXECUTION ACCURACY
 SGT 1045.0 SGR 459.9 SG3 47.6
 RRT .0357 RRF -.0381 RTF -.7316
 SGB 1141.7 R23 -.0057 R13 -.7317
 SG1 1045.1 SG2 459.5 THA 1.12

ORBIT DETERMINATION ACCURACY
 ST 444.7 SR 428.9 SS 414.9
 CRT .6953 CRS .8024 CST .9856
 LSA 700.4 MSA 251.1 SSA 14.7
 EL1 568.9 EL2 241.0 ALF 43.51

LAUNCH DATE DEC 24 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 16 1969

MELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 22.236 GAL 12.50 AZL 86.36 MCA 68.13 SMA 101.34 ECC .49136 INC 3.6373 V1 30.279
 RP 107.57 LAP 3.38 LOP 160.35 VP 34.030 GAP -29.24 AZP 88.64 TAL 166.37 TAP 234.50 RCA 51.55 APO 151.14 V2 35.229
 RC 53.197 GL 7.91 GP 1.68 ZAL 60.68 ZAP 18.39 ETS 185.78 ZAE 150.77 ETE 197.15 ZAC 92.76 ETC 166.39 CLP 18.31

PLANETOCENTRIC CONIC
 C3 100.102 VHL 10.005 OLA 19.54 RAL 26.82 RAD 6569.9 VEL 14.881 PTH 2.69 VHP 17.637 DPA -2.03 RAP 359.43 ECC 2.6474
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 39 3263.71 -25.16 115.17 284.98 76.55 5 8 3 2663.7 -26.76 106.87
 90.00 21 40 20 4590.61 12.29 194.13 271.87 64.29 22 56 51 3990.6 8.74 187.26
 100.00 5 47 15 2961.90 -27.16 93.50 285.51 77.01 6 36 37 2361.9 -28.68 85.02
 100.00 22 49 26 4367.66 14.14 176.81 270.94 63.39 24 2 13 3767.7 10.46 169.96
 110.00 7 21 54 2665.76 -32.29 72.31 286.81 78.12 8 6 20 2065.8 -33.59 63.32
 110.00 23 31 16 4236.57 18.79 164.32 268.38 60.90 24 41 52 3636.6 14.77 157.51

DIFFERENTIAL CORRECTIONS
 TDE -.6281 TRA-1.6343 TC3 -.1384 BAU .1916
 RDE -.7474 RRA .2531 RC3 -.0366 FAU .01532
 FDE .4291 FRA .7843 FC3 -.1325 BSP 3220
 BOE .9763 BRA 1.6538 BC3 .1432 FSP -121

MID-COURSE EXECUTION ACCURACY
 SGT 1092.0 SGR 460.7 SG3 51.7
 RRT .0427 RRF -.0452 RTF -.7476
 SGB 1185.1 R23 -.0064 R13 -.7477
 SG1 1092.2 SG2 460.1 THA 1.25

ORBIT DETERMINATION ACCURACY
 ST 467.1 SR 430.5 SS 433.4
 CRT .6973 CRS .8050 CST .9854
 LSA 725.5 MSA 254.5 SSA 14.8
 EL1 585.6 EL2 246.1 ALF 41.65

LAUNCH DATE DEC 24 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 18 1969

MELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 22.666 GAL 11.91 AZL 86.42 MCA 71.37 SMA 102.86 ECC .46901 INC 3.5777 V1 30.279
 RP 107.59 LAP 3.39 LOP 163.60 VP 34.305 GAP -27.86 AZP 88.86 TAL 165.80 TAP 237.18 RCA 54.62 APO 151.11 V2 35.222
 RC 51.611 GL 8.34 GP 1.76 ZAL 60.01 ZAP 16.95 ETS 186.60 ZAE 152.32 ETE 198.46 ZAC 94.47 ETC 166.41 CLP 16.86

PLANETOCENTRIC CONIC
 C3 90.964 VHL 9.538 OLA 20.19 RAL 27.36 RAD 6569.8 VEL 14.571 PTH 2.64 VHP 16.890 DPA -1.23 RAP 1.03 ECC 2.4970
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 8 24 3270.25 -25.05 115.63 284.14 76.35 5 2 54 2670.2 -26.68 107.34
 90.00 21 49 51 4542.51 10.86 191.33 271.25 63.69 23 5 34 3942.5 7.24 184.53
 100.00 5 42 47 2965.91 -27.10 93.78 284.69 76.87 6 32 13 2365.9 -28.64 85.31
 100.00 22 58 9 4322.08 12.74 174.16 270.29 62.73 24 10 11 3722.1 8.98 167.38
 110.00 7 18 54 2665.18 -32.30 72.26 286.01 78.15 8 3 19 2065.2 -33.59 63.27
 110.00 23 38 31 4195.58 17.41 161.93 267.65 60.11 24 48 27 3595.6 13.31 155.23

DIFFERENTIAL CORRECTIONS
 TDE -.6319 TRA-1.6314 TC3 -.1408 BAU .1779
 RDE -.7144 RRA .2335 RC3 -.0397 FAU .01576
 FDE .4470 FRA .8104 FC3 -.1500 BSP 3352
 BOE .9538 BRA 1.6480 BC3 .1463 FSP -133

MID-COURSE EXECUTION ACCURACY
 SGT 1143.1 SGR 460.7 SG3 56.2
 RRT .0517 RRF -.0536 RTF -.7623
 SGB 1232.4 R23 -.0066 R13 -.7624
 SG1 1143.4 SG2 460.0 THA 1.42

ORBIT DETERMINATION ACCURACY
 ST 492.3 SR 431.5 SS 453.1
 CRT .7010 CRS .8080 CST .9855
 LSA 753.3 MSA 257.1 SSA 15.0
 EL1 604.8 EL2 250.5 ALF 39.66

LAUNCH DATE DEC 24 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 20 1969

HELIOCENTRIC CONIC

DISTANCE 191.654

RL 147.14 LAL .00 LOL 92.26 VL 23.068 GAL 11.35 AZL 86.48 MCA 74.61 SMA 104.35 ECC .44759 INC 3.5203 VI 30.279
 RP 107.61 LAP 3.39 LOP 166.84 VP 34.565 GAP -26.53 AZP 89.07 TAL 165.27 TAP 239.88 RCA 57.64 APO 151.06 V2 35.215
 RC 50.116 GL 8.78 GP 1.84 ZAL 59.42 ZAP 15.52 ETS 187.56 ZAE 154.02 ETE 199.96 ZAC 96.19 ETC 166.40 CLP 15.41

PLANETOCENTRIC CONIC

C3 82.697 VHL 9.094 DLA 20.83 RAL 27.83 RAD 6569.6 VEL 14.284 PTH 2.60 VHP 16.169 DPA -.42 RAP 2.63 ECC 2.3610
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 46 3276.46 -24.95 116.05 283.19 76.16 4 57 23 2676.5 -26.61 107.78
 90.00 21 59 14 4493.66 9.37 188.51 270.58 63.16 23 14 7 3893.7 5.69 181.76
 100.00 5 37 59 2969.43 -27.04 94.03 283.75 76.76 6 27 28 2369.4 -28.60 85.57
 100.00 23 6 42 4275.92 11.28 171.51 269.58 62.13 24 17 58 3675.9 7.47 164.80
 110.00 7 15 39 2663.90 -32.32 72.17 285.09 78.20 8 0 2 2063.9 -33.60 63.17
 110.00 23 45 32 4154.22 16.00 159.57 266.86 59.38 24 54 46 3554.2 11.81 152.96

DIFFERENTIAL CORRECTIONS

TDE -.6338 TRA-1.6244 TC3 -.1408 BAU .1627
 RDE -.6820 RRA .2144 RC3 -.0429 FAU .01626
 FDE .4658 FRA .8369 FC3 -.1702 BSP 3551
 BDE .9310 BRA 1.6385 BC3 .1472 FSP -147

MID-COURSE EXECUTION ACCURACY

SGT 1193.4 SGR 460.0 SG3 61.1
 RRT .0607 RRF -.0627 RTF -.7768
 SGB 1279.0 R23 -.0074 R13 -.7769
 SG1 1193.8 SG2 459.0 THA 1.57

ORBIT DETERMINATION ACCURACY

ST 517.2 SR 431.9 SS 473.5
 CRT .7046 CRS .8113 CST .9855
 LSA 781.6 MSA 259.0 SSA 15.2
 EL1 624.1 EL2 254.0 ALF 37.79

LAUNCH DATE DEC 24 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 22 1969

HELIOCENTRIC CONIC

DISTANCE 198.209

RL 147.14 LAL .00 LOL 92.26 VL 23.443 GAL 10.80 AZL 86.54 MCA 77.85 SMA 105.80 ECC .42711 INC 3.4648 VI 30.279
 RP 107.64 LAP 3.39 LOP 170.09 VP 34.808 GAP -25.27 AZP 89.27 TAL 164.77 TAP 242.63 RCA 60.61 APO 150.99 V2 35.207
 RC 48.721 GL 9.23 GP 1.93 ZAL 58.89 ZAP 14.10 ETS 188.73 ZAE 155.86 ETE 201.73 ZAC 97.90 ETC 166.38 CLP 13.97

PLANETOCENTRIC CONIC

C3 75.217 VHL 8.673 DLA 21.46 RAL 28.23 RAD 6569.5 VEL 14.020 PTH 2.56 VHP 15.472 DPA .41 RAP 4.23 ECC 2.2379
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 45 3282.47 -24.85 116.47 282.11 75.98 4 51 27 2682.5 -26.54 108.20
 90.00 22 8 29 4444.09 7.83 185.68 269.86 62.70 23 22 33 3844.1 4.11 178.98
 100.00 5 32 52 2972.54 -27.00 94.25 282.69 76.65 6 22 24 2372.5 -28.56 85.79
 100.00 23 15 3 4229.25 9.78 168.85 268.82 61.61 24 25 32 3629.3 5.92 162.20
 110.00 7 12 8 2661.99 -32.34 72.03 284.06 78.28 7 56 30 2062.0 -33.62 63.03
 110.00 23 52 16 4112.57 14.54 157.22 266.04 58.72 25 0 49 3512.6 10.29 150.69

DIFFERENTIAL CORRECTIONS

TDE -.6363 TRA-1.6163 TC3 -.1391 BAU .1474
 RDE -.6503 RRA .1958 RC3 -.0462 FAU .01682
 FDE .4859 FRA .8643 FC3 -.1936 BSP 3752
 BDE .9098 BRA 1.6281 BC3 .1466 FSP -163

MID-COURSE EXECUTION ACCURACY

SGT 1245.5 SGR 458.5 SG3 66.5
 RRT .0709 RRF -.0730 RTF -.7906
 SGB 1327.2 R23 -.0082 R13 -.7907
 SG1 1246.0 SG2 457.2 THA 1.73

ORBIT DETERMINATION ACCURACY

ST 543.3 SR 431.6 SS 494.8
 CRT .7089 CRS .8149 CST .9855
 LSA 811.4 MSA 260.2 SSA 15.3
 EL1 644.8 EL2 256.5 ALF 35.93

LAUNCH DATE DEC 24 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 24 1969

HELIOCENTRIC CONIC

DISTANCE 204.805

RL 147.14 LAL .00 LOL 92.26 VL 23.792 GAL 10.28 AZL 86.59 MCA 81.09 SMA 107.21 ECC .40755 INC 3.4106 VI 30.279
 RP 107.66 LAP 3.37 LOP 173.33 VP 35.035 GAP -24.05 AZP 89.47 TAL 164.32 TAP 245.41 RCA 63.52 APO 150.91 V2 35.198
 RC 47.437 GL 9.69 GP 2.03 ZAL 58.43 ZAP 12.69 ETS 190.17 ZAE 157.85 ETE 203.84 ZAC 99.61 ETC 166.33 CLP 12.53

PLANETOCENTRIC CONIC

C3 68.449 VHL 8.273 DLA 22.07 RAL 28.57 RAD 6569.3 VEL 13.777 PTH 2.52 VHP 14.799 DPA 1.24 RAP 5.82 ECC 2.1265
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 19 3288.38 -24.76 116.87 280.93 75.80 4 45 7 2688.4 -26.47 108.62
 90.00 22 17 37 4393.85 6.25 182.84 269.10 62.33 23 30 51 3793.8 2.50 176.17
 100.00 5 27 24 2975.32 -26.95 94.44 281.53 76.56 6 17 0 2375.3 -28.53 85.99
 100.00 23 23 13 4182.14 8.25 166.20 268.02 61.17 24 32 55 3582.1 4.34 159.59
 110.00 7 8 21 2659.50 -32.38 71.84 282.92 78.39 7 52 41 2059.5 -33.64 62.83
 110.00 0 2 41 4070.73 13.04 154.90 265.16 58.12 1 10 32 3470.7 8.74 148.45

DIFFERENTIAL CORRECTIONS

TDE -.6393 TRA-1.6065 TC3 -.1355 BAU .1319
 RDE -.6193 RRA .1777 RC3 -.0494 FAU .01745
 FDE .5074 FRA .8927 FC3 -.2207 BSP 3956
 BDE .8901 BRA 1.6162 BC3 .1442 FSP -179

MID-COURSE EXECUTION ACCURACY

SGT 1299.0 SGR 456.3 SG3 72.4
 RRT .0824 RRF -.0846 RTF -.8036
 SGB 1376.8 R23 -.0092 R13 -.8037
 SG1 1299.6 SG2 454.6 THA 1.89

ORBIT DETERMINATION ACCURACY

ST 570.7 SR 430.8 SS 517.3
 CRT .7141 CRS .8190 CST .9856
 LSA 843.0 MSA 260.6 SSA 15.4
 EL1 666.8 EL2 258.1 ALF 34.12

LAUNCH DATE DEC 24 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 26 1969

HELIOCENTRIC CONIC

DISTANCE 211.435

RL 147.14 LAL .00 LOL 92.26 VL 24.118 GAL 9.77 AZL 86.64 MCA 84.33 SMA 108.58 ECC .38891 INC 3.3574 VI 30.279
 RP 107.69 LAP 3.34 LOP 176.57 VP 35.248 GAP -22.88 AZP 89.67 TAL 163.90 TAP 248.23 RCA 66.35 APO 150.81 V2 35.189
 RC 46.274 GL 10.16 GP 2.14 ZAL 58.03 ZAP 11.29 ETS 192.00 ZAE 159.97 ETE 206.43 ZAC 101.32 ETC 166.26 CLP 11.08

PLANETOCENTRIC CONIC

C3 62.327 VHL 7.895 DLA 22.66 RAL 28.84 RAD 6569.2 VEL 13.553 PTH 2.48 VHP 14.149 DPA 2.08 RAP 7.41 ECC 2.0257
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 28 3294.32 -24.66 117.28 279.65 75.61 4 38 22 2694.3 -26.39 109.04
 90.00 22 26 39 4342.97 4.64 179.97 268.29 62.03 23 39 2 3743.0 .86 173.33
 100.00 5 21 37 2977.85 -26.91 94.62 280.27 76.47 6 11 15 2377.8 -28.51 86.18
 100.00 23 31 11 4134.68 6.68 163.55 267.17 60.80 24 40 6 3534.7 2.74 156.98
 110.00 7 4 20 2656.49 -32.42 71.62 281.67 78.51 7 48 37 2056.5 -33.66 62.60
 110.00 0 8 53 4028.80 11.53 152.60 264.24 57.59 1 16 2 3428.8 7.17 146.21

DIFFERENTIAL CORRECTIONS

TDE -.6429 TRA-1.5949 TC3 -.1294 BAU .1164
 RDE -.5892 RRA .1601 RC3 -.0525 FAU .01815
 FDE .5307 FRA .9222 FC3 -.2521 BSP 4166
 BDE .8721 BRA 1.6029 BC3 .1397 FSP -198

MID-COURSE EXECUTION ACCURACY

SGT 1353.8 SGR 453.4 SG3 78.8
 RRT .0953 RRF -.0977 RTF -.8160
 SGB 1427.7 R23 -.0102 R13 -.8162
 SG1 1354.6 SG2 451.1 THA 2.06

ORBIT DETERMINATION ACCURACY

ST 599.4 SR 429.3 SS 541.0
 CRT .7201 CRS .8235 CST .9858
 LSA 876.6 MSA 260.1 SSA 15.5
 EL1 690.5 EL2 258.6 ALF 32.36

LAUNCH DATE DEC 24 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 28 1969

HELIOCENTRIC CONIC

DISTANCE 218.096
 RL 147.14 LAL .00 LOL 92.26 VL 24.422 GAL 9.28 AZL 86.70 MCA 87.56 SMA 109.91 ECC .37119 INC 3.3048 V1 30.279
 RP 107.72 LAP 3.30 LOP 179.81 VP 35.447 GAP -21.76 AZP 89.86 TAL 163.53 TAP 251.09 RCA 69.11 APO 150.70 V2 35.179
 RC 45.244 GL 10.62 GP 2.26 ZAL 57.71 ZAP 9.90 ETS 194.39 ZAE 162.19 ETE 209.70 ZAC 103.01 ETC 166.17 CLP 9.64

PLANETOCENTRIC CONIC

C3 56.789 VHL 7.536 DLA 23.23 RAL 29.05 RAD 6569.0 VEL 13.347 PTH 2.44 VHP 13.521 DPA 2.93 RAP 8.99 ECC 1.9346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 11 3300.40 -24.55 117.69 278.26 75.43 4 31 12 2700.4 -26.32 109.47
 90.00 22 35 35 4291.53 2.99 177.09 267.43 61.83 23 47 7 3691.5 -1.80 170.46
 100.00 5 15 30 2980.20 -26.87 94.78 278.91 76.39 6 5 10 2380.2 -28.48 86.35
 100.00 23 38 58 4086.97 5.09 160.90 266.27 60.50 24 47 5 3487.0 1.12 154.36
 110.00 7 0 5 2653.02 -32.47 71.36 280.33 78.66 7 44 18 2053.0 -33.69 62.33
 110.00 0 14 48 3986.91 9.99 150.33 263.28 57.14 1 21 15 3386.9 5.59 144.00

DIFFERENTIAL CORRECTIONS

TDE -.6470 TRA-1.5821 TC3 -.1209 BAU .1010 SGT 1410.2 SGR 449.8 SG3 85.9 ST 629.5 SR 427.3 SS 566.0
 RDE -.5601 RRA .1431 RC3 -.0554 FAU .01892 RRT .1100 RRF -.1125 RTF -.8276 CRT .7270 CRS .8285 CST .9861
 FDE .5559 FRA .9532 FC3 -.2884 BSP 4378 SGB 1480.2 R23 -.0114 R13 -.8278 LSA 912.1 MSA 258.9 SSA 15.7
 BDE .8558 BRA 1.5886 BC3 .1330 FSP -219 SG1 1411.2 SG2 446.8 THA 2.23 EL1 715.7 EL2 258.1 ALF 30.68

LAUNCH DATE DEC 24 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 30 1969

HELIOCENTRIC CONIC

DISTANCE 224.783
 RL 147.14 LAL .00 LOL 92.26 VL 24.705 GAL 8.81 AZL 86.75 MCA 90.79 SMA 111.19 ECC .35436 INC 3.2525 V1 30.279
 RP 107.75 LAP 3.25 LOP 183.05 VP 35.632 GAP -20.68 AZP 90.05 TAL 163.20 TAP 253.99 RCA 71.79 APO 150.58 V2 35.169
 RC 44.357 GL 11.10 GP 2.39 ZAL 57.45 ZAP 8.52 ETS 197.61 ZAE 164.49 ETE 213.98 ZAC 104.69 ETC 166.04 CLP 8.18

PLANETOCENTRIC CONIC

C3 51.782 VHL 7.196 DLA 23.79 RAL 29.19 RAD 6568.9 VEL 13.158 PTH 2.40 VHP 12.914 DPA 3.79 RAP 10.55 ECC 1.8522
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 28 28 3306.74 -24.44 118.12 276.79 75.24 4 23 35 2706.7 -26.23 109.91
 90.00 22 44 26 4239.59 1.32 174.19 266.53 61.71 23 55 6 3639.6 -2.48 167.56
 100.00 5 9 3 2982.43 -26.84 94.94 277.46 76.32 5 58 46 2382.4 -28.45 86.51
 100.00 23 46 32 4039.14 3.48 158.26 265.33 60.29 24 53 51 3439.1 -1.50 151.73
 110.00 6 55 36 2649.11 -32.52 71.06 278.90 78.83 7 39 45 2049.1 -33.72 62.03
 110.00 0 20 25 3945.21 8.44 148.09 262.28 56.75 1 26 10 3345.2 4.01 141.81

DIFFERENTIAL CORRECTIONS

TDE -.6516 TRA-1.5675 TC3 -.1093 BAU .0857 SGT 1467.8 SGR 445.5 SG3 93.8 ST 660.8 SR 424.8 SS 592.4
 RDE -.5319 RRA .1265 RC3 -.0580 FAU .01978 RRT .1264 RRF -.1291 RTF -.8387 CRT .7346 CRS .8338 CST .9864
 FDE .5830 FRA .9857 FC3 -.3307 BSP 4591 SGB 1533.9 R23 -.0126 R13 -.8389 LSA 949.7 MSA 256.8 SSA 15.8
 BDE .8411 BRA 1.5726 BC3 .1238 FSP -241 SG1 1469.0 SG2 441.6 THA 2.42 EL1 742.5 EL2 256.5 ALF 29.08

LAUNCH DATE DEC 24 1968

FLIGHT TIME 98.00

ARRIVAL DATE APR 1 1969

HELIOCENTRIC CONIC

DISTANCE 231.492
 RL 147.14 LAL .00 LOL 92.26 VL 24.968 GAL 8.36 AZL 86.80 MCA 94.02 SMA 112.42 ECC .33841 INC 3.2001 V1 30.279
 RP 107.79 LAP 3.19 LOP 186.28 VP 35.805 GAP -19.64 AZP 90.22 TAL 162.91 TAP 256.94 RCA 74.37 APO 150.46 V2 35.158
 RC 43.625 GL 11.57 GP 2.54 ZAL 57.26 ZAP 7.18 ETS 202.13 ZAE 166.81 ETE 219.79 ZAC 106.35 ETC 165.89 CLP 6.72

PLANETOCENTRIC CONIC

C3 47.255 VHL 6.874 DLA 24.32 RAL 29.27 RAD 6568.8 VEL 12.985 PTH 2.37 VHP 12.329 DPA 4.66 RAP 12.10 ECC 1.7777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 20 19 3313.43 -24.33 118.58 275.22 75.04 4 15 32 2713.4 -26.15 110.38
 90.00 22 53 13 4187.24 -1.37 171.27 265.59 61.69 24 3 0 3587.2 -4.16 164.63
 100.00 5 2 19 2984.57 -26.80 95.09 275.93 76.25 5 52 3 2384.6 -28.43 86.66
 100.00 23 53 54 3991.34 1.86 155.63 264.35 60.16 25 0 25 3391.3 -2.12 149.11
 110.00 6 50 55 2644.80 -32.57 70.74 277.38 79.01 7 34 59 2044.8 -33.75 61.70
 110.00 0 25 43 3903.87 6.89 145.89 261.24 56.44 1 30 47 3303.9 2.43 139.65

DIFFERENTIAL CORRECTIONS

TDE -.6564 TRA-1.5511 TC3 -.0941 BAU .0706 SGT 1526.1 SGR 440.6 SG3 102.4 ST 693.2 SR 421.9 SS 620.5
 RDE -.9048 RRA .1105 RC3 -.0602 FAU .02073 RRT .1450 RRF -.1481 RTF -.8491 CRT .7431 CRS .8396 CST .9867
 FDE .6126 FRA 1.0198 FC3 -.3799 BSP 4813 SGB 1588.4 R23 -.0142 R13 -.8494 LSA 989.3 MSA 254.0 SSA 15.9
 BDE .8281 BRA 1.5551 BC3 .1118 FSP -267 SG1 1527.6 SG2 435.5 THA 2.61 EL1 770.7 EL2 253.9 ALF 27.58

LAUNCH DATE DEC 24 1968

FLIGHT TIME 100.00

ARRIVAL DATE APR 3 1969

HELIOCENTRIC CONIC

DISTANCE 238.217
 RL 147.14 LAL .00 LOL 92.26 VL 25.213 GAL 7.93 AZL 86.85 MCA 97.25 SMA 113.60 ECC .32333 INC 3.1474 V1 30.279
 RP 107.82 LAP 3.12 LOP 189.52 VP 35.965 GAP -18.65 AZP 90.40 TAL 162.67 TAP 259.92 RCA 76.87 APO 150.33 V2 35.147
 RC 43.055 GL 12.05 GP 2.71 ZAL 57.13 ZAP 5.90 ETS 208.84 ZAE 169.06 ETE 228.07 ZAC 107.99 ETC 165.71 CLP 5.24

PLANETOCENTRIC CONIC

C3 43.164 VHL 6.570 DLA 24.83 RAL 29.28 RAD 6568.6 VEL 12.827 PTH 2.34 VHP 11.763 DPA 5.53 RAP 13.63 ECC 1.7104
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 11 43 3320.57 -24.20 119.07 273.58 74.83 4 7 4 2720.6 -26.05 110.88
 90.00 23 1 54 4134.60 -2.07 168.33 264.61 61.75 24 10 48 3534.6 -5.83 161.67
 100.00 4 55 17 2986.64 -26.77 95.23 274.32 76.18 5 45 4 2386.6 -28.41 86.81
 100.00 0 4 56 3943.76 .25 153.02 263.32 60.11 1 10 40 3343.8 -3.73 146.49
 110.00 6 46 3 2640.09 -32.63 70.38 275.79 79.21 7 30 4 2040.1 -33.78 61.34
 110.00 0 30 40 3863.08 5.35 143.74 260.15 56.19 1 35 3 3263.1 .87 137.52

DIFFERENTIAL CORRECTIONS

TDE -.6622 TRA-1.5334 TC3 -.0754 BAU .0563 SGT 1585.7 SGR 435.2 SG3 111.9 ST 727.3 SR 418.6 SS 650.4
 RDE -.4789 RRA .0950 RC3 -.0619 FAU .02179 RRT .1663 RRF -.1697 RTF -.8589 CRT .7526 CRS .8460 CST .9872
 FDE .6451 FRA 1.0562 FC3 -.4371 BSP 5028 SGB 1644.3 R23 -.0158 R13 -.8592 LSA 1031.6 MSA 250.3 SSA 16.0
 BDE .8172 BRA 1.5363 BC3 .0975 FSP -295 SG1 1587.5 SG2 428.6 THA 2.82 EL1 800.9 EL2 250.3 ALF 26.17

LAUNCH DATE DEC 24 1968

FLIGHT TIME 102.00

ARRIVAL DATE APR 5 1969

HELIOCENTRIC CONIC

DISTANCE 244.955

RL 147.14 LAL .00 LOL 92.26 VL 25.440 GAL 7.52 AZL 86.91 MCA 100.48 SMA 114.73 ECC .30909 INC 3.0939 V1 30.279
 RP 107.86 LAP 3.04 LOP 192.75 VP 36.114 GAP -17.68 AZP 90.56 TAL 162.48 TAP 262.96 RCA 79.27 APO 150.19 V2 35.135
 RC 42.657 GL 12.51 GP 2.89 ZAL 57.07 ZAP 4.73 ETS 219.29 ZAE 171.06 ETE 240.33 ZAC 109.60 ETC 165.49 CLP 3.75

PLANETOCENTRIC CONIC

C3 39.468 VHL 6.282 DLA 25.32 RAL 29.23 RAD 6568.5 VEL 12.682 PTH 2.30 VHP 11.217 DPA 6.41 RAP 15.14 ECC 1.6495
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 42 3328.21 -24.06 119.58 271.87 74.61 3 58 10 2728.2 -25.94 111.42
 90.00 23 10 30 4081.79 -3.77 165.38 263.60 61.91 24 18 32 3481.8 -7.50 158.68
 100.00 4 48 2 2988.61 -26.74 95.37 272.65 76.11 5 37 51 2388.6 -28.38 86.95
 100.00 0 11 47 3896.62 -1.35 150.44 262.25 60.14 1 16 43 3296.6 -5.31 143.89
 110.00 6 41 4 2634.96 -32.70 70.00 274.13 79.43 7 24 59 2035.0 -33.81 60.94
 110.00 0 35 14 3823.04 3.83 141.64 259.03 56.01 1 38 57 3223.0 -66 135.43

DIFFERENTIAL CORRECTIONS

TDE -.6682 TRA-1.5145 TC3 -.0523 BAU .0431
 ROE -.4542 RRA .0798 RC3 -.0628 FAU .02298
 FDE .6804 FRA 1.0949 FC3 -.5040 BSP 5247
 BOE .8080 BRA 1.5166 BC3 .0817 FSP -326

MID-COURSE EXECUTION ACCURACY

SGT 1646.3 SGR 429.3 SG3 122.4
 RRT .1903 RRF -.1942 RTF -.8681
 SGB 1701.4 R23 -.0177 R13 -.8685
 SG1 1648.5 SG2 420.9 THA 3.04

ORBIT DETERMINATION ACCURACY

ST 762.6 SR 414.9 SS 682.0
 CRT .7628 CRS .8527 CST .9877
 LSA 1076.2 MSA 245.9 SSA 16.0
 EL1 832.7 EL2 245.7 ALF 24.85

LAUNCH DATE DEC 24 1968

FLIGHT TIME 104.00

ARRIVAL DATE APR 7 1969

HELIOCENTRIC CONIC

DISTANCE 251.703

RL 147.14 LAL .00 LOL 92.26 VL 25.651 GAL 7.12 AZL 86.96 MCA 103.70 SMA 115.81 ECC .29566 INC 3.0393 V1 30.279
 RP 107.89 LAP 2.95 LOP 195.97 VP 36.251 GAP -16.76 AZP 90.72 TAL 162.33 TAP 266.03 RCA 81.57 APO 150.05 V2 35.123
 RC 42.436 GL 12.98 GP 3.10 ZAL 57.07 ZAP 3.82 ETS 235.97 ZAE 172.53 ETE 258.37 ZAC 111.18 ETC 165.23 CLP 2.23

PLANETOCENTRIC CONIC

C3 36.130 VHL 6.011 DLA 25.77 RAL 29.12 RAD 6568.4 VEL 12.550 PTH 2.27 VHP 10.691 DPA 7.30 RAP 16.62 ECC 1.5946
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 53 18 3336.35 -23.91 120.13 270.10 74.37 3 48 54 2736.4 -25.83 111.99
 90.00 23 19 0 4028.99 -5.46 162.42 262.54 62.17 24 26 9 3429.0 -9.14 155.67
 100.00 4 40 37 2990.37 -26.71 95.49 270.92 76.05 5 30 27 2390.4 -28.36 87.08
 100.00 0 18 18 3850.20 -2.92 147.89 261.14 60.24 1 22 28 3250.2 -6.86 141.31
 110.00 6 36 1 2629.34 -32.77 69.57 272.42 79.68 7 19 50 2029.3 -33.85 60.50
 110.00 0 39 24 3784.00 2.34 139.60 257.87 55.89 1 42 28 3184.0 -2.15 133.39

DIFFERENTIAL CORRECTIONS

TDE -.6742 TRA-1.4934 TC3 -.0243 BAU .0325
 ROE -.4307 RRA .0651 RC3 -.0627 FAU .02429
 FDE .7190 FRA 1.1361 FC3 -.5821 BSP 5466
 BOE .8000 BRA 1.4948 BC3 .0672 FSP -361

MID-COURSE EXECUTION ACCURACY

SGT 1706.6 SGR 423.0 SG3 134.0
 RRT .2176 RRF -.2221 RTF -.8768
 SGB 1758.3 R23 -.0200 R13 -.8772
 SG1 1709.3 SG2 412.3 THA 3.28

ORBIT DETERMINATION ACCURACY

ST 798.7 SR 411.1 SS 715.6
 CRT .7737 CRS .8598 CST .9882
 LSA 1122.8 MSA 240.8 SSA 16.1
 EL1 865.5 EL2 240.3 ALF 23.65

LAUNCH DATE DEC 24 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 9 1969

HELIOCENTRIC CONIC

DISTANCE 258.457

RL 147.14 LAL .00 LOL 92.26 VL 25.847 GAL 6.74 AZL 87.02 MCA 106.92 SMA 116.84 ECC .28304 INC 2.9833 V1 30.279
 RP 107.93 LAP 2.85 LOP 199.20 VP 36.378 GAP -15.86 AZP 90.87 TAL 162.23 TAP 269.15 RCA 83.77 APO 149.91 V2 35.111
 RC 42.394 GL 13.42 GP 3.33 ZAL 57.13 ZAP 3.40 ETS 260.11 ZAE 173.07 ETE 281.73 ZAC 112.72 ETC 164.94 CLP .69

PLANETOCENTRIC CONIC

C3 33.117 VHL 5.755 DLA 26.19 RAL 28.95 RAD 6568.3 VEL 12.429 PTH 2.25 VHP 10.183 DPA 8.20 RAP 18.07 ECC 1.5450
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 43 34 3344.93 -23.76 120.71 268.28 74.12 3 39 19 2744.9 -25.71 112.59
 90.00 23 27 21 3976.44 -7.12 159.45 261.45 62.52 24 33 38 3376.4 -10.74 152.65
 100.00 4 33 7 2991.78 -26.69 95.59 269.14 76.01 5 22 59 2391.8 -28.35 87.18
 100.00 0 24 25 3804.83 -4.45 145.39 259.99 60.41 1 27 50 3204.8 -8.36 138.78
 110.00 6 30 56 2623.15 -32.84 69.11 270.65 79.94 7 14 39 2023.2 -33.88 60.02
 110.00 0 43 6 3746.22 .90 137.62 256.67 55.83 1 45 32 3146.2 -3.59 131.42

DIFFERENTIAL CORRECTIONS

TDE -.6817 TRA-1.4721 TC3 .0083 BAU .0274
 ROE -.4086 RRA .0507 RC3 -.0613 FAU .02576
 FDE .7613 FRA 1.1807 FC3 -.6734 BSP 5661
 BOE .7947 BRA 1.4730 BC3 .0619 FSP -399

MID-COURSE EXECUTION ACCURACY

SGT 1768.8 SGR 416.7 SG3 146.9
 RRT .2491 RRF -.2541 RTF -.8849
 SGB 1817.2 R23 -.0223 R13 -.8853
 SG1 1772.0 SG2 402.8 THA 3.54

ORBIT DETERMINATION ACCURACY

ST 837.1 SR 407.2 SS 751.5
 CRT .7858 CRS .8675 CST .9889
 LSA 1172.9 MSA 235.0 SSA 16.2
 EL1 901.0 EL2 234.0 ALF 22.52

LAUNCH DATE DEC 24 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 11 1969

HELIOCENTRIC CONIC

DISTANCE 265.213

RL 147.14 LAL .00 LOL 92.26 VL 26.029 GAL 6.38 AZL 87.07 MCA 110.14 SMA 117.82 ECC .27118 INC 2.9253 V1 30.279
 RP 107.97 LAP 2.75 LOP 202.42 VP 36.496 GAP -15.00 AZP 91.01 TAL 162.18 TAP 272.32 RCA 85.87 APO 149.77 V2 35.099
 RC 42.534 GL 13.85 GP 3.59 ZAL 57.25 ZAP 3.70 ETS 285.69 ZAE 172.48 ETE 304.71 ZAC 114.22 ETC 164.60 CLP -.88

PLANETOCENTRIC CONIC

C3 30.397 VHL 5.513 DLA 26.57 RAL 28.72 RAD 6568.2 VEL 12.319 PTH 2.22 VHP 9.693 DPA 9.11 RAP 19.49 ECC 1.5003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 33 37 3353.77 -23.59 121.31 266.41 73.87 3 29 30 2753.8 -25.58 113.20
 90.00 23 35 30 3924.49 -8.74 156.49 260.32 62.96 24 40 54 3324.5 -12.30 149.62
 100.00 4 25 39 2992.55 -26.67 95.65 267.33 75.98 5 15 32 2392.6 -28.34 87.24
 100.00 0 30 4 3760.94 -5.92 142.96 258.79 60.65 1 32 45 3160.9 -9.79 136.30
 110.00 6 25 55 2616.25 -32.92 68.58 268.84 80.24 7 9 31 2016.3 -33.92 59.49
 110.00 0 46 18 3710.00 -.49 135.74 255.43 55.82 1 48 8 3110.0 -4.97 129.52

DIFFERENTIAL CORRECTIONS

TDE -.6863 TRA-1.4476 TC3 .0472 BAU .0305
 ROE -.3878 RRA .0365 RC3 -.0584 FAU .02740
 FDE .8076 FRA 1.2287 FC3 -.7803 BSP 5898
 BOE .7883 BRA 1.4481 BC3 .0750 FSP -442

MID-COURSE EXECUTION ACCURACY

SGT 1827.8 SGR 410.3 SG3 161.3
 RRT .2838 RRF -.2904 RTF -.8926
 SGB 1873.3 R23 -.0259 R13 -.8931
 SG1 1831.7 SG2 392.6 THA 3.82

ORBIT DETERMINATION ACCURACY

ST 873.7 SR 403.2 SS 789.4
 CRT .7977 CRS .8755 CST .9893
 LSA 1223.3 MSA 229.0 SSA 16.2
 EL1 935.1 EL2 227.2 ALF 21.55

LAUNCH DATE DEC 24 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 13 1969

DISTANCE 271.969

MELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 26.197 GAL 6.04 AZL 87.13 MCA 113.36 SMA 118.74 ECC .26007 INC 2.8650 V1 30.279
 RP 108.01 LAP 2.63 LOP 205.64 VP 36.604 GAP -14.17 AZP 91.14 TAL 162.16 TAP 275.52 RCA 87.86 APO 149.62 V2 35.086
 RC 42.853 GL 14.26 GP 3.89 ZAL 57.43 ZAP 4.61 ETS 304.63 ZAE 171.04 ETE 322.14 ZAC 115.66 ETC 164.22 CLP -2.48

PLANETOCENTRIC CONIC
 C3 27.942 VHL 5.286 OLA 26.91 RAL 28.44 RAD 6568.1 VEL 12.220 PTH 2.20 VHP 9.221 DPA 10.03 RAP 20.86 ECC 1.4599
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 23 35 3362.47 -23.42 121.89 264.52 73.62 3 19 37 2762.5 -25.45 113.80
 90.00 23 43 19 3873.67 -10.30 153.57 259.14 63.48 24 47 52 3273.7 -13.78 146.62
 100.00 4 18 24 2992.32 -26.68 95.63 265.49 75.99 5 8 16 2392.3 -28.34 87.22
 100.00 0 35 6 3719.05 -7.31 140.63 257.55 60.94 1 37 5 3119.1 -11.13 133.92
 110.00 6 21 4 2608.45 -33.01 67.99 267.01 80.58 7 4 33 2008.4 -33.96 58.88
 110.00 0 48 55 3675.69 -1.80 133.95 254.15 55.86 1 50 11 3075.7 -6.27 127.71

DIFFERENTIAL CORRECTIONS
 TDE -.6927 TRA-1.4231 TC3 .0909 BAU .0394 SGT 1888.2 SGR 404.4 SG3 177.2 ST 912.7 SR 399.6 SS 829.8
 RDE -.3686 RRA .0224 RC3 -.0535 FAU .02922 RRT .3241 RRF -.3319 RTF -.8997 CRT .8108 CRS .8839 CST .9900
 FDE .8584 FRA 1.2811 FC3 -.9052 BSP 6105 SGB 1931.1 R23 -.0295 R13 -.9003 LSA 1277.4 MSA 222.3 SSA 16.3
 BDE .7847 BRA 1.4233 BC3 .1055 FSP -489 SGI 1893.0 SG2 381.6 THA 4.14 EL1 971.9 EL2 219.7 ALF 20.65

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 24 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 15 1969

DISTANCE 278.722

MELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 26.353 GAL 5.72 AZL 87.20 MCA 116.57 SMA 119.62 ECC .24968 INC 2.8017 V1 30.279
 RP 108.05 LAP 2.51 LOP 208.85 VP 36.703 GAP -13.37 AZP 91.25 TAL 162.19 TAP 278.77 RCA 89.75 APO 149.48 V2 35.073
 RC 43.347 GL 14.64 GP 4.22 ZAL 57.65 ZAP 5.90 ETS 316.53 ZAE 169.16 ETE 334.05 ZAC 117.05 ETC 163.78 CLP -4.13

PLANETOCENTRIC CONIC
 C3 25.728 VHL 5.072 OLA 27.20 RAL 28.11 RAD 6568.0 VEL 12.129 PTH 2.17 VHP 8.767 DPA 10.97 RAP 22.17 ECC 1.4234
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 13 44 3370.34 -23.27 122.42 262.61 73.40 3 9 54 2770.3 -25.33 114.35
 90.00 23 50 34 3824.81 -11.77 190.73 257.92 64.06 24 54 19 3224.8 -15.16 143.70
 100.00 4 11 33 2990.53 -26.71 95.50 263.64 76.05 5 1 23 2390.5 -28.36 87.09
 100.00 0 39 22 3679.85 -8.60 138.43 256.26 61.26 1 40 42 3079.8 -12.37 131.67
 110.00 6 16 31 2599.50 -33.11 67.31 265.14 80.97 6 59 50 1999.5 -34.00 58.19
 110.00 0 50 54 3643.64 -3.02 132.27 252.84 55.93 1 51 37 3043.6 -7.48 126.01

DIFFERENTIAL CORRECTIONS
 TDE -.6978 TRA-1.3968 TC3 .1415 BAU .0512 SGT 1946.6 SGR 399.2 SG3 195.0 ST 951.1 SR 396.4 SS 872.3
 RDE -.3509 RRA .0083 RC3 -.0461 FAU .03127 RRT .3694 RRF -.3788 RTF -.9064 CRT .8243 CRS .8926 CST .9906
 FDE .9137 FRA 1.3380 FC3 -1.0522 BSP 6326 SGB 1987.1 R23 -.0339 R13 -.9070 LSA 1332.7 MSA 215.2 SSA 16.3
 BDE .7811 BRA 1.3969 BC3 .1488 FSP -543 SGI 1952.4 SG2 369.9 THA 4.49 EL1 1008.4 EL2 211.7 ALF 19.87

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 24 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 17 1969

DISTANCE 285.469

MELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 26.496 GAL 5.41 AZL 87.27 MCA 119.78 SMA 120.44 ECC .23999 INC 2.7348 V1 30.279
 RP 108.09 LAP 2.37 LOP 212.07 VP 36.793 GAP -12.60 AZP 91.36 TAL 162.27 TAP 282.05 RCA 91.54 APO 149.35 V2 35.060
 RC 44.011 GL 14.97 GP 4.61 ZAL 57.92 ZAP 7.42 ETS 323.94 ZAE 167.11 ETE 342.31 ZAC 118.36 ETC 163.29 CLP -5.82

PLANETOCENTRIC CONIC
 C3 23.730 VHL 4.871 OLA 27.44 RAL 27.75 RAD 6568.0 VEL 12.046 PTH 2.15 VHP 8.330 DPA 11.93 RAP 23.43 ECC 1.3905
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 30 3376.15 -23.16 122.81 260.71 73.23 3 0 46 2776.1 -25.24 114.75
 90.00 0 4 50 3779.23 -13.11 148.06 256.64 64.67 1 3 49 3179.2 -16.41 140.94
 100.00 4 5 23 2986.47 -26.77 95.22 261.80 76.18 4 55 9 2386.5 -28.41 86.80
 100.00 0 42 38 3644.15 -9.77 136.42 254.92 61.61 1 43 22 3044.1 -13.48 129.60
 110.00 6 12 22 2589.09 -33.22 66.52 263.27 81.43 6 55 31 1989.1 -34.05 57.38
 110.00 0 52 9 3614.29 -4.14 130.73 251.49 56.04 1 52 23 3014.3 -8.57 124.45

DIFFERENTIAL CORRECTIONS
 TDE -.7022 TRA-1.3696 TC3 .1983 BAU .0639 SGT 2003.6 SGR 395.4 SG3 214.8 ST 989.3 SR 393.8 SS 917.3
 RDE -.3348 RRA -.0060 RC3 -.0357 FAU .03356 RRT .4203 RRF -.4318 RTF -.9126 CRT .8381 CRS .9016 CST .9912
 FDE .9742 FRA 1.4006 FC3 -1.2244 BSP 6533 SGB 2042.2 R23 -.0392 R13 -.9133 LSA 1389.9 MSA 207.8 SSA 16.2
 BDE .7779 BRA 1.3697 BC3 .2014 FSP -604 SGI 2010.7 SG2 357.5 THA 4.90 EL1 1045.2 EL2 203.3 ALF 19.21

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 24 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 19 1969

DISTANCE 292.208

MELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 26.629 GAL 5.12 AZL 87.34 MCA 122.99 SMA 121.22 ECC .23096 INC 2.6635 V1 30.279
 RP 108.13 LAP 2.23 LOP 215.28 VP 36.876 GAP -11.85 AZP 91.45 TAL 162.38 TAP 285.37 RCA 93.22 APO 149.21 V2 35.047
 RC 44.838 GL 15.26 GP 5.05 ZAL 58.23 ZAP 9.09 ETS 328.73 ZAE 165.06 ETE 348.36 ZAC 119.59 ETC 162.74 CLP -7.57

PLANETOCENTRIC CONIC
 C3 21.927 VHL 4.683 OLA 27.61 RAL 27.36 RAD 6567.9 VEL 11.971 PTH 2.13 VHP 7.909 DPA 12.92 RAP 24.62 ECC 1.3609
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 56 34 3377.85 -23.12 122.92 258.84 73.19 2 52 52 2777.9 -25.21 114.87
 90.00 0 5 37 3739.08 -14.27 145.68 255.30 65.28 1 7 56 3139.1 -17.48 138.48
 100.00 4 0 13 2979.23 -26.89 94.71 259.97 76.43 4 49 53 2379.2 -28.49 86.28
 100.00 0 44 39 3612.94 -10.77 134.65 253.52 61.95 1 44 52 3012.9 -14.44 127.78
 110.00 6 8 48 2576.86 -33.34 65.59 261.39 81.97 6 51 44 1976.9 -34.09 56.42
 110.00 0 52 34 3588.07 -5.14 129.36 250.11 56.16 1 52 22 2988.1 -9.55 123.04

DIFFERENTIAL CORRECTIONS
 TDE -.7054 TRA-1.3413 TC3 .2612 BAU .0768 SGT 2057.9 SGR 393.7 SG3 237.0 ST 1026.5 SR 392.2 SS 964.4
 RDE -.3205 RRA -.0206 RC3 -.0217 FAU .03613 RRT .4767 RRF -.4906 RTF -.9184 CRT .8524 CRS .9109 CST .9919
 FDE 1.0400 FRA 1.4695 FC3 -1.4265 BSP 6730 SGB 2095.2 R23 -.0456 R13 -.9192 LSA 1448.2 MSA 200.1 SSA 16.2
 BDE .7748 BRA 1.3414 BC3 .2621 FSP -671 SGI 2066.7 SG2 344.6 THA 5.36 EL1 1081.5 EL2 194.7 ALF 18.67

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE DEC 24 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 298.936

RL 147.14 LAL .00 LOL 92.26 VL 26.751 GAL 4.85 AZL 87.41 MCA 126.20 SMA 121.94 ECC .22258 INC 2.5868 V1 30.279
 RP 108.17 LAP 2.09 LOP 218.48 VP 36.952 GAP -11.13 AZP 91.53 TAL 162.52 TAP 288.72 RCA 94.80 APO 149.08 V2 35.033
 RC 45.818 GL 15.49 GP 5.56 ZAL 58.57 ZAP 10.89 ETS 331.92 ZAE 163.10 ETE 353.08 ZAC 120.73 ETC 162.12 CLP -9.38

PLANETOCENTRIC CONIC

C3 20.299 VHL 4.505 OLA 27.71 RAL 26.94 RAD 6567.8 VEL 11.903 PTH 2.11 VHP 7.506 DPA 13.94 RAP 25.73 ECC 1.3341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 54 3372.46 -23.23 122.56 257.04 73.34 2 47 7 2772.5 -25.29 114.50
 90.00 0 7 58 3707.41 -15.16 143.78 253.85 65.79 1 9 45 3107.4 -18.30 136.52
 100.00 3 56 27 2967.75 -27.07 93.91 258.17 76.81 4 45 54 2367.7 -28.62 85.45
 100.00 0 45 7 3587.35 -11.59 133.18 252.07 62.25 1 44 54 2987.4 -15.21 126.27
 110.00 6 5 59 2562.37 -33.47 64.48 259.51 82.62 6 48 41 1962.4 -34.13 55.29
 110.00 0 52 4 3565.49 -5.99 128.17 248.70 56.28 1 51 30 2965.5 -10.38 121.83

DIFFERENTIAL CORRECTIONS

TDE -.7048 TRA-1.3101 TC3 .3344 BAU .0907
 RDE -.3079 RRA -.0358 RC3 -.0029 FAU .03905
 FDE 1.1103 FRA 1.5452 FC3-1.6656 BSP 6967
 BDE .7691 BRA 1.3106 BC3 .3344 FSP -749

MID-COURSE EXECUTION ACCURACY

SGT 2106.1 SGR 394.9 SG3 261.7
 RRT .5374 RRF -.5544 RTF -.9241
 SGB 2142.8 R23 -.0336 R13 -.9251
 SG1 2117.1 SG2 331.4 THA 5.90

ORBIT DETERMINATION ACCURACY

ST 1059.3 SR 391.9 SS 1012.8
 CRT .8664 CRS .9202 CST .9924
 LSA 1504.7 MSA 192.5 SSA 16.1
 EL1 1114.1 EL2 186.1 ALF 18.30

LAUNCH DATE DEC 24 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 305.652

RL 147.14 LAL .00 LOL 92.26 VL 26.863 GAL 4.59 AZL 87.50 MCA 129.40 SMA 122.62 ECC .21481 INC 2.5037 V1 30.279
 RP 108.21 LAP 1.93 LOP 221.69 VP 37.021 GAP -10.43 AZP 91.59 TAL 162.70 TAP 292.11 RCA 96.28 APO 148.96 V2 35.020
 RC 46.944 GL 15.64 GP 6.15 ZAL 58.93 ZAP 12.80 ETS 334.08 ZAE 161.27 ETE 357.01 ZAC 121.76 ETC 161.43 CLP -11.25

PLANETOCENTRIC CONIC

C3 18.828 VHL 4.339 OLA 27.72 RAL 26.52 RAD 6567.8 VEL 11.841 PTH 2.10 VHP 7.119 DPA 15.00 RAP 26.74 ECC 1.3099
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 48 37 3356.59 -23.54 121.50 255.33 73.79 2 44 33 2756.6 -25.54 113.40
 90.00 0 6 52 3687.63 -15.71 142.59 252.30 66.13 1 8 20 3087.6 -18.80 135.28
 100.00 3 54 27 2950.94 -27.33 92.73 256.41 77.39 4 43 38 2350.9 -28.79 84.23
 100.00 0 43 43 3568.51 -12.18 132.10 250.56 62.49 1 43 12 2968.5 -15.77 125.15
 110.00 6 4 7 2545.13 -33.61 63.15 257.65 83.39 6 46 32 1945.1 -34.16 53.95
 110.00 0 50 32 3547.09 -6.89 127.20 247.27 56.40 1 49 39 2947.1 -11.06 120.83

DIFFERENTIAL CORRECTIONS

TDE -.7045 TRA-1.2807 TC3 .4078 BAU .1028
 RDE -.2974 RRA -.0521 RC3 .0213 FAU .04225
 FDE 1.1874 FRA 1.6309 FC3-1.9428 BSP 7136
 BDE .7647 BRA 1.2817 BC3 .4084 FSP -834

MID-COURSE EXECUTION ACCURACY

SGT 2154.0 SGR 400.8 SG3 289.4
 RRT .6027 RRF -.6227 RTF -.9290
 SGB 2191.0 R23 -.0632 R13 -.9302
 SG1 2167.8 SG2 317.8 THA 6.54

ORBIT DETERMINATION ACCURACY

ST 1092.7 SR 393.4 SS 1064.1
 CRT .8809 CRS .9296 CST .9930
 LSA 1564.2 MSA 184.5 SSA 16.0
 EL1 1147.7 EL2 177.2 ALF 18.04

LAUNCH DATE DEC 24 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 312.355

RL 147.14 LAL .00 LOL 92.26 VL 26.966 GAL 4.35 AZL 87.59 MCA 132.61 SMA 123.25 ECC .20764 INC 2.4126 V1 30.279
 RP 108.25 LAP 1.78 LOP 224.89 VP 37.083 GAP -9.76 AZP 91.63 TAL 162.91 TAP 295.52 RCA 97.66 APO 148.84 V2 35.007
 RC 48.205 GL 15.70 GP 6.84 ZAL 59.31 ZAP 14.85 ETS 335.53 ZAE 159.61 ETE .49 ZAC 122.66 ETC 160.65 CLP -13.21

PLANETOCENTRIC CONIC

C3 17.499 VHL 4.183 OLA 27.64 RAL 26.09 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 6.748 DPA 16.12 RAP 27.64 ECC 1.2880
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 24 3328.08 -24.07 119.57 253.74 74.61 2 45 52 2728.1 -25.95 111.41
 90.00 0 1 42 3681.93 -15.86 142.24 250.64 66.23 1 3 4 3081.9 -18.94 134.92
 100.00 3 54 35 2927.78 -27.66 91.08 254.71 78.19 4 43 23 2327.8 -29.01 82.54
 100.00 0 40 13 3557.46 -12.53 131.46 248.99 62.64 1 39 31 2957.5 -16.10 124.49
 110.00 6 3 25 2524.56 -33.76 61.56 255.80 84.32 6 45 30 1924.6 -34.18 52.34
 110.00 0 47 52 3533.44 -7.20 126.47 245.82 56.49 1 46 45 2933.4 -11.56 120.09

DIFFERENTIAL CORRECTIONS

TDE -.7015 TRA-1.2504 TC3 .4875 BAU .1147
 RDE -.2891 RRA -.0697 RC3 .0526 FAU .04586
 FDE 1.2696 FRA 1.7269 FC3-2.2690 BSP 7291
 BDE .7587 BRA 1.2523 BC3 .4903 FSP -928

MID-COURSE EXECUTION ACCURACY

SGT 2197.1 SGR 412.7 SG3 320.5
 RRT .6692 RRF -.6925 RTF -.9335
 SGB 2235.5 R23 -.0747 R13 -.9350
 SG1 2214.7 SG2 304.3 THA 7.30

ORBIT DETERMINATION ACCURACY

ST 1122.4 SR 397.3 SS 1116.8
 CRT .8953 CRS .9390 CST .9936
 LSA 1622.8 MSA 176.5 SSA 15.9
 EL1 1178.6 EL2 168.5 ALF 17.96

LAUNCH DATE DEC 24 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 319.042

RL 147.14 LAL .00 LOL 92.26 VL 27.060 GAL 4.13 AZL 87.69 MCA 135.81 SMA 123.83 ECC .20102 INC 2.3118 V1 30.279
 RP 108.29 LAP 1.61 LOP 228.09 VP 37.139 GAP -9.11 AZP 91.66 TAL 163.14 TAP 298.95 RCA 98.94 APO 148.73 V2 34.994
 RC 49.590 GL 15.65 GP 7.65 ZAL 59.71 ZAP 17.03 ETS 336.47 ZAE 158.13 ETE 3.76 ZAC 123.41 ETC 159.79 CLP -15.26

PLANETOCENTRIC CONIC

C3 16.294 VHL 4.037 OLA 27.44 RAL 25.69 RAD 6567.7 VEL 11.734 PTH 2.07 VHP 6.395 DPA 17.31 RAP 28.41 ECC 1.2682
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 56 16 3287.14 -24.78 116.79 252.25 75.83 2 51 3 2687.1 -26.48 108.53
 90.00 23 48 43 3690.06 -15.64 142.74 248.89 66.09 24 50 13 3090.1 -18.74 135.43
 100.00 3 57 9 2897.43 -28.06 88.92 253.06 79.26 4 45 27 2297.4 -29.26 80.32
 100.00 0 34 26 3555.01 -12.60 131.32 247.39 62.67 1 33 41 2955.0 -16.17 124.34
 110.00 6 4 8 2500.03 -33.91 59.66 253.98 85.43 6 45 48 1900.0 -34.17 50.43
 110.00 0 43 56 3525.17 -7.51 126.03 244.36 56.55 1 42 41 2925.2 -11.86 119.64

DIFFERENTIAL CORRECTIONS

TDE -.6951 TRA-1.2193 TC3 .5703 BAU .1259
 RDE -.2831 RRA -.0893 RC3 .0928 FAU .04988
 FDE 1.3560 FRA 1.8345 FC3-2.6502 BSP 7437
 BDE .7505 BRA 1.2226 BC3 .5778 FSP -1036

MID-COURSE EXECUTION ACCURACY

SGT 2233.4 SGR 433.0 SG3 355.1
 RRT .7337 RRF -.7602 RTF -.9375
 SGB 2275.0 R23 -.0890 R13 -.9393
 SG1 2256.3 SG2 291.2 THA 8.23

ORBIT DETERMINATION ACCURACY

ST 1147.1 SR 404.1 SS 1169.9
 CRT .9094 CRS .9481 CST .9942
 LSA 1679.1 MSA 168.4 SSA 15.7
 EL1 1205.7 EL2 159.9 ALF 18.09

LAUNCH DATE DEC 24 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

RL 147.14 LAL .00 LOL 92.26 VL 27.146 GAL 3.92 AZL 87.80 MCA 139.00 SMA 124.38 ECC .19495 INC 2.1988 VI 30.279
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.189 GAP -8.48 AZP 91.66 TAL 163.39 TAP 302.39 RCA 100.13 APO 148.62 V2 34.980
 RC 51.091 GL 15.46 GP 8.61 ZAL 60.10 ZAP 19.36 ETS 336.99 ZAE 156.85 ETE 7.00 ZAC 123.99 ETC 158.82 CLP -17.41

PLANETOCENTRIC CONIC

C3 15.201 VHL 3.899 OLA 27.10 RAL 25.33 RAD 6567.6 VEL 11.687 PTH 2.06 VHP 6.059 DPA 18.61 RAP 29.02 ECC 1.2502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 40 3235.52 -25.59 113.22 250.83 77.44 2 59 36 2635.5 -27.06 104.87
 90.00 23 36 23 3710.25 -15.08 143.95 247.11 65.75 24 38 13 3110.2 -18.23 136.69
 100.00 4 2 22 2859.30 -28.52 86.18 251.47 80.64 4 50 2 2259.3 -29.52 77.51
 100.00 0 26 18 3561.70 -12.39 131.71 245.77 62.58 1 25 40 2961.7 -15.97 124.74
 110.00 6 6 31 2470.81 -34.05 57.39 252.18 86.77 6 47 42 1870.8 -34.12 48.15
 110.00 0 38 38 3522.95 -7.59 125.92 242.91 56.57 1 37 21 2923.0 -11.94 119.52

DIFFERENTIAL CORRECTIONS

TDE -.6820 TRA-1.1852 TC3 .6625 BAU .1378
 RDE -.2794 RRA -.1115 RC3 .1448 FAU .05446
 FDE 1.4428 FRA 1.9537 FC3-3.1018 BSP 7620
 BDE .7370 BRA 1.1904 BC3 .6781 FSP -1160

MID-COURSE EXECUTION ACCURACY

SGT 2258.2 SGR 463.9 SG3 393.5
 RRT .7921 RRF -.8220 RTF -.9416
 SGB 2305.4 R23 -.1058 R13 -.9439
 SG1 2288.4 SG2 279.4 TMA 9.38

ORBIT DETERMINATION ACCURACY

ST 1161.6 SR 414.4 SS 1220.6
 CRT .9225 CRS .9567 CST .9947
 LSA 1727.7 MSA 160.4 SSA 15.5
 EL1 1223.9 EL2 151.8 ALF 18.51

LAUNCH DATE DEC 24 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

RL 147.14 LAL .00 LOL 92.26 VL 27.225 GAL 3.73 AZL 87.93 MCA 142.20 SMA 124.88 ECC .18939 INC 2.0702 VI 30.279
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.234 GAP -7.87 AZP 91.64 TAL 163.65 TAP 305.85 RCA 101.23 APO 148.53 V2 34.967
 RC 52.697 GL 15.09 GP 9.76 ZAL 60.47 ZAP 21.87 ETS 337.18 ZAE 155.74 ETE 10.39 ZAC 124.35 ETC 157.75 CLP -19.67

PLANETOCENTRIC CONIC

C3 14.207 VHL 3.769 OLA 26.60 RAL 25.02 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 5.741 DPA 20.03 RAP 29.44 ECC 1.2338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 18 9 3174.87 -26.42 108.98 249.46 79.42 3 11 4 2574.9 -27.61 100.51
 90.00 23 21 28 3740.79 -14.22 145.78 245.32 65.25 24 23 49 3140.8 -17.44 138.59
 100.00 4 10 24 2812.98 -28.98 82.81 249.92 82.35 4 57 17 2213.0 -29.74 74.09
 100.00 0 15 50 3577.91 -11.88 132.64 244.14 62.37 1 15 28 2977.9 -15.49 125.71
 110.00 6 10 52 2436.06 -34.15 54.68 250.41 88.37 6 51 28 1836.1 -34.00 45.44
 110.00 0 31 52 3527.59 -7.42 126.16 241.47 56.54 1 30 39 2927.6 -11.77 119.77

DIFFERENTIAL CORRECTIONS

TDE -.6669 TRA-1.1534 TC3 .7474 BAU .1475
 RDE -.2788 RRA -.1376 RC3 .2106 FAU .05939
 FDE 1.5319 FRA 2.0914 FC3-3.6191 BSP 7709
 BDE .7229 BRA 1.1616 BC3 .7765 FSP -1291

MID-COURSE EXECUTION ACCURACY

SGT 2278.2 SGR 509.5 SG3 436.4
 RRT .8424 RRF -.8751 RTF -.9447
 SGB 2334.5 R23 -.1261 R13 -.9477
 SG1 2318.8 SG2 269.7 TMA 10.82

ORBIT DETERMINATION ACCURACY

ST 1172.2 SR 429.7 SS 1271.2
 CRT .9353 CRS .9648 CST .9952
 LSA 1775.2 MSA 152.0 SSA 15.3
 EL1 1240.2 EL2 143.7 ALF 19.19

LAUNCH DATE DEC 24 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

RL 147.14 LAL .00 LOL 92.26 VL 27.296 GAL 3.55 AZL 88.08 MCA 145.39 SMA 125.34 ECC .18433 INC 1.9219 VI 30.279
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.275 GAP -7.28 AZP 91.58 TAL 163.93 TAP 309.32 RCA 102.23 APO 148.44 V2 34.954
 RC 54.398 GL 14.51 GP 11.16 ZAL 60.83 ZAP 24.59 ETS 337.08 ZAE 154.78 ETE 14.08 ZAC 124.47 ETC 156.55 CLP -22.06

PLANETOCENTRIC CONIC

C3 13.300 VHL 3.647 OLA 25.89 RAL 24.80 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 5.443 DPA 21.62 RAP 29.63 ECC 1.2189
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 33 29 3105.89 -27.19 104.07 248.11 81.76 3 25 15 2505.9 -28.05 95.51
 90.00 23 4 23 3780.89 -13.06 148.16 243.58 64.65 24 7 24 3180.9 -16.37 141.04
 100.00 4 21 25 2757.92 -29.42 78.78 248.42 84.43 5 7 23 2157.9 -29.88 70.00
 100.00 0 3 4 3604.09 -11.05 134.14 242.55 62.05 1 3 8 3004.1 -14.71 127.26
 110.00 6 17 30 2394.72 -34.18 51.45 248.68 90.28 6 57 24 1794.7 -33.77 42.23
 110.00 0 23 28 3540.06 -6.95 126.82 240.08 56.45 1 22 28 2940.1 -11.32 120.45

DIFFERENTIAL CORRECTIONS

TDE -.6463 TRA-1.1211 TC3 .8320 BAU .1570
 RDE -.2813 RRA -.1690 RC3 .2958 FAU .06483
 FDE 1.6165 FRA 2.2472 FC3-4.2201 BSP 7785
 BDE .7049 BRA 1.1338 BC3 .8830 FSP -1438

MID-COURSE EXECUTION ACCURACY

SGT 2287.6 SGR 573.6 SG3 483.6
 RRT .8822 RRF -.9173 RTF -.9475
 SGB 2358.4 R23 -.1490 R13 -.9515
 SG1 2343.6 SG2 263.6 TMA 12.64

ORBIT DETERMINATION ACCURACY

ST 1173.2 SR 450.8 SS 1317.1
 CRT .9471 CRS .9720 CST .9958
 LSA 1814.9 MSA 143.3 SSA 15.1
 EL1 1249.5 EL2 135.8 ALF 20.25

LAUNCH DATE DEC 24 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

RL 147.14 LAL .00 LOL 92.26 VL 27.361 GAL 3.39 AZL 88.25 MCA 148.58 SMA 125.75 ECC .17972 INC 1.7477 VI 30.279
 RP 108.45 LAP .91 LOP 240.85 VP 37.310 GAP -6.70 AZP 91.49 TAL 164.20 TAP 312.78 RCA 103.15 APO 148.36 V2 34.942
 RC 56.186 GL 13.64 GP 12.86 ZAL 61.15 ZAP 27.57 ETS 336.70 ZAE 153.92 ETE 18.27 ZAC 124.28 ETC 155.21 CLP -24.59

PLANETOCENTRIC CONIC

C3 12.469 VHL 3.531 OLA 24.93 RAL 24.70 RAD 6567.5 VEL 11.570 PTH 2.02 VHP 5.166 DPA 23.44 RAP 29.55 ECC 1.2052
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 51 46 3028.23 -27.82 98.48 246.78 84.49 3 42 14 2428.2 -28.29 89.85
 90.00 22 45 16 3830.81 -11.59 151.09 241.93 63.98 23 49 7 3230.8 -14.99 144.06
 100.00 4 35 40 2693.27 -29.75 74.00 246.94 86.92 5 20 33 2093.3 -29.86 65.20
 100.00 23 44 4 3641.00 -9.87 136.24 241.03 61.64 24 44 45 3041.0 -13.58 129.42
 110.00 6 26 51 2345.39 -34.10 47.60 246.96 92.56 7 5 56 1745.4 -33.37 38.44
 110.00 0 13 18 3561.64 -6.14 127.97 238.76 56.31 1 12 39 2961.6 -10.52 121.62

DIFFERENTIAL CORRECTIONS

TDE -.6159 TRA-1.0857 TC3 .9196 BAU .1677
 RDE -.2865 RRA -.2073 RC3 .4075 FAU .07084
 FDE 1.6843 FRA 2.4188 FC3-4.9188 BSP 7891
 BDE .6793 BRA 1.1053 BC3 1.0058 FSP -1603

MID-COURSE EXECUTION ACCURACY

SGT 2279.1 SGR 660.7 SG3 534.5
 RRT .9112 RRF -.9482 RTF -.9501
 SGB 2372.9 R23 -.1719 R13 -.9556
 SG1 2358.3 SG2 263.1 TMA 14.99

ORBIT DETERMINATION ACCURACY

ST 1157.1 SR 478.1 SS 1351.3
 CRT .9574 CRS .9782 CST .9963
 LSA 1837.2 MSA 134.3 SSA 14.9
 EL1 1245.3 EL2 128.3 ALF 21.83

LAUNCH DATE DEC 24 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 352.207

RL 147.14 LAL .00 LOL 92.26 VL 27.419 GAL 3.24 AZL 88.46 MCA 151.77 SMA 126.14 ECC .17556 INC 1.5385 V1 30.279
 RP 108.49 LAP .73 LOP 244.03 VP 37.341 GAP -6.15 AZP 91.36 TAL 164.47 TAP 316.24 RCA 103.99 APO 148.28 V2 34.929
 RC 58.051 GL 12.41 GP 14.97 ZAL 61.43 ZAP 30.84 ETS 336.07 ZAE 153.06 ETE 23.14 ZAC 123.71 ETC 153.72 CLP -27.28

PLANETOCENTRIC CONIC

C3 11.706 VHL 3.421 OLA 23.61 RAL 24.76 RAD 6567.4 VEL 11.537 PTH 2.01 VHP 4.914 OPA 25.57 RAP 29.12 ECC 1.1926
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 26 2940.43 -28.23 92.09 245.45 87.67 4 2 26 2340.4 -28.25 83.43
 90.00 22 24 5 3891.94 -9.74 154.62 240.41 63.28 23 28 56 3291.9 -13.25 147.70
 100.00 4 53 35 2617.48 -29.89 68.37 245.49 89.88 5 37 13 2017.5 -29.59 59.58
 100.00 23 26 36 3690.13 -8.27 139.01 239.62 61.17 24 28 6 3090.1 -12.05 132.27
 110.00 6 39 30 2286.15 -33.82 43.00 245.28 95.27 7 17 36 1686.2 -32.72 33.93
 110.00 0 1 7 3594.22 -4.90 129.68 237.56 56.13 1 1 1 2994.2 -9.32 123.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5805 TRA-1.0516 TC3 .9921 BAU .1777 SGT 2258.4 SGR 778.8 SG3 588.6 ST 1130.5 SR 513.8 SS 1374.2
 RDE -.2950 RRA -.2561 RC3 .5530 FAU .07704 RRT .9308 RRF -.9695 RTF -.9518 CRT .9668 CRS .9834 CST .9969
 FDE 1.7314 FRA 2.6130 FC3-5.6981 BSP 7941 SGB 2388.9 R23 -.1930 R13 -.9596 LSA 1847.9 MSA 124.0 SSA 14.9
 BDE .6512 BRA 1.0824 BC3 1.1358 FSP -1774 SG1 2373.5 SG2 270.9 THA 18.04 EL1 1236.0 EL2 120.1 ALF 23.96

LAUNCH DATE DEC 24 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 358.780

RL 147.14 LAL .00 LOL 92.26 VL 27.472 GAL 3.10 AZL 88.72 MCA 154.95 SMA 126.48 ECC .17181 INC 1.2814 V1 30.279
 RP 108.53 LAP .54 LOP 247.21 VP 37.369 GAP -5.61 AZP 91.16 TAL 164.74 TAP 319.69 RCA 104.75 APO 148.21 V2 34.917
 RC 59.985 GL 10.66 GP 17.63 ZAL 61.66 ZAP 34.49 ETS 335.18 ZAE 152.05 ETE 28.89 ZAC 122.67 ETC 152.06 CLP -30.14

PLANETOCENTRIC CONIC

C3 11.005 VHL 3.317 OLA 21.83 RAL 25.03 RAD 6567.4 VEL 11.506 PTH 2.00 VHP 4.693 OPA 28.13 RAP 28.24 ECC 1.1811
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 39 15 2839.68 -28.29 84.72 244.13 91.36 4 26 34 2239.7 -27.80 76.09
 90.00 22 0 26 3967.12 -7.41 158.92 239.09 62.59 23 6 33 3367.1 -11.02 152.10
 100.00 5 15 57 2527.87 -29.72 61.72 244.07 93.38 5 58 5 1927.9 -28.93 53.00
 100.00 23 6 25 3754.16 -6.15 142.58 238.41 60.69 24 8 59 3154.2 -10.01 135.92
 110.00 6 56 14 2214.14 -33.24 37.46 243.64 98.50 7 33 8 1614.1 -31.70 28.57
 110.00 23 42 38 3640.66 -3.14 132.12 236.54 55.94 24 43 18 3040.7 -7.59 125.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5340 TRA-1.0147 TC3 1.0582 BAU .1906 SGT 2215.3 SGR 936.1 SG3 643.3 ST 1082.5 SR 556.5 SS 1371.1
 RDE -.3051 RRA -.3192 RC3 .7474 FAU .08344 RRT .9429 RRF -.9830 RTF -.9531 CRT .9749 CRS .9874 CST .9976
 FDE 1.7311 FRA 2.8202 FC3-6.5638 BSP 8034 SGB 2405.0 R23 -.2060 R13 -.9644 LSA 1829.9 MSA 112.3 SSA 15.2
 BDE .6150 BRA 1.0637 BC3 1.2955 FSP -1955 SG1 2387.5 SG2 289.3 THA 22.07 EL1 1212.1 EL2 110.7 ALF 26.86

LAUNCH DATE DEC 24 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 365.331

RL 147.14 LAL .00 LOL 92.26 VL 27.519 GAL 2.98 AZL 89.05 MCA 158.13 SMA 126.79 ECC .16847 INC .9549 V1 30.279
 RP 108.57 LAP .36 LOP 250.39 VP 37.392 GAP -5.09 AZP 90.89 TAL 164.99 TAP 323.12 RCA 105.43 APO 148.16 V2 34.906
 RC 61.981 GL 8.18 GP 21.01 ZAL 61.83 ZAP 38.61 ETS 334.03 ZAE 150.62 ETE 35.65 ZAC 121.01 ETC 150.23 CLP -33.17

PLANETOCENTRIC CONIC

C3 10.369 VHL 3.220 OLA 19.38 RAL 25.60 RAD 6567.4 VEL 11.479 PTH 2.00 VHP 4.512 OPA 31.27 RAP 26.78 ECC 1.1707
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 34 2721.21 -27.79 76.10 242.86 95.66 4 55 55 2121.2 -26.72 67.59
 90.00 21 33 40 4061.38 -4.42 164.24 238.09 62.00 22 41 22 3461.4 -8.13 157.52
 100.00 5 43 58 2419.98 -29.02 53.78 242.70 97.50 6 24 18 1820.0 -27.68 45.23
 100.00 22 42 57 3837.83 -3.34 147.21 237.49 60.28 23 46 55 3237.8 -7.27 140.62
 110.00 7 18 17 2124.93 -32.14 30.73 242.07 102.33 7 53 42 1524.9 -30.10 22.11
 110.00 23 25 8 3705.65 -6.66 135.51 235.82 55.82 24 26 53 3105.6 -5.14 129.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4810 TRA -.9794 TC3 1.0936 BAU .2059 SGT 2154.3 SGR 1147.1 SG3 694.6 ST 1019.8 SR 606.4 SS 1337.5
 RDE -.3154 RRA -.4046 RC3 1.0046 FAU .08906 RRT .9492 RRF -.9911 RTF -.9531 CRT .9824 CRS .9904 CST .9986
 FDE 1.6662 FRA 3.0414 FC3-7.4357 BSP 8099 SGB 2440.7 R23 -.2085 R13 -.9697 LSA 1785.2 MSA 97.6 SSA 16.0
 BDE .5752 BRA 1.0597 BC3 1.4850 FSP -2118 SG1 2419.4 SG2 321.5 THA 27.33 EL1 1182.5 EL2 97.6 ALF 30.52

LAUNCH DATE DEC 24 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 371.860

RL 147.14 LAL .00 LOL 92.26 VL 27.560 GAL 2.88 AZL 89.48 MCA 161.31 SMA 127.07 ECC .16549 INC .5237 V1 30.279
 RP 108.60 LAP .17 LOP 253.57 VP 37.412 GAP -4.59 AZP 90.50 TAL 165.22 TAP 326.53 RCA 106.04 APO 148.10 V2 34.894
 RC 64.032 GL 4.61 GP 25.41 ZAL 61.99 ZAP 43.35 ETS 332.65 ZAE 148.37 ETE 43.38 ZAC 118.56 ETC 148.24 CLP -36.38

PLANETOCENTRIC CONIC

C3 9.817 VHL 3.133 OLA 15.91 RAL 26.58 RAD 6567.4 VEL 11.455 PTH 1.99 VHP 4.389 OPA 35.23 RAP 24.49 ECC 1.1616
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 36 2576.98 -26.40 65.78 241.73 100.64 5 32 33 1977.0 -24.66 57.54
 90.00 21 2 29 4183.70 -4.49 171.07 237.62 61.69 22 12 13 3583.7 -4.27 164.43
 100.00 6 19 46 2286.20 -27.45 44.15 241.49 102.33 6 57 52 1686.2 -25.47 35.90
 100.00 22 15 0 3949.72 .45 153.35 237.10 60.11 23 20 50 3349.7 -3.53 146.82
 110.00 7 47 36 2011.37 -30.18 22.46 240.67 106.87 8 21 8 1411.4 -27.58 14.24
 110.00 23 3 39 3797.32 2.85 140.29 235.60 55.92 24 6 57 3197.3 -1.64 134.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4126 TRA -.9378 TC3 1.1223 BAU .2310 SGT 2060.0 SGR 1427.4 SG3 733.3 ST 925.1 SR 652.2 SS 1244.9
 RDE -.3172 RRA -.5204 RC3 1.3557 FAU .09364 RRT .9521 RRF -.9956 RTF -.9531 CRT .9896 CRS .9921 CST .9995
 FDE 1.4819 FRA 3.2380 FC3-8.2583 BSP 8406 SGB 2506.2 R23 -.1925 R13 -.9769 LSA 1680.5 MSA 80.3 SSA 17.8
 BDE .5204 BRA 1.0725 BC3 1.7599 FSP -2271 SG1 2479.9 SG2 362.4 THA 34.25 EL1 1129.3 EL2 77.0 ALF 35.09

LAUNCH DATE DEC 24 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 378.365

RL 147.14 LAL .00 LOL 92.26 VL 27.597 GAL 2.79 AZL 90.08 MCA 164.49 SMA 127.32 ECC .16287 INC .0785 V1 30.279
 RP 108.64 LAP -.02 LOP 256.74 VP 37.429 GAP -4.09 AZP 89.93 TAL 165.42 TAP 329.91 RCA 106.59 APO 148.06 V2 34.883
 RC 66.131 GL -.68 GP 31.22 ZAL 62.23 ZAP 48.88 ETS 331.07 ZAE 144.71 ETE 51.74 ZAC 115.03 ETC 146.13 CLP -39.75

PLANETOCENTRIC CONIC

C3 9.412 VHL 3.068 CLA 10.84 RAL 28.18 RAD 6567.3 VEL 11.437 PTH 1.98 VHP 4.357 DPA 40.32 RAP 20.96 ECC 1.1549
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 40 20 2393.23 -23.46 53.13 241.03 106.32 6 20 13 1793.2 -21.00 45.32
 90.00 20 24 29 4350.90 4.89 180.42 238.14 62.07 21 37 0 3750.9 1.12 173.77
 100.00 7 7 6 2113.40 -24.37 32.24 240.72 107.87 7 42 19 1513.4 -21.70 24.46
 100.00 21 40 24 4105.97 5.72 161.95 237.68 60.61 22 48 50 3506.0 1.76 155.40
 110.00 8 27 38 1861.38 -26.77 12.14 239.76 112.10 8 58 40 1261.4 -23.53 4.47
 110.00 22 36 21 3930.75 7.90 147.32 236.35 56.63 23 41 52 3330.8 3.45 141.05

DIFFERENTIAL CORRECTIONS

TDE -.3339 TRA -.8940 TC3 1.1091 BAU .2676
 RDE -.2966 RRA -.6846 RC3 1.8142 FAU .09489
 FDE 1.1404 FRA 3.3708 FC3-8.7278 BSP 8951
 BDE .4466 BRA 1.1260 BC3 2.1264 FSP -2352

MID-COURSE EXECUTION ACCURACY

SGT 1934.4 SGR 1800.2 SG3 744.7
 RRT .9523 RRF -.9979 RTF -.9517
 SGB 2642.4 R23 -.1609 R13 -.9849
 SG1 2610.9 SG2 407.2 THA 42.84

ORBIT DETERMINATION ACCURACY

ST 805.8 SR 678.6 SS 1081.9
 CRT .9972 CRS .9928 CST .9983
 LSA 1508.3 MSA 70.1 SSA 18.8
 EL1 1052.7 EL2 39.1 ALF 40.09

LAUNCH DATE DEC 24 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 384.855

RL 147.14 LAL .00 LOL 92.26 VL 27.630 GAL 2.71 AZL 90.98 MCA 167.66 SMA 127.54 ECC .16060 INC .9750 V1 30.279
 RP 108.67 LAP -.21 LOP 259.91 VP 37.443 GAP -3.62 AZP 89.05 TAL 165.58 TAP 333.24 RCA 107.06 APO 148.02 V2 34.873
 RC 68.274 GL -.82 GP 38.99 ZAL 62.90 ZAP 55.46 ETS 329.40 ZAE 138.84 ETE 60.03 ZAC 110.08 ETC 144.03 CLP -43.15

PLANETOCENTRIC CONIC

C3 9.371 VHL 3.061 CLA 3.10 RAL 30.74 RAD 6567.3 VEL 11.435 PTH 1.98 VHP 4.495 DPA 46.97 RAP 15.36 ECC 1.1542
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 50 35 2145.38 -17.83 37.15 241.62 112.37 7 26 20 1545.4 -14.64 29.92
 90.00 19 34 39 4597.03 12.48 194.51 240.77 64.38 20 51 16 3997.0 8.93 187.63
 100.00 8 13 22 1878.34 -18.64 17.15 241.26 113.80 8 44 40 1278.3 -15.27 9.98
 100.00 20 54 33 4339.30 13.27 175.16 240.37 62.97 22 6 52 3739.3 9.54 168.36
 110.00 9 24 56 1654.35 -20.79 359.04 240.15 117.76 9 52 30 1054.4 -16.91 352.06
 110.00 21 59 28 4136.06 15.36 158.54 239.17 59.08 23 8 24 3536.1 11.15 151.97

DIFFERENTIAL CORRECTIONS

TDE -.3185 TRA -.9181 TC3 .7166 BAU .2833
 RDE -.2684 RRA -.9764 RC3 2.1445 FAU .08193
 FDE .7854 FRA 3.5306 FC3-7.5692 BSP 7957
 BDE .4165 BRA 1.3402 BC3 2.2611 FSP -1934

MID-COURSE EXECUTION ACCURACY

SGT 1873.4 SGR 2307.8 SG3 709.5
 RRT .9310 RRF -.9992 RTF -.9295
 SGB 2972.4 R23 -.1481 R13 -.9881
 SG1 2923.0 SG2 539.7 THA 51.36

ORBIT DETERMINATION ACCURACY

ST 788.7 SR 745.2 SS 960.9
 CRT .9926 CRS .9946 CST .9752
 LSA 1443.0 MSA 135.9 SSA 9.5
 EL1 1083.1 EL2 65.8 ALF 43.36

LAUNCH DATE DEC 24 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 391.303

RL 147.14 LAL .00 LOL 92.26 VL 27.658 GAL 2.65 AZL 92.48 MCA 170.82 SMA 127.73 ECC .15863 INC 2.4805 V1 30.279
 RP 108.70 LAP -.40 LOP 263.09 VP 37.455 GAP -3.15 AZP 87.55 TAL 165.72 TAP 336.54 RCA 107.47 APO 147.99 V2 34.862
 RC 70.456 GL -21.71 GP 49.50 ZAL 65.04 ZAP 63.34 ETS 327.87 ZAE 129.82 ETE 67.35 ZAC 103.26 ETC 142.20 CLP -46.31

PLANETOCENTRIC CONIC

C3 10.458 VHL 3.234 CLA -9.13 RAL 34.83 RAD 6567.4 VEL 11.482 PTH 2.00 VHP 4.988 DPA 55.53 RAP 5.58 ECC 1.1721
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 39 8 1784.05 -7.33 15.82 246.00 117.43 9 8 52 1184.0 -3.60 9.13
 90.00 18 18 46 5001.95 22.77 219.73 248.65 72.70 19 42 8 4402.0 20.19 212.00
 100.00 9 56 1 1536.01 -8.18 357.13 245.54 118.85 10 21 37 936.0 -4.27 350.52
 100.00 19 44 35 4725.22 23.68 199.05 248.33 71.21 21 3 20 4125.2 20.90 191.36
 110.00 10 54 6 1354.12 -10.40 341.98 244.20 122.75 11 16 40 754.1 -6.01 335.64
 110.00 21 2 59 4479.88 26.10 179.40 247.32 67.10 22 17 38 3879.9 22.77 171.83

DIFFERENTIAL CORRECTIONS

TDE -.2043 TRA -.8465 TC3 .6748 BAU .3664
 RDE -.0553 RRA -1.3359 RC3 2.5321 FAU .07005
 FDE .0431 FRA 3.1337 FC3-5.7988 BSP 10356
 BDE .2117 BRA 1.5815 BC3 2.6205 FSP -1793

MID-COURSE EXECUTION ACCURACY

SGT 1621.4 SGR 2904.9 SG3 584.0
 RRT .9324 RRF -.9997 RTF -.9312
 SGB 3326.8 R23 -.0869 R13 -.9959
 SG1 3286.2 SG2 517.9 THA 61.74

ORBIT DETERMINATION ACCURACY

ST 582.1 SR 727.5 SS 729.5
 CRT .8592 CRS .9959 CST .8099
 LSA 1147.0 MSA 290.8 SSA 3.3
 EL1 900.1 EL2 240.7 ALF 52.33

LAUNCH DATE DEC 24 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 397.721

RL 147.14 LAL .00 LOL 92.26 VL 27.682 GAL 2.60 AZL 95.55 MCA 173.97 SMA 127.90 ECC .15697 INC 5.5464 V1 30.279
 RP 108.73 LAP -.58 LOP 266.25 VP 37.464 GAP -2.71 AZP 84.48 TAL 165.81 TAP 339.78 RCA 107.82 APO 147.97 V2 34.853
 RC 72.672 GL -41.09 GP 63.50 ZAL 70.71 ZAP 72.49 ETS 326.35 ZAE 116.66 ETE 72.27 ZAC 94.39 ETC 140.67 CLP -47.61

PLANETOCENTRIC CONIC

C3 16.537 VHL 4.067 CLA -27.46 RAL 41.57 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 6.441 DPA 65.61 RAP 345.33 ECC 1.2722
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 12 54 34 1047.55 15.60 333.87 265.01 113.94 13 12 1 447.6 18.70 326.57
 90.00 14 57 3 648.37 24.69 308.19 268.36 104.33 15 7 51 48.4 26.42 299.95
 100.00 13 36 7 913.26 12.53 322.50 263.49 117.36 13 51 20 313.3 16.10 315.53
 100.00 16 58 11 5545.93 28.01 258.19 269.19 100.90 18 30 37 4945.9 29.23 249.60
 110.00 13 45 29 883.88 7.41 317.23 260.44 123.47 14 0 13 283.9 11.76 310.83
 110.00 19 5 19 5148.09 33.89 228.93 270.13 94.75 20 31 7 4548.1 34.18 219.69

DIFFERENTIAL CORRECTIONS

TDE -.1794 TRA -.8694 TC3 .3317 BAU .4182
 RDE .3749 RRA -2.0067 RC3 1.8624 FAU .04167
 FDE .4708 FRA 2.4346 FC3-2.1813 BSP 12052
 BDE .4156 BRA 2.1869 BC3 1.8917 FSP -1173

MID-COURSE EXECUTION ACCURACY

SGT 1429.0 SGR 3567.2 SG3 371.9
 RRT .9168 RRF -.9999 RTF -.9180
 SGB 3842.8 R23 -.0494 R13 -.9987
 SG1 3805.4 SG2 535.1 THA 69.41

ORBIT DETERMINATION ACCURACY

ST 485.2 SR 1093.1 SS 744.0
 CRT .4953 CRS .9999 CST .4825
 LSA 1345.8 MSA 415.3 SSA 1.1
 EL1 1123.4 EL2 410.1 ALF 75.65

LAUNCH DATE DEC 24 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 404.056

RL 147.14 LAL .00 LOL 92.26 VL 27.703 GAL 2.58 AZL 105.13 MCA 177.06 SMA 128.04 ECC .15566 INC15.1297 V1 30.279
 RP 108.76 LAP -.77 LOP 269.42 VP 37.470 GAP -2.29 AZP 74.89 TAL 165.79 TAP 342.85 RCA 108.11 APO 147.97 V2 34.844
 RC 74.919 GL -62.22 GP 81.41 ZAL 80.60 ZAP 82.06 ETS 312.78 ZAE 97.48 ETE 61.79 ZAC 83.95 ETC 128.03 CLP -22.33

PLANETOCENTRIC CONIC

C3 66.651 VHL 8.164 CLA -47.73 RAL 50.29 RAD 6569.3 VEL 13.711 PTH 2.51 VHP 11.963 DPA 72.47 RAP 292.44 ECC 2.0969
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.82 10 28 32 1927.26 18.06 44.83 303.03 134.97 11 0 39 1327.3 23.61 39.08
 130.18 18 32 42 5742.29 18.08 267.53 303.04 134.96 20 8 24 5142.3 23.63 261.78
 49.82 10 28 32 1927.26 18.06 44.83 303.03 134.97 11 0 39 1327.3 23.61 39.08
 130.18 18 32 42 5742.29 18.08 267.53 303.04 134.96 20 8 24 5142.3 23.63 261.78
 49.82 10 28 32 1927.26 18.06 44.83 303.03 134.97 11 0 39 1327.3 23.61 39.08
 130.18 18 32 42 5742.29 18.08 267.53 303.04 134.96 20 8 24 5142.3 23.63 261.78

DIFFERENTIAL CORRECTIONS

TDE -.0487 TRA-1.9084 TC3 .0669 BAU .2486
 RDE 1.4474 RRA-3.4718 RC3 .2709 FAU .00761
 FDE -.5331 FRA 1.5925 FC3 -.0989 BSP 13545
 BDE 1.4482 BRA 3.9617 BC3 .2790 FSP -481

MID-COURSE EXECUTION ACCURACY

SGT 1994.4 SGR 3788.0 SG3 147.8
 RRT .9565 RRF -.9984 RTF -.9710
 SGB 4280.9 R23 -.0075 R13 -.9999
 SG1 4249.4 SG2 518.7 THA 62.83

ORBIT DETERMINATION ACCURACY

ST 598.3 SR 1487.6 SS 644.2
 CRT .6904 CRS .9942 CST .7642
 LSA 1677.1 MSA 416.1 SSA .6
 EL1 1548.6 EL2 415.8 ALF 73.24

LAUNCH DATE DEC 24 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 411.333

RL 147.14 LAL .00 LOL 92.26 VL 27.720 GAL 2.39 AZL 19.35 MCA 181.00 SMA 128.15 ECC .15375 INC70.6460 V1 30.279
 RP 108.78 LAP -.95 LOP 272.59 VP 37.475 GAP -1.63 AZP 160.65 TAL 166.67 TAP 347.67 RCA 108.45 APO 147.86 V2 34.835
 RC 77.194 GL 51.03 GP -59.38 ZAL 87.88 ZAP 88.26 ETS 175.72 ZAE 60.24 ETE 63.88 ZAC 100.29 ETC 9.23 CLP 86.59

PLANETOCENTRIC CONIC

C31129.624 VHL 33.610 CLA 47.55 RAL 338.01 RAD 6573.0 VEL 35.368 PTH 3.52 VHP 40.182 DPA -48.91 RAP 148.10 ECC19.5908
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.06 17 39 9 4944.39 .57 229.78 248.54 42.46 19 1 33 4344.4 -5.33 224.79
 129.94 1 45 24 3475.96 .58 115.00 248.52 42.46 2 43 20 2876.0 -5.32 110.00
 50.06 17 39 9 4944.39 .57 229.78 248.54 42.46 19 1 33 4344.4 -5.33 224.79
 129.94 1 45 24 3475.96 .58 115.00 248.52 42.46 2 43 20 2876.0 -5.32 110.00
 50.06 17 39 9 4944.39 .57 229.78 248.54 42.46 19 1 33 4344.4 -5.33 224.79
 129.94 1 45 24 3475.96 .58 115.00 248.52 42.46 2 43 20 2876.0 -5.32 110.00

DIFFERENTIAL CORRECTIONS

TDE-6.4933 TRA 2.6151 TC3 -.1275 BAU 4.3909
 RD-18.5422 RRA .4644 RC3 -.2613 FAU-.07536
 FDE 4.0024 FRA -.1720 FC3 .0578 BSP 8494
 BOE19.6463 BRA 2.6560 BC3 .2908 FSP -155

MID-COURSE EXECUTION ACCURACY

SGT 1548.0 SGR 3618.1 SG3 67.9
 RRT .9074 RRF -.9997 RTF -.9176
 SGB 3935.3 R23 -.0372 R13 -.9993
 SG1 3888.5 SG2 605.4 THA 68.23

ORBIT DETERMINATION ACCURACY

ST 1124.8 SR 3161.6 SS 2369.6
 CRT .9862 CRS 1.0000 CST .9875
 LSA 4104.2 MSA 176.6 SSA .5
 EL1 3351.1 EL2 175.4 ALF 70.61

LAUNCH DATE DEC 24 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 417.148

RL 147.14 LAL .00 LOL 92.26 VL 27.733 GAL 2.48 AZL 72.14 MCA 183.67 SMA 128.25 ECC .15337 INC17.8577 V1 30.279
 RP 108.81 LAP -1.13 LOP 275.75 VP 37.478 GAP -1.36 AZP 107.82 TAL 166.09 TAP 349.77 RCA 108.58 APO 147.92 V2 34.827
 RC 79.493 GL 64.17 GP -79.48 ZAL 82.16 ZAP 83.89 ETS 53.26 ZAE 98.70 ETE 307.77 ZAC 111.66 ETC 241.69 CLP -54.33

PLANETOCENTRIC CONIC

C3 89.110 VHL 9.440 CLA 62.43 RAL 331.88 RAD 6569.7 VEL 14.507 PTH 2.63 VHP 9.619 DPA -58.49 RAP 81.18 ECC 2.4665
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.71 16 22 4 4748.56 -17.85 233.61 232.22 29.09 17 41 12 4148.6 -24.79 229.75
 148.29 2 13 36 3055.08 -17.84 93.36 232.20 29.09 3 4 31 2455.1 -24.78 89.50
 31.71 16 22 4 4748.56 -17.85 233.61 232.22 29.09 17 41 12 4148.6 -24.79 229.75
 148.29 2 13 36 3055.08 -17.84 93.36 232.20 29.09 3 4 31 2455.1 -24.78 89.50
 31.71 16 22 4 4748.56 -17.85 233.61 232.22 29.09 17 41 12 4148.6 -24.79 229.75
 148.29 2 13 36 3055.08 -17.84 93.36 232.20 29.09 3 4 31 2455.1 -24.78 89.50

DIFFERENTIAL CORRECTIONS

TDE-3.5604 TRA .1076 TC3 .0285 BAU .1513
 RDE 6.1738 RRA -.8340 RC3 -.1238 FAU .00801
 FDE 3.6442 FRA -.3819 FC3 -.0778 BSP 14163
 BDE 7.1269 BRA .8409 BC3 .1270 FSP -656

MID-COURSE EXECUTION ACCURACY

SGT 2166.3 SGR 3910.7 SG3 196.4
 RRT -.9756 RRF .9981 RTF -.9869
 SGB 4470.6 R23 .0084 R13 .9999
 SG1 4451.0 SG2 417.9 THA 118.66

ORBIT DETERMINATION ACCURACY

ST 2161.4 SR 3761.6 SS 1842.5
 CRT -.9977 CRS -.9998 CST .9988
 LSA 4711.7 MSA 127.0 SSA .9
 EL1 4336.5 EL2 127.0 ALF 119.85

LAUNCH DATE DEC 24 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 423.446

RL 147.14 LAL .00 LOL 92.26 VL 27.744 GAL 2.49 AZL 78.92 MCA 186.79 SMA 128.32 ECC .15279 INC11.0779 V1 30.279
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.479 GAP -.96 AZP 101.00 TAL 165.97 TAP 352.75 RCA 108.72 APO 147.93 V2 34.820
 RC 81.813 GL 57.92 GP -64.73 ZAL 78.13 ZAP 82.36 ETS 22.21 ZAE 114.24 ETE 279.71 ZAC 116.08 ETC 209.04 CLP -71.87

PLANETOCENTRIC CONIC

C3 39.511 VHL 6.286 CLA 60.09 RAL 344.79 RAD 6568.5 VEL 12.684 PTH 2.30 VHP 5.672 DPA -49.76 RAP 59.53 ECC 1.6502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.50 17 20 25 4539.88 -28.67 224.10 236.47 34.63 18 36 5 3939.9 -35.14 218.97
 145.50 2 58 15 2870.67 -28.66 87.19 236.46 34.62 3 46 6 2270.7 -35.13 82.06
 34.50 17 20 25 4539.88 -28.67 224.10 236.47 34.63 18 36 5 3939.9 -35.14 218.97
 145.50 2 58 15 2870.67 -28.66 87.19 236.46 34.62 3 46 6 2270.7 -35.13 82.06
 34.50 17 20 25 4539.88 -28.67 224.10 236.47 34.63 18 36 5 3939.9 -35.14 218.97
 145.50 2 58 15 2870.67 -28.66 87.19 236.46 34.62 3 46 6 2270.7 -35.13 82.06

DIFFERENTIAL CORRECTIONS

TDE -.1102 TRA -.3081 TC3 -.0354 BAU .3564
 RDE 4.5139 RRA -.0138 RC3 -.6738 FAU .04322
 FDE 5.6997 FRA .0735 FC3 -.9469 BSP 13083
 BDE 4.5153 BRA .3084 BC3 .6747 FSP -1494

MID-COURSE EXECUTION ACCURACY

SGT 574.0 SGR 4200.9 SG3 460.7
 RRT -.1499 RRF .9993 RTF -.1780
 SGB 4239.9 R23 .0257 R13 .9993
 SG1 4201.8 SG2 567.4 THA 91.20

ORBIT DETERMINATION ACCURACY

ST 196.6 SR 4114.6 SS 2546.2
 CRT -.5094 CRS -1.0000 CST .5176
 LSA 4839.7 MSA 170.2 SSA 1.7
 EL1 4115.8 EL2 169.1 ALF 91.40

LAUNCH DATE DEC 24 1968

FLIGHT TIME 158.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 27.752 GAL 2.51 AZL 81.43 MCA 189.93 SMA 128.38 ECC .15240 INC 8.5659 V1 30.279
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.479 GAP -.56 AZP 98.44 TAL 165.83 TAP 355.76 RCA 108.81 APO 147.94 V2 34.813
 RC 84.153 GL 52.71 GP -54.09 ZAL 75.48 ZAP 83.63 ETS 12.57 ZAE 125.14 ETE 271.31 ZAC 117.56 ETC 198.07 CLP -79.09

DISTANCE 429.763

PLANETOCENTRIC CONIC
 C3 26.943 VHL 5.191 OLA 56.95 RAL 352.97 RAD 6568.1 VEL 12.179 PTH 2.19 VHP 4.339 OPA -42.18 RAP 48.36 ECC 1.4434
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.27 18 2 53 4424.67 -32.72 215.74 238.27 40.40 19 16 38 3824.7 -38.64 209.53
 141.73 3 21 2 2793.34 -32.71 83.61 238.26 40.40 4 7 35 2193.3 -38.63 77.39
 38.27 18 2 53 4424.67 -32.72 215.74 238.27 40.40 19 16 38 3824.7 -38.64 209.53
 141.73 3 21 2 2793.34 -32.71 83.61 238.26 40.40 4 7 35 2193.3 -38.63 77.39
 38.27 18 2 53 4424.67 -32.72 215.74 238.27 40.40 19 16 38 3824.7 -38.64 209.53
 141.73 3 21 2 2793.34 -32.71 83.61 238.26 40.40 4 7 35 2193.3 -38.63 77.39

MID-COURSE EXECUTION ACCURACY
 SGT 781.5 SGR 3833.8 SG3 750.7
 RRT .6339 RRF .9992 RTF .6149
 SGB 3912.6 R23 .0443 R13 .9985
 SG1 3866.5 SG2 599.3 THA 82.46

ORBIT DETERMINATION ACCURACY
 ST 554.7 SR 3638.1 SS 3051.6
 CRT .9455 CRS-1.0000 CST -.9424
 LSA 4777.3 MSA 182.9 SSA 2.4
 EL1 3675.8 EL2 178.8 ALF 81.78

DIFFERENTIAL CORRECTIONS
 TDE .4822 TRA -.2572 TC3 -.2287 BAU .3852
 ROE 3.2922 RRA .2776 RC3-1.0446 FAU .08017
 FDE 7.3633 FRA .7453 FC3-2.5759 BSP 12153
 BDE 3.3274 BRA .3784 BC3 1.0693 FSP -2457

LAUNCH DATE DEC 24 1968

FLIGHT TIME 160.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 27.757 GAL 2.53 AZL 82.74 MCA 193.09 SMA 128.42 ECC .15221 INC 7.2556 V1 30.279
 RP 108.87 LAP -1.64 LOP 285.24 VP 37.477 GAP -.17 AZP 97.07 TAL 165.65 TAP 358.74 RCA 108.87 APO 147.96 V2 34.807
 RC 86.508 GL 48.79 GP -46.02 ZAL 73.59 ZAP 86.73 ETS 6.25 ZAE 133.09 ETE 263.85 ZAC 117.20 ETC 190.60 CLP -85.28

DISTANCE 436.070

PLANETOCENTRIC CONIC
 C3 21.671 VHL 4.655 OLA 54.27 RAL 358.14 RAD 6567.9 VEL 11.960 PTH 2.13 VHP 3.720 OPA -36.29 RAP 40.81 ECC 1.3566
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.55 18 32 37 4352.35 -34.18 209.23 238.92 44.90 19 45 10 3752.4 -39.64 202.32
 138.45 3 32 34 2758.92 -34.17 81.50 238.90 44.89 4 18 33 2158.9 -39.63 74.60
 41.55 18 32 37 4352.35 -34.18 209.23 238.92 44.90 19 45 10 3752.4 -39.64 202.32
 138.45 3 32 34 2758.92 -34.17 81.50 238.90 44.89 4 18 33 2158.9 -39.63 74.60
 41.55 18 32 37 4352.35 -34.18 209.23 238.92 44.90 19 45 10 3752.4 -39.64 202.32
 138.45 3 32 34 2758.92 -34.17 81.50 238.90 44.89 4 18 33 2158.9 -39.63 74.60

MID-COURSE EXECUTION ACCURACY
 SGT 1151.2 SGR 3434.7 SG3 1001.8
 RRT .8482 RRF .9991 RTF .8357
 SGB 3622.5 R23 .0700 R13 .9969
 SG1 3574.8 SG2 585.9 THA 73.68

ORBIT DETERMINATION ACCURACY
 ST 1002.3 SR 3144.5 SS 3347.0
 CRT .9831 CRS -.9999 CST -.9812
 LSA 4696.8 MSA 186.1 SSA 3.0
 EL1 3295.7 EL2 175.0 ALF 72.55

DIFFERENTIAL CORRECTIONS
 TDE .8098 TRA -.1660 TC3 -.4916 BAU .3807
 ROE 2.5467 RRA .3928 RC3-1.2185 FAU .11164
 FDE 8.4273 FRA 1.4702 FC3-4.4601 BSP 11136
 BDE 2.6723 BRA .4264 BC3 1.3139 FSP -3287

LAUNCH DATE DEC 24 1968

FLIGHT TIME 162.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 27.760 GAL 2.57 AZL 83.55 MCA 196.25 SMA 128.44 ECC .15223 INC 6.4480 V1 30.279
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.474 GAP .22 AZP 96.19 TAL 165.43 TAP 1.67 RCA 108.88 APO 147.99 V2 34.802
 RC 88.877 GL 45.78 GP -39.69 ZAL 72.13 ZAP 90.90 ETS 1.62 ZAE 138.76 ETE 255.67 ZAC 115.79 ETC 185.02 CLP -91.17

DISTANCE 442.361

PLANETOCENTRIC CONIC
 C3 18.887 VHL 4.346 OLA 52.12 RAL 1.76 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 3.392 OPA -31.75 RAP 34.97 ECC 1.3108
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.23 18 54 57 4302.09 -34.61 204.22 239.29 48.25 20 6 39 3702.1 -39.70 196.88
 135.77 3 39 4 2743.60 -34.60 80.32 239.28 48.24 4 24 47 2143.6 -39.69 72.98
 44.23 18 54 57 4302.09 -34.61 204.22 239.29 48.25 20 6 39 3702.1 -39.70 196.88
 135.77 3 39 4 2743.60 -34.60 80.32 239.28 48.24 4 24 47 2143.6 -39.69 72.98
 44.23 18 54 57 4302.09 -34.61 204.22 239.29 48.25 20 6 39 3702.1 -39.70 196.88
 135.77 3 39 4 2743.60 -34.60 80.32 239.28 48.24 4 24 47 2143.6 -39.69 72.98

MID-COURSE EXECUTION ACCURACY
 SGT 1563.2 SGR 3048.7 SG3 1191.9
 RRT .9211 RRF .9988 RTF .9115
 SGB 3426.1 R23 .1005 R13 .9940
 SG1 3381.9 SG2 548.7 THA 63.98

ORBIT DETERMINATION ACCURACY
 ST 1396.3 SR 2704.2 SS 3492.9
 CRT .9914 CRS -.9999 CST -.9897
 LSA 4629.0 MSA 186.6 SSA 3.4
 EL1 3039.1 EL2 162.7 ALF 62.81

DIFFERENTIAL CORRECTIONS
 TDE 1.0585 TRA -.0603 TC3 -.7964 BAU .3759
 ROE 2.0401 RRA .4334 RC3-1.2576 FAU .13530
 FDE 8.9788 FRA 2.1403 FC3-6.2021 BSP 10331
 BDE 2.2983 BRA .4376 BC3 1.4886 FSP -3912

LAUNCH DATE DEC 24 1968

FLIGHT TIME 164.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC
 RL 147.14 LAL .00 LOL 92.26 VL 27.761 GAL 2.62 AZL 84.10 MCA 199.41 SMA 128.44 ECC .15245 INC 5.8977 V1 30.279
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.470 GAP .60 AZP 95.56 TAL 165.16 TAP 4.56 RCA 108.86 APO 148.02 V2 34.797
 RC 91.256 GL 43.37 GP -34.58 ZAL 70.90 ZAP 95.63 ETS 358.14 ZAE 142.52 ETE 246.66 ZAC 113.84 ETC 180.80 CLP -96.84

DISTANCE 448.634

PLANETOCENTRIC CONIC
 C3 17.221 VHL 4.150 OLA 50.38 RAL 4.52 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 3.213 OPA -28.19 RAP 30.14 ECC 1.2834
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.42 19 12 48 4264.79 -34.60 200.31 239.70 50.78 20 23 53 3664.8 -39.40 192.71
 133.58 3 43 16 2737.81 -34.59 79.70 239.69 50.77 4 28 53 2137.8 -39.39 72.10
 46.42 19 12 48 4264.79 -34.60 200.31 239.70 50.78 20 23 53 3664.8 -39.40 192.71
 133.58 3 43 16 2737.81 -34.59 79.70 239.69 50.77 4 28 53 2137.8 -39.39 72.10
 46.42 19 12 48 4264.79 -34.60 200.31 239.70 50.78 20 23 53 3664.8 -39.40 192.71
 133.58 3 43 16 2737.81 -34.59 79.70 239.69 50.78 20 23 53 2137.8 -39.39 72.10

MID-COURSE EXECUTION ACCURACY
 SGT 1986.0 SGR 2685.0 SG3 1317.5
 RRT .9526 RRF .9983 RTF .9445
 SGB 3339.7 R23 .1287 R13 .9902
 SG1 3303.4 SG2 491.0 THA 53.91

ORBIT DETERMINATION ACCURACY
 ST 1750.2 SR 2319.6 SS 3528.9
 CRT .9948 CRS -.9999 CST -.9930
 LSA 4567.5 MSA 185.7 SSA 4.1
 EL1 2902.3 EL2 142.9 ALF 53.00

DIFFERENTIAL CORRECTIONS
 TDE 1.2672 TRA .0526 TC3-1.1239 BAU .3819
 ROE 1.6674 RRA .4341 RC3-1.2203 FAU .15196
 FDE 9.1180 FRA 2.6868 FC3-7.6391 BSP 9953
 BDE 2.0943 BRA .4373 BC3 1.6590 FSP -4367

LAUNCH DATE DEC 24 1968

FLIGHT TIME 166.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 454.888

RL 147.14 LAL .00 LOL 92.26 VL 27.760 GAL 2.69 AZL 84.50 MCA 202.57 SMA 128.43 ECC .15287 INC 5.4967 V1 30.279
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.465 GAP .98 AZP 95.08 TAL 164.84 TAP 7.40 RCA 108.80 APO 148.06 V2 34.793
 RC 93.644 GL 41.37 GP -30.36 ZAL 69.79 ZAP 100.58 ETS 355.50 ZAE 144.67 ETE 237.28 ZAC 111.72 ETC 177.59 CLP-102.29

PLANETOCENTRIC CONIC

C3 16.152 VHL 4.019 DLA 48.95 RAL 6.81 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 3.124 DPA -25.33 RAP 26.05 ECC 1.2658
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.24 19 27 51 4235.95 -34.39 197.19 240.24 52.73 20 38 27 3636.0 -38.96 189.42
 131.76 3 46 27 2737.23 -34.38 79.44 240.23 52.72 4 32 5 2137.2 -38.95 71.67
 48.24 19 27 51 4235.95 -34.39 197.19 240.24 52.73 20 38 27 3636.0 -38.96 189.42
 131.76 3 46 27 2737.23 -34.38 79.44 240.23 52.72 4 32 5 2137.2 -38.95 71.67
 48.24 19 27 51 4235.95 -34.39 197.19 240.24 52.73 20 38 27 3636.0 -38.96 189.42
 131.76 3 46 27 2737.23 -34.38 79.44 240.23 52.72 4 32 5 2137.2 -38.95 71.67

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4485 TRA .1700 TC3-1.4592 BAU .3990 SGT 2403.4 SGR 2352.4 SG3 1386.4 ST 2068.3 SR 1990.8 SS 3493.1
 RDE 1.3833 RRA .4158 RC3-1.1335 FAU .16173 RRT .9682 RRF .9973 RTF .9609 CRT .9966 CRS -.9998 CST -.9946
 FDE 8.9658 FRA 3.1085 FC3-8.6688 BSP 9957 SGB 3363.1 R23 .1471 R13 .9866 LSA 4517.6 MSA 184.4 SSA 4.7
 BDE 2.0029 BRA .4492 BC3 1.8478 FSP -4645 SG1 3536.3 SG2 423.8 THA 44.37 EL1 2868.3 EL2 118.9 ALF 43.90

LAUNCH DATE DEC 24 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 461.123

RL 147.14 LAL .00 LOL 92.26 VL 27.756 GAL 2.76 AZL 84.81 MCA 205.73 SMA 128.41 ECC .15347 INC 5.1897 V1 30.279
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.459 GAP 1.35 AZP 94.68 TAL 164.47 TAP 10.19 RCA 108.70 APO 148.11 V2 34.789
 RC 96.038 GL 39.65 GP -26.81 ZAL 68.74 ZAP 105.55 ETS 353.51 ZAE 145.48 ETE 228.19 ZAC 109.61 ETC 175.15 CLP-107.48

PLANETOCENTRIC CONIC

C3 15.442 VHL 3.930 DLA 47.75 RAL 8.82 RAD 6567.6 VEL 11.697 PTH 2.06 VHP 3.094 DPA -22.97 RAP 22.55 ECC 1.2541
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.79 19 41 8 4212.91 -34.08 194.65 240.93 54.26 20 51 21 3612.9 -38.48 186.77
 130.21 3 49 13 2739.91 -34.06 79.42 240.92 54.25 4 34 53 2139.9 -38.46 71.55
 49.79 19 41 8 4212.91 -34.08 194.65 240.93 54.26 20 51 21 3612.9 -38.48 186.77
 130.21 3 49 13 2739.91 -34.06 79.42 240.92 54.25 4 34 53 2139.9 -38.46 71.55
 49.79 19 41 8 4212.91 -34.08 194.65 240.93 54.26 20 51 21 3612.9 -38.48 186.77
 130.21 3 49 13 2739.91 -34.06 79.42 240.92 54.25 4 34 53 2139.9 -38.46 71.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6082 TRA .2908 TC3-1.7870 BAU .4246 SGT 2805.1 SGR 2054.0 SG3 1408.9 ST 2352.8 SR 1712.8 SS 3411.0
 RDE 1.1617 RRA .3685 RC3-1.0180 FAU .16546 RRT .9766 RRF .9959 RTF .9701 CRT .9977 CRS -.9996 CST -.9955
 FDE 8.6174 FRA 3.4164 FC3-9.2767 BSP 10264 SGB 3476.7 R23 .1521 R13 .9843 LSA 4480.0 MSA 183.2 SSA 5.3
 BDE 1.9839 BRA .4853 BC3 2.0566 FSP -4754 SG1 3458.2 SG2 358.6 THA 36.02 EL1 2908.7 EL2 93.8 ALF 36.03

LAUNCH DATE DEC 24 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 467.339

RL 147.14 LAL .00 LOL 92.26 VL 27.751 GAL 2.85 AZL 85.05 MCA 208.89 SMA 128.37 ECC .15426 INC 4.9458 V1 30.279
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.453 GAP 1.72 AZP 94.33 TAL 164.05 TAP 12.94 RCA 108.57 APO 148.17 V2 34.787
 RC 98.436 GL 38.14 GP -23.79 ZAL 67.71 ZAP 110.39 ETS 352.01 ZAE 145.29 ETE 219.96 ZAC 107.67 ETC 173.32 CLP-112.38

PLANETOCENTRIC CONIC

C3 14.970 VHL 3.869 DLA 46.73 RAL 10.67 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 3.106 DPA -20.97 RAP 19.58 ECC 1.2464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.13 19 53 11 4194.23 -33.71 192.55 241.77 55.48 21 3 5 3594.2 -37.97 184.60
 128.87 3 51 55 2744.65 -33.70 79.58 241.76 55.47 4 37 39 2144.7 -37.96 71.63
 51.13 19 53 11 4194.23 -33.71 192.55 241.77 55.48 21 3 5 3594.2 -37.97 184.60
 128.87 3 51 55 2744.65 -33.70 79.58 241.76 55.47 4 37 39 2144.7 -37.96 71.63
 51.13 19 53 11 4194.23 -33.71 192.55 241.77 55.48 21 3 5 3594.2 -37.97 184.60
 128.87 3 51 55 2744.65 -33.70 79.58 241.76 55.47 4 37 39 2144.7 -37.96 71.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7475 TRA .4131 TC3-2.0996 BAU .4565 SGT 3183.2 SGR 1788.7 SG3 1394.7 ST 2602.1 SR 1477.9 SS 3295.2
 RDE .9856 RRA .3564 RC3 -.8919 FAU .16472 RRT .9810 RRF .9936 RTF .9756 CRT .9985 CRS -.9994 CST -.9960
 FDE 8.1366 FRA 3.6163 FC3-9.5262 BSP 10828 SGB 3651.3 R23 .1430 R13 .9833 LSA 4447.5 MSA 181.7 SSA 6.0
 BDE 2.0063 BRA .5456 BC3 2.2812 FSP -4745 SG1 3638.7 SG2 303.8 THA 29.09 EL1 2991.6 EL2 69.5 ALF 29.58

LAUNCH DATE DEC 24 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 473.535

RL 147.14 LAL .00 LOL 92.26 VL 27.744 GAL 2.95 AZL 85.25 MCA 212.05 SMA 128.32 ECC .15524 INC 4.7464 V1 30.279
 RP 108.94 LAP -2.52 LOP 304.21 VP 37.446 GAP 2.08 AZP 94.03 TAL 163.58 TAP 15.63 RCA 108.40 APO 148.24 V2 34.785
 RC 100.837 GL 36.77 GP -21.21 ZAL 66.68 ZAP 115.02 ETS 350.89 ZAE 144.40 ETE 212.92 ZAC 105.97 ETC 171.94 CLP-116.98

PLANETOCENTRIC CONIC

C3 14.668 VHL 3.830 DLA 45.85 RAL 12.42 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 3.152 DPA -19.24 RAP 17.10 ECC 1.2414
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.30 20 4 28 4178.82 -33.33 190.78 242.77 56.48 21 14 7 3578.8 -37.46 182.79
 127.70 3 54 39 2750.98 -33.31 79.86 242.76 56.47 4 40 30 2151.0 -37.45 71.87
 52.30 20 4 28 4178.82 -33.33 190.78 242.77 56.48 21 14 7 3578.8 -37.46 182.79
 127.70 3 54 39 2750.98 -33.31 79.86 242.76 56.47 4 40 30 2151.0 -37.45 71.87
 52.30 20 4 28 4178.82 -33.33 190.78 242.77 56.48 21 14 7 3578.8 -37.46 182.79
 127.70 3 54 39 2750.98 -33.31 79.86 242.76 56.47 4 40 30 2151.0 -37.45 71.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8709 TRA .5384 TC3-2.3848 BAU .4909 SGT 3536.6 SGR 1558.4 SG3 1355.4 ST 2820.8 SR 1283.6 SS 3165.0
 RDE .8465 RRA .3243 RC3 -.7611 FAU .15992 RRT .9824 RRF .9902 RTF .9790 CRT .9992 CRS -.9990 CST -.9963
 FDE 7.5974 FRA 3.7431 FC3-9.4392 BSP 11509 SGB 3864.7 R23 .1226 R13 .9832 LSA 4426.0 MSA 180.8 SSA 6.7
 BDE 2.0534 BRA .6286 BC3 2.5033 FSP -4621 SG1 3855.5 SG2 266.8 THA 23.53 EL1 3098.7 EL2 47.5 ALF 24.46

LAUNCH DATE DEC 24 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 479.711

RL 147.14 LAL .00 LOL 92.26 VL 27.735 GAL 3.07 AZL 85.42 MCA 215.21 SMA 128.26 ECC .15639 INC 4.5793 V1 30.279
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.438 GAP 2.45 AZP 93.74 TAL 163.07 TAP 18.28 RCA 108.20 APO 148.32 V2 34.784
 RC 103.240 GL 35.50 GP -18.99 ZAL 65.63 ZAP 119.39 ETS 350.06 ZAE 143.09 ETE 207.09 ZAC 104.55 ETC 170.92 CLP-121.26

PLANETOCENTRIC CONIC

C3 14.496 VHL 3.807 CLA 45.06 RAL 14.13 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 3.224 DPA -17.70 RAP 15.08 ECC 1.2386
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.36 20 15 14 4166.03 -32.92 189.28 243.91 57.30 21 24 40 3566.0 -36.96 181.27
 126.64 3 57 32 2758.55 -32.90 80.24 243.90 57.29 4 43 31 2158.5 -36.95 72.23
 53.36 20 15 14 4166.03 -32.92 189.28 243.91 57.30 21 24 40 3566.0 -36.96 181.27
 126.64 3 57 32 2758.55 -32.90 80.24 243.90 57.29 4 43 31 2158.5 -36.95 72.23
 53.36 20 15 14 4166.03 -32.92 189.28 243.91 57.30 21 24 40 3566.0 -36.96 181.27
 126.64 3 57 32 2758.55 -32.90 80.24 243.90 57.29 4 43 31 2158.5 -36.95 72.23

DIFFERENTIAL CORRECTIONS

TOE 1.9767 TRA .6636 TC3-2.6435 BAU .5271
 ROE .7347 RRA .2917 RC3 -.6385 FAU .15315
 FDE 7.0206 FRA 3.7898 FC3-9.1463 BSP 12308
 BOE 2.1088 BRA .7249 BC3 2.7196 FSP -4455

MID-COURSE EXECUTION ACCURACY

SGT 3859.9 SGR 1358.3 SG3 1296.9
 RRT .9815 RRF .9851 RTF .9814
 SGB 4091.9 R23 .0936 R13 .9836
 SG1 4084.6 SG2 245.6 THA 19.13

ORBIT DETERMINATION ACCURACY

ST 3005.3 SR 1121.3 SS 3019.9
 CRT .9997 CRS -.9983 CST -.9965
 LSA 4401.9 MSA 179.2 SSA 7.4
 EL1 3207.6 EL2 27.7 ALF 20.46

LAUNCH DATE DEC 24 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 485.868

RL 147.14 LAL .00 LOL 92.26 VL 27.725 GAL 3.19 AZL 85.56 MCA 218.37 SMA 128.19 ECC .15773 INC 4.4365 V1 30.279
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.431 GAP 2.81 AZP 93.48 TAL 162.52 TAP 20.88 RCA 107.97 APO 148.41 V2 34.783
 RC 105.643 GL 34.31 GP -17.07 ZAL 64.56 ZAP 123.48 ETS 349.46 ZAE 141.56 ETE 202.37 ZAC 103.43 ETC 170.17 CLP-125.24

PLANETOCENTRIC CONIC

C3 14.431 VHL 3.799 CLA 44.34 RAL 15.82 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 3.317 DPA -16.31 RAP 13.48 ECC 1.2375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.33 20 25 39 4155.37 -32.49 187.98 245.18 57.98 21 34 55 3555.4 -36.45 179.96
 125.67 4 0 36 2767.18 -32.48 80.71 245.17 57.97 4 46 43 2167.2 -36.44 72.69
 54.33 20 25 39 4155.37 -32.49 187.98 245.18 57.98 21 34 55 3555.4 -36.45 179.96
 125.67 4 0 36 2767.18 -32.48 80.71 245.17 57.97 4 46 43 2167.2 -36.44 72.69
 54.33 20 25 39 4155.37 -32.49 187.98 245.18 57.98 21 34 55 3555.4 -36.45 179.96
 125.67 4 0 36 2767.18 -32.48 80.71 245.17 57.97 4 46 43 2167.2 -36.44 72.69

DIFFERENTIAL CORRECTIONS

TOE 2.0680 TRA .7902 TC3-2.8715 BAU .5632
 ROE .6457 RRA .2611 RC3 -.5260 FAU .14495
 FDE 6.4448 FRA 3.7872 FC3-8.6957 BSP 13140
 BOE 2.1665 BRA .8322 BC3 2.9193 FSP -4250

MID-COURSE EXECUTION ACCURACY

SGT 4155.2 SGR 1188.1 SG3 1227.8
 RRT .9779 RRF .9777 RTF .9830
 SGB 4321.7 R23 .0631 R13 .9841
 SG1 4315.1 SG2 239.3 THA 15.67

ORBIT DETERMINATION ACCURACY

ST 3159.6 SR 987.9 SS 2869.8
 CRT .9999 CRS -.9973 CST -.9966
 LSA 4377.6 MSA 177.8 SSA 8.1
 EL1 3310.4 EL2 11.8 ALF 17.36

LAUNCH DATE DEC 24 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 492.005

RL 147.14 LAL .00 LOL 92.26 VL 27.713 GAL 3.33 AZL 85.69 MCA 221.53 SMA 128.11 ECC .15925 INC 4.3123 V1 30.279
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.422 GAP 3.16 AZP 93.23 TAL 161.92 TAP 23.44 RCA 107.71 APO 148.51 V2 34.783
 RC 108.045 GL 33.17 GP -15.42 ZAL 63.45 ZAP 127.28 ETS 349.01 ZAE 139.94 ETE 198.58 ZAC 102.61 ETC 169.62 CLP-128.93

PLANETOCENTRIC CONIC

C3 14.456 VHL 3.802 CLA 43.69 RAL 17.51 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 3.428 DPA -15.03 RAP 12.26 ECC 1.2379
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.22 20 35 55 4146.42 -32.05 186.85 246.58 58.55 21 45 2 3546.4 -35.95 178.83
 124.78 4 3 48 2776.90 -32.04 81.27 246.57 58.54 4 50 5 2176.9 -35.94 73.25
 55.22 20 35 55 4146.42 -32.05 186.85 246.58 58.55 21 45 2 3546.4 -35.95 178.83
 124.78 4 3 48 2776.90 -32.04 81.27 246.57 58.54 4 50 5 2176.9 -35.94 73.25
 55.22 20 35 55 4146.42 -32.05 186.85 246.58 58.55 21 45 2 3546.4 -35.95 178.83
 124.78 4 3 48 2776.90 -32.04 81.27 246.57 58.54 4 50 5 2176.9 -35.94 73.25

DIFFERENTIAL CORRECTIONS

TOE 2.1478 TRA .9195 TC3-3.0642 BAU .5978
 ROE .5757 RRA .2331 RC3 -.4241 FAU .13568
 FDE 5.8946 FRA 3.7526 FC3-8.1256 BSP 13941
 BOE 2.2236 BRA .9486 BC3 3.0934 FSP -4012

MID-COURSE EXECUTION ACCURACY

SGT 4424.6 SGR 1045.4 SG3 1153.5
 RRT .9709 RRF .9672 RTF .9841
 SGB 4546.4 R23 .0370 R13 .9847
 SG1 4539.9 SG2 244.2 THA 12.96

ORBIT DETERMINATION ACCURACY

ST 3288.0 SR 879.8 SS 2721.5
 CRT .9999 CRS -.9958 CST -.9966
 LSA 4354.4 MSA 176.6 SSA 8.8
 EL1 3403.7 EL2 11.8 ALF 14.98

LAUNCH DATE DEC 24 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 498.122

RL 147.14 LAL .00 LOL 92.26 VL 27.701 GAL 3.49 AZL 85.80 MCA 224.69 SMA 128.03 ECC .16096 INC 4.2027 V1 30.279
 RP 108.94 LAP -2.95 LOP 316.86 VP 37.414 GAP 3.52 AZP 92.99 TAL 161.28 TAP 25.96 RCA 107.42 APO 148.63 V2 34.784
 RC 110.446 GL 32.07 GP -13.98 ZAL 62.31 ZAP 130.81 ETS 348.69 ZAE 138.34 ETE 195.54 ZAC 102.08 ETC 169.24 CLP-132.34

PLANETOCENTRIC CONIC

C3 14.562 VHL 3.816 CLA 43.08 RAL 19.21 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 3.553 DPA -13.83 RAP 11.40 ECC 1.2397
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.07 20 46 5 4138.97 -31.59 185.85 248.10 59.04 21 55 4 3539.0 -35.43 177.85
 123.93 4 7 11 2787.61 -31.58 81.90 248.10 59.02 4 53 39 2187.6 -35.42 73.90
 56.07 20 46 5 4138.97 -31.59 185.85 248.10 59.04 21 55 4 3539.0 -35.43 177.85
 123.93 4 7 11 2787.61 -31.58 81.90 248.10 59.02 4 53 39 2187.6 -35.42 73.90
 56.07 20 46 5 4138.97 -31.59 185.85 248.10 59.04 21 55 4 3539.0 -35.43 177.85
 123.93 4 7 11 2787.61 -31.58 81.90 248.10 59.02 4 53 39 2187.6 -35.42 73.90

DIFFERENTIAL CORRECTIONS

TOE 2.2163 TRA 1.0519 TC3-3.2234 BAU .6309
 ROE .5208 RRA .2081 RC3 -.3350 FAU .12617
 FDE 5.3764 FRA 3.6959 FC3-7.5010 BSP 14722
 BOE 2.2767 BRA 1.0723 BC3 3.2408 FSP -3768

MID-COURSE EXECUTION ACCURACY

SGT 4669.2 SGR 927.2 SG3 1077.9
 RRT .9599 RRF .9531 RTF .9849
 SGB 4760.4 R23 .0171 R13 .9851
 SG1 4753.6 SG2 255.2 THA 10.82

ORBIT DETERMINATION ACCURACY

ST 3391.2 SR 792.4 SS 2575.8
 CRT .9995 CRS -.9936 CST -.9966
 LSA 4328.0 MSA 175.8 SSA 9.4
 EL1 3482.5 EL2 24.9 ALF 13.15

LAUNCH DATE DEC 24 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 504.219

RL 147.14 LAL .00 LOL 92.26 VL 27.687 GAL 3.66 AZL 85.90 MCA 227.85 SMA 127.93 ECC .16285 INC 4.1046 V1 30.279
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.405 GAP 3.88 AZP 92.76 TAL 160.59 TAP 28.44 RCA 107.10 APO 148.76 V2 34.786
 RC 112.844 GL 31.00 GP -12.73 ZAL 61.13 ZAP 134.09 ETS 348.46 ZAE 136.80 ETE 193.10 ZAC 101.82 ETC 168.97 CLP-135.50

PLANETOCENTRIC CONIC

C3 14.745 VHL 3.840 CLA 42.50 RAL 20.93 RAD 6567.6 VEL 11.667 PTH 2.05 VHP 3.692 DPA -12.70 RAP 10.86 ECC 1.2427
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.88 20 56 14 4132.77 -31.11 184.97 249.74 59.45 22 5 7 3532.8 -34.91 176.98
 123.12 4 10 42 2799.35 -31.10 82.60 249.73 59.44 4 57 22 2199.4 -34.90 74.62
 56.88 20 56 14 4132.77 -31.11 184.97 249.74 59.45 22 5 7 3532.8 -34.91 176.98
 123.12 4 10 42 2799.35 -31.10 82.60 249.73 59.44 4 57 22 2199.4 -34.90 74.62
 56.88 20 56 14 4132.77 -31.11 184.97 249.74 59.45 22 5 7 3532.8 -34.91 176.98
 123.12 4 10 42 2799.35 -31.10 82.60 249.73 59.44 4 57 22 2199.4 -34.90 74.62

DIFFERENTIAL CORRECTIONS

TDE 2.2789 TRA 1.1910 TC3-3.3408 BAU .6605
 RDE .4789 RRA .1864 RC3 -.2560 FAU .11616
 FDE 4.9070 FRA 3.6340 FC3-6.8204 BSP 15387
 BDE 2.3286 BRA 1.2055 BC3 3.3506 FSP -3502

MID-COURSE EXECUTION ACCURACY

SGT 4894.4 SGR 831.6 SG3 1004.4
 RRT .9443 RRF .9347 RTF .9854
 SGB 4964.5 R23 -.0043 R13 .9854
 SG1 4957.1 SG2 270.2 THA 9.14

ORBIT DETERMINATION ACCURACY

ST 3477.2 SR 723.5 SS 2440.0
 CRT .9985 CRS -.9907 CST -.9965
 LSA 4305.5 MSA 175.5 SSA 10.1
 EL1 3551.5 EL2 38.4 ALF 11.74

LAUNCH DATE DEC 24 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 510.294

RL 147.14 LAL .00 LOL 92.26 VL 27.672 GAL 3.84 AZL 85.98 MCA 231.01 SMA 127.83 ECC .16494 INC 4.0159 V1 30.279
 RP 108.93 LAP -3.12 LOP 323.19 VP 37.396 GAP 4.24 AZP 92.53 TAL 159.88 TAP 30.88 RCA 106.74 APO 148.91 V2 34.789
 RC 115.239 GL 29.95 GP -11.65 ZAL 59.91 ZAP 137.12 ETS 348.29 ZAE 135.34 ETE 191.12 ZAC 101.81 ETC 168.80 CLP-138.43

PLANETOCENTRIC CONIC

C3 15.001 VHL 3.873 CLA 41.94 RAL 22.66 RAD 6567.6 VEL 11.678 PTH 2.05 VHP 3.843 DPA -11.62 RAP 10.60 ECC 1.2469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.66 21 6 26 4127.65 -30.61 184.18 251.49 59.80 22 15 14 3527.6 -34.37 176.22
 122.34 4 14 19 2812.19 -30.60 83.39 251.48 59.79 5 1 11 2212.2 -34.36 75.43
 57.66 21 6 26 4127.65 -30.61 184.18 251.49 59.80 22 15 14 3527.6 -34.37 176.22
 122.34 4 14 19 2812.19 -30.60 83.39 251.48 59.79 5 1 11 2212.2 -34.36 75.43
 57.66 21 6 26 4127.65 -30.61 184.18 251.49 59.80 22 15 14 3527.6 -34.37 176.22
 122.34 4 14 19 2812.19 -30.60 83.39 251.48 59.79 5 1 11 2212.2 -34.36 75.43

DIFFERENTIAL CORRECTIONS

TDE 2.3296 TRA 1.3313 TC3-3.4342 BAU .6898
 RDE .4463 RRA .1667 RC3 -.1914 FAU .10702
 FDE 4.4671 FRA 3.5534 FC3-6.1763 BSP 16089
 BDE 2.3720 BRA 1.3417 BC3 3.4395 FSP -3269

MID-COURSE EXECUTION ACCURACY

SGT 5095.4 SGR 753.5 SG3 932.6
 RRT .9239 RRF .9117 RTF .9857
 SGB 5150.8 R23 -.0049 R13 .9857
 SG1 5142.9 SG2 285.6 THA 7.80

ORBIT DETERMINATION ACCURACY

ST 3537.4 SR 667.7 SS 2304.6
 CRT .9969 CRS -.9870 CST -.9965
 LSA 4270.8 MSA 175.3 SSA 10.7
 EL1 3599.5 EL2 51.5 ALF 10.66

LAUNCH DATE DEC 24 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 516.349

RL 147.14 LAL .00 LOL 92.26 VL 27.656 GAL 4.04 AZL 86.07 MCA 234.17 SMA 127.72 ECC .16724 INC 3.9347 V1 30.279
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.387 GAP 4.60 AZP 92.31 TAL 159.12 TAP 33.29 RCA 106.36 APO 149.08 V2 34.792
 RC 117.630 GL 28.91 GP -10.70 ZAL 58.66 ZAP 139.93 ETS 348.15 ZAE 134.00 ETE 189.51 ZAC 102.03 ETC 168.69 CLP-141.15

PLANETOCENTRIC CONIC

C3 15.332 VHL 3.916 CLA 41.40 RAL 24.40 RAD 6567.6 VEL 11.693 PTH 2.06 VHP 4.003 DPA -10.58 RAP 10.59 ECC 1.2523
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.44 21 16 42 4123.45 -30.09 183.47 253.33 60.10 22 25 26 3523.5 -33.82 175.53
 121.56 4 17 59 2826.17 -30.08 84.26 253.32 60.09 5 5 5 2226.2 -33.80 76.33
 58.44 21 16 42 4123.45 -30.09 183.47 253.33 60.10 22 25 26 3523.5 -33.82 175.53
 121.56 4 17 59 2826.17 -30.08 84.26 253.32 60.09 5 5 5 2226.2 -33.80 76.33
 58.44 21 16 42 4123.45 -30.09 183.47 253.33 60.10 22 25 26 3523.5 -33.82 175.53
 121.56 4 17 59 2826.17 -30.08 84.26 253.32 60.09 5 5 5 2226.2 -33.80 76.33

DIFFERENTIAL CORRECTIONS

TDE 2.3733 TRA 1.4770 TC3-3.4954 BAU .7170
 RDE .4221 RRA .1496 RC3 -.1373 FAU .09828
 FDE 4.0674 FRA 3.4693 FC3-5.5495 BSP 16736
 BDE 2.4106 BRA 1.4845 BC3 3.4981 FSP -3045

MID-COURSE EXECUTION ACCURACY

SGT 5277.8 SGR 691.5 SG3 864.5
 RRT .8987 RRF .8843 RTF .9859
 SGB 5322.9 R23 -.0108 R13 .9859
 SG1 5314.4 SG2 301.1 THA 6.74

ORBIT DETERMINATION ACCURACY

ST 3579.7 SR 623.8 SS 2175.6
 CRT .9945 CRS -.9823 CST -.9964
 LSA 4231.5 MSA 175.6 SSA 11.2
 EL1 3633.0 EL2 64.2 ALF 9.84

LAUNCH DATE DEC 24 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 522.381

RL 147.14 LAL .00 LOL 92.26 VL 27.639 GAL 4.26 AZL 86.14 MCA 237.33 SMA 127.60 ECC .16974 INC 3.8598 V1 30.279
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.378 GAP 4.97 AZP 92.09 TAL 158.33 TAP 35.66 RCA 105.94 APO 149.26 V2 34.796
 RC 120.015 GL 27.88 GP -9.86 ZAL 57.38 ZAP 142.55 ETS 348.04 ZAE 132.76 ETE 188.20 ZAC 102.46 ETC 168.63 CLP-143.69

PLANETOCENTRIC CONIC

C3 15.739 VHL 3.967 CLA 40.87 RAL 26.16 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 4.174 DPA -9.56 RAP 10.81 ECC 1.2590
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.20 21 27 5 4120.06 -29.54 182.81 255.26 60.37 22 35 45 3520.1 -33.24 174.91
 120.80 4 21 39 2841.37 -29.53 85.20 255.25 60.35 5 9 1 2241.4 -33.23 77.31
 59.20 21 27 5 4120.06 -29.54 182.81 255.26 60.37 22 35 45 3520.1 -33.24 174.91
 120.80 4 21 39 2841.37 -29.53 85.20 255.25 60.35 5 9 1 2241.4 -33.23 77.31
 59.20 21 27 5 4120.06 -29.54 182.81 255.26 60.37 22 35 45 3520.1 -33.24 174.91
 120.80 4 21 39 2841.37 -29.53 85.20 255.25 60.35 5 9 1 2241.4 -33.23 77.31

DIFFERENTIAL CORRECTIONS

TDE 2.4112 TRA 1.6295 TC3-3.5255 BAU .7421
 RDE .4049 RRA .1351 RC3 -.0926 FAU .08992
 FDE 3.7076 FRA 3.3878 FC3-4.9464 BSP 17328
 BDE 2.4449 BRA 1.6351 BC3 3.5267 FSP -2830

MID-COURSE EXECUTION ACCURACY

SGT 5444.0 SGR 643.4 SG3 801.0
 RRT .8694 RRF .8533 RTF .9860
 SGB 5481.8 R23 -.0138 R13 .9859
 SG1 5472.7 SG2 316.2 THA 5.89

ORBIT DETERMINATION ACCURACY

ST 3606.3 SR 589.8 SS 2054.5
 CRT .9913 CRS -.9766 CST -.9963
 LSA 4188.4 MSA 176.6 SSA 11.7
 EL1 3653.4 EL2 76.5 ALF 9.21

LAUNCH DATE DEC 24 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

RL 147.14 LAL .00 LOL 92.26 VL 27.621 GAL 4.49 AZL 86.21 MCA 240.49 SMA 127.48 ECC .17246 INC 3.7900 VI 30.279
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.369 GAP 5.34 AZP 91.87 TAL 157.51 TAP 38.01 RCA 105.50 APO 149.47 V2 34.800
 RC 122.394 GL 26.86 GP -9.13 ZAL 56.07 ZAP 144.99 ETS 347.94 ZAE 131.63 ETE 187.12 ZAC 103.07 ETC 168.60 CLP-146.05

PLANETOCENTRIC CONIC

C3 16.224 VHL 4.028 DLA 40.34 RAL 27.94 RAD 6567.7 VEL 11.731 PTH 2.07 VHP 4.354 DPA -8.57 RAP 11.22 ECC 1.2670
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.97 21 37 36 4117.37 -28.97 182.21 257.28 60.59 22 46 13 3517.4 -32.64 174.35
 120.03 4 25 18 2857.86 -28.96 86.24 257.27 60.58 5 12 56 2257.9 -32.63 78.38
 59.97 21 37 36 4117.37 -28.97 182.21 257.28 60.59 22 46 13 3517.4 -32.64 174.35
 120.03 4 25 18 2857.86 -28.96 86.24 257.27 60.58 5 12 56 2257.9 -32.63 78.38
 59.97 21 37 36 4117.37 -28.97 182.21 257.28 60.59 22 46 13 3517.4 -32.64 174.35
 120.03 4 25 18 2857.86 -28.96 86.24 257.27 60.58 5 12 56 2257.9 -32.63 78.38

DIFFERENTIAL CORRECTIONS

TOE 2.4440 TRA 1.7893 TC3-3.5270 BAU .7651
 RDE .3933 RRA .1230 RC3 -.0566 FAU .08212
 FDE 3.3840 FRA 3.3091 FC3-4.3821 BSP 17869
 BOE 2.4754 BRA 1.7935 BC3 3.5275 FSP -2629

MID-COURSE EXECUTION ACCURACY

SGT 5595.6 SGR 606.5 SG3 742.1
 RRT .8373 RRF .8201 RTF .9860
 SGB 5628.3 R23 -.0152 R13 .9859
 SG1 5618.6 SG2 330.3 TMA 5.20

ORBIT DETERMINATION ACCURACY

ST 3618.9 SR 563.7 SS 1940.7
 CRT .9873 CRS -.9700 CST -.9962
 LSA 4141.1 MSA 178.2 SSA 12.2
 EL1 3661.5 EL2 88.5 ALF 8.75

LAUNCH DATE DEC 24 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

RL 147.14 LAL .00 LOL 92.26 VL 27.602 GAL 4.74 AZL 86.28 MCA 243.66 SMA 127.36 ECC .17542 INC 3.7244 VI 30.279
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.361 GAP 5.72 AZP 91.65 TAL 156.66 TAP 40.32 RCA 105.02 APO 149.70 V2 34.805
 RC 124.766 GL 25.85 GP -8.49 ZAL 54.73 ZAP 147.26 ETS 347.83 ZAE 130.60 ETE 186.22 ZAC 103.84 ETC 168.60 CLP-148.26

PLANETOCENTRIC CONIC

C3 16.794 VHL 4.098 DLA 39.82 RAL 29.72 RAD 6567.7 VEL 11.755 PTH 2.07 VHP 4.543 DPA -7.59 RAP 11.81 ECC 1.2764
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.75 21 48 15 4115.29 -28.37 181.65 259.38 60.79 22 56 50 3515.3 -32.02 173.83
 119.25 4 28 53 2875.74 -28.35 87.37 259.37 60.78 5 16 48 2275.7 -32.01 79.55
 60.75 21 48 15 4115.29 -28.37 181.65 259.38 60.79 22 56 50 3515.3 -32.02 173.83
 119.25 4 28 53 2875.74 -28.35 87.37 259.37 60.78 5 16 48 2275.7 -32.01 79.55
 60.75 21 48 15 4115.29 -28.37 181.65 259.38 60.79 22 56 50 3515.3 -32.02 173.83
 119.25 4 28 53 2875.74 -28.35 87.37 259.37 60.78 5 16 48 2275.7 -32.01 79.55

DIFFERENTIAL CORRECTIONS

TOE 2.4741 TRA 1.9590 TC3-3.4967 BAU .7851
 RDE .3867 RRA .1133 RC3 -.0274 FAU .07464
 FDE 3.0962 FRA 3.2373 FC3-3.8477 BSP 18312
 BOE 2.5042 BRA 1.9622 BC3 3.4968 FSP -2432

MID-COURSE EXECUTION ACCURACY

SGT 5735.4 SGR 579.2 SG3 688.0
 RRT .8039 RRF .7865 RTF .9859
 SGB 5764.6 R23 -.0150 R13 .9858
 SG1 5754.4 SG2 343.3 TMA 4.66

ORBIT DETERMINATION ACCURACY

ST 3621.8 SR 544.2 SS 1835.7
 CRT .9825 CRS -.9626 CST -.9961
 LSA 4092.7 MSA 180.5 SSA 12.6
 EL1 3661.1 EL2 100.3 ALF 8.40

LAUNCH DATE DEC 24 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

RL 147.14 LAL .00 LOL 92.26 VL 27.583 GAL 5.00 AZL 86.34 MCA 246.82 SMA 127.23 ECC .17861 INC 3.6622 VI 30.279
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.352 GAP 6.10 AZP 91.44 TAL 155.79 TAP 42.61 RCA 104.50 APO 149.95 V2 34.811
 RC 127.128 GL 24.84 GP -7.92 ZAL 53.38 ZAP 149.40 ETS 347.71 ZAE 129.67 ETE 185.48 ZAC 104.77 ETC 168.61 CLP-150.34

PLANETOCENTRIC CONIC

C3 17.454 VHL 4.178 DLA 39.29 RAL 31.51 RAD 6567.7 VEL 11.783 PTH 2.08 VHP 4.741 DPA -6.62 RAP 12.56 ECC 1.2873
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.53 21 59 3 4113.74 -27.73 181.11 261.55 60.97 23 7 37 3513.7 -31.37 173.34
 118.47 4 32 19 2895.09 -27.72 88.60 261.55 60.95 5 20 34 2295.1 -31.36 80.82
 61.53 21 59 3 4113.74 -27.73 181.11 261.55 60.97 23 7 37 3513.7 -31.37 173.34
 118.47 4 32 19 2895.09 -27.72 88.60 261.55 60.95 5 20 34 2295.1 -31.36 80.82
 61.53 21 59 3 4113.74 -27.73 181.11 261.55 60.97 23 7 37 3513.7 -31.37 173.34
 118.47 4 32 19 2895.09 -27.72 88.60 261.55 60.95 5 20 34 2295.1 -31.36 80.82

DIFFERENTIAL CORRECTIONS

TOE 2.4968 TRA 2.1345 TC3-3.4495 BAU .8049
 RDE .3837 RRA .1054 RC3 -.0058 FAU .06800
 FDE 2.8316 FRA 3.1647 FC3-3.3728 BSP 18785
 BOE 2.5261 BRA 2.1371 BC3 3.4495 FSP -2262

MID-COURSE EXECUTION ACCURACY

SGT 5860.0 SGR 558.5 SG3 637.7
 RRT .7708 RRF .7532 RTF .9857
 SGB 5886.5 R23 -.0146 R13 .9857
 SG1 5875.8 SG2 354.8 TMA 4.22

ORBIT DETERMINATION ACCURACY

ST 3608.3 SR 529.2 SS 1733.8
 CRT .9769 CRS -.9543 CST -.9961
 LSA 4033.9 MSA 183.4 SSA 12.9
 EL1 3645.2 EL2 111.9 ALF 8.16

LAUNCH DATE DEC 24 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

RL 147.14 LAL .00 LOL 92.26 VL 27.563 GAL 5.29 AZL 86.40 MCA 249.99 SMA 127.09 ECC .18207 INC 3.6030 VI 30.279
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.343 GAP 6.49 AZP 91.23 TAL 154.89 TAP 44.88 RCA 103.95 APO 150.23 V2 34.818
 RC 129.481 GL 23.84 GP -7.41 ZAL 52.00 ZAP 151.40 ETS 347.57 ZAE 128.82 ETE 184.86 ZAC 105.82 ETC 168.63 CLP-152.30

PLANETOCENTRIC CONIC

C3 18.213 VHL 4.268 DLA 38.76 RAL 33.29 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 4.948 DPA -5.67 RAP 13.44 ECC 1.2997
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.34 22 10 1 4112.63 -27.07 180.61 263.79 61.12 23 18 34 3512.6 -30.69 172.88
 117.66 4 35 35 2916.00 -27.05 89.93 263.78 61.11 5 24 11 2316.0 -30.68 82.20
 62.34 22 10 1 4112.63 -27.07 180.61 263.79 61.12 23 18 34 3512.6 -30.69 172.88
 117.66 4 35 35 2916.00 -27.05 89.93 263.78 61.11 5 24 11 2316.0 -30.68 82.20
 62.34 22 10 1 4112.63 -27.07 180.61 263.79 61.12 23 18 34 3512.6 -30.69 172.88
 117.66 4 35 35 2916.00 -27.05 89.93 263.78 61.11 5 24 11 2316.0 -30.68 82.20

DIFFERENTIAL CORRECTIONS

TOE 2.5157 TRA 2.3192 TC3-3.3798 BAU .8230
 RDE .3841 RRA .0995 RC3 .0105 FAU .06183
 FDE 2.5941 FRA 3.0971 FC3-2.9389 BSP 19220
 BOE 2.5449 BRA 2.3213 BC3 3.3798 FSP -2105

MID-COURSE EXECUTION ACCURACY

SGT 5972.9 SGR 543.4 SG3 591.4
 RRT .7393 RRF .7222 RTF .9855
 SGB 5997.6 R23 -.0135 R13 .9855
 SG1 5986.4 SG2 365.1 TMA 3.86

ORBIT DETERMINATION ACCURACY

ST 3584.7 SR 518.2 SS 1638.8
 CRT .9707 CRS -.9454 CST -.9960
 LSA 3971.1 MSA 187.0 SSA 13.1
 EL1 3619.9 EL2 123.4 ALF 8.00

LAUNCH DATE DEC 24 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 552.179

RL 147.14 LAL .00 LOL 92.26 VL 27.543 GAL 5.59 AZL 86.45 MCA 253.16 SMA 126.96 ECC .18580 INC 3.5460 VI 30.279
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.335 GAP 6.89 AZP 91.03 TAL 153.96 TAP 47.12 RCA 103.37 APO 150.55 V2 34.825
 RC 131.823 GL 22.84 GP -6.96 ZAL 50.62 ZAP 153.30 ETS 347.40 ZAE 128.06 ETE 184.33 ZAC 107.00 ETC 168.65 CLP-154.15

PLANETOCENTRIC CONIC

C3 19.080 VHL 4.368 CLA 38.23 RAL 35.07 RAD 6567.8 VEL 11.852 PTH 2.10 VHP 5.165 CPA -4.71 RAP 14.44 ECC 1.3140
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.17 22 21 9 4111.90 -26.37 180.12 266.09 61.26 23 29 41 3511.9 -29.99 172.44
 116.83 4 38 38 2938.57 -26.36 91.37 266.08 61.24 5 27 37 2338.6 -29.97 83.69
 63.17 22 21 9 4111.90 -26.37 180.12 266.09 61.26 23 29 41 3511.9 -29.99 172.44
 116.83 4 38 38 2938.57 -26.36 91.37 266.08 61.24 5 27 37 2338.6 -29.97 83.69
 63.17 22 21 9 4111.90 -26.37 180.12 266.09 61.26 23 29 41 3511.9 -29.99 172.44
 116.83 4 38 38 2938.57 -26.36 91.37 266.08 61.24 5 27 37 2338.6 -29.97 83.69

DIFFERENTIAL CORRECTIONS

TDE 2.5315 TRA 2.5145 TC3-3.2895 BAU .8391
 RDE .3872 RRA .0955 RC3 .0222 FAU .05610
 FDE 2.3804 FRA 3.0353 FC3-2.5454 BSP 19619
 BDE 2.5610 BRA 2.5163 BC3 3.2896 FSP -1959

MID-COURSE EXECUTION ACCURACY

SGT 6075.7 SGR 532.7 SG3 549.0
 RRT .7107 RRF .6944 RTF .9852
 SGB 6099.0 R23 -.0120 R13 .9852
 SGI 6087.6 SG2 374.0 TMA 3.58

ORBIT DETERMINATION ACCURACY

ST 3552.6 SR 510.2 SS 1550.0
 CRT .9638 CRS -.9359 CST -.9959
 LSA 3904.7 MSA 191.2 SSA 13.3
 EL1 3586.5 EL2 134.7 ALF 7.89

LAUNCH DATE DEC 24 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 558.056

RL 147.14 LAL .00 LOL 92.26 VL 27.522 GAL 5.92 AZL 86.51 MCA 256.33 SMA 126.82 ECC .18983 INC 3.4909 VI 30.279
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.327 GAP 7.30 AZP 90.83 TAL 153.02 TAP 49.35 RCA 102.74 APO 150.89 V2 34.833
 RC 134.153 GL 21.85 GP -6.56 ZAL 49.23 ZAP 155.09 ETS 347.19 ZAE 127.36 ETE 183.89 ZAC 108.27 ETC 168.66 CLP-155.91

PLANETOCENTRIC CONIC

C3 20.066 VHL 4.479 CLA 37.69 RAL 36.84 RAD 6567.8 VEL 11.893 PTH 2.11 VHP 5.391 CPA -3.77 RAP 15.56 ECC 1.3302
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.02 22 32 26 4111.51 -25.64 179.64 268.44 61.38 23 40 58 3511.5 -29.25 172.01
 115.98 4 41 26 2962.86 -25.63 92.92 268.43 61.37 5 30 49 2362.9 -29.24 85.29
 64.02 22 32 26 4111.51 -25.64 179.64 268.44 61.38 23 40 58 3511.5 -29.25 172.01
 115.98 4 41 26 2962.86 -25.63 92.92 268.43 61.37 5 30 49 2362.9 -29.24 85.29
 64.02 22 32 26 4111.51 -25.64 179.64 268.44 61.38 23 40 58 3511.5 -29.25 172.01
 115.98 4 41 26 2962.86 -25.63 92.92 268.43 61.37 5 30 49 2362.9 -29.24 85.29

DIFFERENTIAL CORRECTIONS

TDE 2.5474 TRA 2.7239 TC3-3.1756 BAU .8519
 RDE .3929 RRA .0935 RC3 .0304 FAU .05062
 FDE 2.1915 FRA 2.9820 FC3-2.1840 BSP 19909
 BDE 2.5776 BRA 2.7255 BC3 3.1757 FSP -1816

MID-COURSE EXECUTION ACCURACY

SGT 6171.9 SGR 525.5 SG3 510.5
 RRT .6861 RRF .6711 RTF .9849
 SGB 6194.3 R23 -.0100 R13 .9849
 SGI 6182.5 SG2 381.7 TMA 3.36

ORBIT DETERMINATION ACCURACY

ST 3516.9 SR 504.6 SS 1469.4
 CRT .9564 CRS -.9261 CST -.9958
 LSA 3839.8 MSA -195.9 SSA 13.4
 EL1 3549.9 EL2 145.9 ALF 7.83

LAUNCH DATE DEC 24 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 563.899

RL 147.14 LAL .00 LOL 92.26 VL 27.500 GAL 6.27 AZL 86.56 MCA 259.50 SMA 126.67 ECC .19418 INC 3.4372 VI 30.279
 RP 108.77 LAP -3.38 LOP 351.73 VP 37.319 GAP 7.73 AZP 90.63 TAL 152.06 TAP 51.56 RCA 102.08 APO 151.27 V2 34.841
 RC 136.471 GL 20.86 GP -6.20 ZAL 47.84 ZAP 156.79 ETS 346.93 ZAE 126.73 ETE 183.52 ZAC 109.64 ETC 168.67 CLP-157.58

PLANETOCENTRIC CONIC

C3 21.185 VHL 4.603 CLA 37.14 RAL 38.58 RAD 6567.9 VEL 11.940 PTH 2.12 VHP 5.629 CPA -2.83 RAP 16.77 ECC 1.3487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.90 22 43 56 4111.27 -24.88 179.16 270.84 61.49 23 52 27 3511.3 -28.48 171.58
 115.10 4 43 53 2989.08 -24.86 94.60 270.84 61.48 5 33 42 2389.1 -28.47 87.02
 64.90 22 43 56 4111.27 -24.88 179.16 270.84 61.49 23 52 27 3511.3 -28.48 171.58
 115.10 4 43 53 2989.08 -24.86 94.60 270.84 61.48 5 33 42 2389.1 -28.47 87.02
 64.90 22 43 56 4111.27 -24.88 179.16 270.84 61.49 23 52 27 3511.3 -28.48 171.58
 115.10 4 43 53 2989.08 -24.86 94.60 270.84 61.48 5 33 42 2389.1 -28.47 87.02

DIFFERENTIAL CORRECTIONS

TDE 2.5569 TRA 2.9414 TC3-3.0537 BAU .8649
 RDE .4003 RRA .0931 RC3 .0350 FAU .04578
 FDE 2.0169 FRA 2.9295 FC3-1.8709 BSP 20253
 BDE 2.5881 BRA 2.9429 BC3 3.0539 FSP -1694

MID-COURSE EXECUTION ACCURACY

SGT 6255.3 SGR 520.1 SG3 474.8
 RRT .6650 RRF .6512 RTF .9846
 SGB 6276.9 R23 -.0082 R13 .9846
 SGI 6264.9 SG2 387.9 TMA 3.18

ORBIT DETERMINATION ACCURACY

ST 3469.4 SR 500.3 SS 1391.7
 CRT .9485 CRS -.9158 CST -.9958
 LSA 3766.0 MSA 201.2 SSA 13.5
 EL1 3501.8 EL2 157.0 ALF 7.80

LAUNCH DATE DEC 24 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 569.706

RL 147.14 LAL .00 LOL 92.26 VL 27.478 GAL 6.64 AZL 86.62 MCA 262.67 SMA 126.53 ECC .19887 INC 3.3847 VI 30.279
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.311 GAP 8.17 AZP 90.43 TAL 151.09 TAP 53.76 RCA 101.36 APO 151.69 V2 34.850
 RC 138.775 GL 19.88 GP -5.88 ZAL 46.45 ZAP 158.41 ETS 346.61 ZAE 126.15 ETE 183.21 ZAC 111.10 ETC 168.67 CLP-159.18

PLANETOCENTRIC CONIC

C3 22.453 VHL 4.739 CLA 36.58 RAL 40.31 RAD 6567.9 VEL 11.993 PTH 2.14 VHP 5.877 CPA -1.89 RAP 18.06 ECC 1.3695
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.81 22 55 37 4111.17 -24.08 178.68 273.29 61.60 24 4 8 3511.2 -27.68 171.16
 114.19 4 45 58 3017.26 -24.07 96.40 273.28 61.58 5 36 15 2417.3 -27.67 88.88
 65.81 22 55 37 4111.17 -24.08 178.68 273.29 61.60 24 4 8 3511.2 -27.68 171.16
 114.19 4 45 58 3017.26 -24.07 96.40 273.28 61.58 5 36 15 2417.3 -27.67 88.88
 65.81 22 55 37 4111.17 -24.08 178.68 273.29 61.60 24 4 8 3511.2 -27.68 171.16
 114.19 4 45 58 3017.26 -24.07 96.40 273.28 61.58 5 36 15 2417.3 -27.67 88.88

DIFFERENTIAL CORRECTIONS

TDE 2.5643 TRA 3.1717 TC3-2.9183 BAU .8761
 RDE .4094 RRA .0946 RC3 .0370 FAU .04129
 FDE 1.8596 FRA 2.8821 FC3-1.5921 BSP 20574
 BDE 2.5968 BRA 3.1731 BC3 2.9186 FSP -1581

MID-COURSE EXECUTION ACCURACY

SGT 6330.1 SGR 516.3 SG3 442.0
 RRT .6480 RRF .6354 RTF .9843
 SGB 6351.1 R23 -.0064 R13 .9842
 SGI 6339.0 SG2 392.7 TMA 3.04

ORBIT DETERMINATION ACCURACY

ST 3416.6 SR 496.9 SS 1319.6
 CRT .9401 CRS -.9051 CST -.9958
 LSA 3690.3 MSA 206.8 SSA 13.5
 EL1 3448.5 EL2 167.8 ALF 7.80

LAUNCH DATE DEC 24 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 575.473

RL 147.14 LAL .00 LOL 92.26 VL 27.456 GAL 7.04 AZL 86.67 MCA 265.84 SMA 126.38 ECC .20394 INC 3.3328 V1 30.279
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.303 GAP 8.62 AZP 90.24 TAL 150.11 TAP 55.95 RCA 100.61 APO 152.15 V2 34.860
 RC 141.067 GL 18.91 GP -5.59 ZAL 45.06 ZAP 159.95 ETS 346.21 ZAE 125.63 ETE 182.95 ZAC 112.62 ETC 168.66 CLP-160.72

PLANETOCENTRIC CONIC

C3 23.890 VHL 4.888 DLA 36.01 RAL 42.01 RAD 6568.0 VEL 12.053 PTH 2.15 VHP 6.138 DPA -.96 RAP 19.43 ECC 1.3932
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.75 23 7 28 4111.20 -23.26 178.20 275.78 61.69 24 16 0 3511.2 -26.85 170.72
 113.25 4 47 39 3047.47 -23.24 98.34 275.77 61.68 5 38 27 2447.5 -26.84 90.87
 66.75 23 7 28 4111.20 -23.26 178.20 275.78 61.69 24 16 0 3511.2 -26.85 170.72
 113.25 4 47 39 3047.47 -23.24 98.34 275.77 61.68 5 38 27 2447.5 -26.84 90.87
 66.75 23 7 28 4111.20 -23.26 178.20 275.78 61.69 24 16 0 3511.2 -26.85 170.72
 113.25 4 47 39 3047.47 -23.24 98.34 275.77 61.68 5 38 27 2447.5 -26.84 90.87

DIFFERENTIAL CORRECTIONS

TDE 2.5702 TRA 3.4161 TC3-2.7715 BAU .8852
 RDE .4200 RRA .0978 RC3 .0372 FAU .03713
 FDE 1.7179 FRA 2.8399 FC3-1.3454 BSP 20857
 BOE 2.6043 BRA 3.4175 BC3 2.7717 FSP -1476

MID-COURSE EXECUTION ACCURACY

SGT 6397.4 SGR 515.6 SG3 411.9
 RRT .6350 RRF .6236 RTF .9839
 SGB 6418.0 R23 -.0046 R13 .9839
 SG1 6405.8 SG2 396.3 THA 2.93

ORBIT DETERMINATION ACCURACY

ST 3360.0 SR 494.1 SS 1253.0
 CRT .9313 CRS -.8942 CST -.9957
 LSA 3613.7 MSA 212.7 SSA 13.4
 EL1 3391.5 EL2 178.3 ALF 7.82

LAUNCH DATE DEC 24 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 581.197

RL 147.14 LAL .00 LOL 92.26 VL 27.433 GAL 7.47 AZL 86.72 MCA 269.02 SMA 126.23 ECC .20942 INC 3.2813 V1 30.279
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.296 GAP 9.10 AZP 90.06 TAL 149.11 TAP 58.13 RCA 99.80 APO 152.66 V2 34.870
 RC 143.344 GL 17.95 GP -5.33 ZAL 45.69 ZAP 161.44 ETS 345.73 ZAE 125.15 ETE 182.73 ZAC 114.21 ETC 168.63 CLP-162.19

PLANETOCENTRIC CONIC

C3 25.516 VHL 5.051 DLA 35.44 RAL 43.67 RAD 6568.0 VEL 12.120 PTH 2.17 VHP 6.413 DPA -.03 RAP 20.87 ECC 1.4199
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.73 23 19 34 4111.14 -22.40 177.69 278.30 61.79 24 28 5 3511.1 -25.99 170.27
 112.27 4 48 51 3079.93 -22.39 100.43 278.30 61.78 5 40 11 2479.9 -25.98 93.01
 67.73 23 19 34 4111.14 -22.40 177.69 278.30 61.79 24 28 5 3511.1 -25.99 170.27
 112.27 4 48 51 3079.93 -22.39 100.43 278.30 61.78 5 40 11 2479.9 -25.98 93.01
 67.73 23 19 34 4111.14 -22.40 177.69 278.30 61.79 24 28 5 3511.1 -25.99 170.27
 112.27 4 48 51 3079.93 -22.39 100.43 278.30 61.78 5 40 11 2479.9 -25.98 93.01

DIFFERENTIAL CORRECTIONS

TDE 2.5746 TRA 3.6752 TC3-2.6151 BAU .8922
 RDE .4317 RRA .1027 RC3 .0360 FAU .03325
 FDE 1.5899 FRA 2.8025 FC3-1.1282 BSP 21119
 BOE 2.6106 BRA 3.6766 BC3 2.6154 FSP -1380

MID-COURSE EXECUTION ACCURACY

SGT 6456.8 SGR 511.4 SG3 384.2
 RRT .6256 RRF .6155 RTF .9836
 SGB 6477.0 R23 -.0029 R13 .9836
 SG1 6464.7 SG2 398.5 THA 2.85

ORBIT DETERMINATION ACCURACY

ST 3300.1 SR 491.5 SS 1191.5
 CRT .9221 CRS -.8830 CST -.9958
 LSA 3536.1 MSA 218.7 SSA 13.3
 EL1 3331.2 EL2 188.4 ALF 7.84

LAUNCH DATE DEC 24 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 586.871

RL 147.14 LAL .00 LOL 92.26 VL 27.410 GAL 7.92 AZL 86.77 MCA 272.19 SMA 126.08 ECC .21534 INC 3.2298 V1 30.279
 RP 108.65 LAP -3.23 LOP 4.45 VP 37.289 GAP 9.59 AZP 89.88 TAL 148.12 TAP 60.31 RCA 98.93 APO 153.23 V2 34.880
 RC 145.608 GL 17.00 GP -5.09 ZAL 42.34 ZAP 162.87 ETS 345.14 ZAE 124.71 ETE 182.54 ZAC 115.85 ETC 168.58 CLP-163.62

PLANETOCENTRIC CONIC

C3 27.360 VHL 5.231 DLA 34.87 RAL 45.30 RAD 6568.1 VEL 12.196 PTH 2.19 VHP 6.703 DPA .89 RAP 22.37 ECC 1.4503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.75 23 31 53 4110.90 -21.51 177.16 280.86 61.88 24 40 24 3510.9 -25.10 169.79
 111.25 4 49 32 3114.75 -21.50 102.67 280.85 61.87 5 41 27 2514.8 -25.09 95.30
 68.75 23 31 53 4110.90 -21.51 177.16 280.86 61.88 24 40 24 3510.9 -25.10 169.79
 111.25 4 49 32 3114.75 -21.50 102.67 280.85 61.87 5 41 27 2514.8 -25.09 95.30
 68.75 23 31 53 4110.90 -21.51 177.16 280.86 61.88 24 40 24 3510.9 -25.10 169.79
 111.25 4 49 32 3114.75 -21.50 102.67 280.85 61.87 5 41 27 2514.8 -25.09 95.30

DIFFERENTIAL CORRECTIONS

TDE 2.5814 TRA 3.9538 TC3-2.4470 BAU .8951
 RDE .4446 RRA .1097 RC3 .0340 FAU .02951
 FDE 1.4770 FRA 2.7724 FC3 -.9337 BSP 21278
 BOE 2.6194 BRA 3.9553 BC3 2.4472 FSP -1284

MID-COURSE EXECUTION ACCURACY

SGT 6512.3 SGR 509.7 SG3 359.1
 RRT .6201 RRF .6113 RTF .9833
 SGB 6532.2 R23 -.0010 R13 .9833
 SG1 6520.0 SG2 399.4 THA 2.79

ORBIT DETERMINATION ACCURACY

ST 3241.7 SR 489.0 SS 1136.6
 CRT .9125 CRS -.8719 CST -.9958
 LSA 3462.5 MSA 224.7 SSA 13.2
 EL1 3272.4 EL2 198.1 ALF 7.87

LAUNCH DATE DEC 24 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 592.490

RL 147.14 LAL .00 LOL 92.26 VL 27.387 GAL 8.41 AZL 86.82 MCA 275.37 SMA 125.93 ECC .22176 INC 3.1782 V1 30.279
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.282 GAP 10.12 AZP 89.70 TAL 147.12 TAP 62.50 RCA 98.00 APO 153.85 V2 34.891
 RC 147.857 GL 16.07 GP -4.88 ZAL 41.00 ZAP 164.25 ETS 344.42 ZAE 124.29 ETE 182.39 ZAC 117.54 ETC 168.51 CLP-165.00

PLANETOCENTRIC CONIC

C3 29.451 VHL 5.427 DLA 34.28 RAL 46.89 RAD 6568.2 VEL 12.281 PTH 2.21 VHP 7.010 DPA 1.80 RAP 23.93 ECC 1.4847
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.82 23 44 29 4110.28 -20.60 176.59 283.45 61.97 24 52 59 3510.3 -24.18 169.27
 110.18 4 49 36 3152.14 -20.58 105.08 283.44 61.96 5 42 8 2552.1 -24.17 97.76
 69.82 23 44 29 4110.28 -20.60 176.59 283.45 61.97 24 52 59 3510.3 -24.18 169.27
 110.18 4 49 36 3152.14 -20.58 105.08 283.44 61.96 5 42 8 2552.1 -24.17 97.76
 69.82 23 44 29 4110.28 -20.60 176.59 283.45 61.97 24 52 59 3510.3 -24.18 169.27
 110.18 4 49 36 3152.14 -20.58 105.08 283.44 61.96 5 42 8 2552.1 -24.17 97.76

DIFFERENTIAL CORRECTIONS

TDE 2.5832 TRA 4.2456 TC3-2.2804 BAU .8980
 RDE .4580 RRA .1181 RC3 .0310 FAU .02620
 FDE 1.3718 FRA 2.7437 FC3 -.7702 BSP 21511
 BOE 2.6235 BRA 4.2473 BC3 2.2806 FSP -1203

MID-COURSE EXECUTION ACCURACY

SGT 6556.9 SGR 507.7 SG3 335.6
 RRT .6171 RRF .6092 RTF .9831
 SGB 6576.5 R23 .0004 R13 .9831
 SG1 6564.4 SG2 399.0 THA 2.75

ORBIT DETERMINATION ACCURACY

ST 3176.8 SR 485.7 SS 1084.1
 CRT .9025 CRS -.8603 CST -.9959
 LSA 3383.7 MSA 230.6 SSA 13.0
 EL1 3207.0 EL2 207.2 ALF 7.89

LAUNCH DATE DEC 24 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 598.047

RL 147.14 LAL .00 LOL 92.26 VL 27.364 GAL 8.94 AZL 86.87 MCA 278.55 SMA 125.78 ECC .22871 INC 3.1259 V1 30.279
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.275 GAP 10.67 AZP 89.53 TAL 146.13 TAP 64.68 RCA 97.01 APO 154.54 V2 34.902
 RC 150.092 GL 15.15 GP -4.68 ZAL 39.69 ZAP 165.59 ETS 343.52 ZAE 123.91 ETE 182.25 ZAC 119.27 ETC 168.41 CLP-166.35

PLANETOCENTRIC CONIC

C3 31.828 VHL 5.642 DLA 33.69 RAL 48.43 RAD 6568.3 VEL 12.377 PTH 2.23 VHP 7.335 DPA 2.70 RAP 25.53 ECC 1.5238
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.93 0 1 18 4109.20 -19.66 175.97 286.06 62.07 1 9 48 3509.2 -23.24 168.70
 109.07 4 49 2 3192.18 -19.64 107.67 286.05 62.06 5 42 14 2592.2 -23.22 100.40
 70.93 0 1 18 4109.20 -19.66 175.97 286.06 62.07 1 9 48 3509.2 -23.24 168.70
 109.07 4 49 2 3192.18 -19.64 107.67 286.05 62.06 5 42 14 2592.2 -23.22 100.40
 110.00 5 38 34 3040.70 -24.02 98.24 288.40 64.92 6 29 15 2440.7 -27.20 90.51
 110.00 4 10 56 3308.67 -15.39 114.22 283.54 59.10 5 6 5 2708.7 -19.38 107.37

DIFFERENTIAL CORRECTIONS

TDE 2.5854 TRA 4.5569 TC3-2.1094 BAU .8977
 ROE .4722 RRA .1285 RC3 .0277 FAU .02307
 FDE 1.2771 FRA 2.7203 FC3 -.6276 BSP 21712
 BOE 2.6282 BRA 4.5587 BC3 2.1096 FSP -1127

MID-COURSE EXECUTION ACCURACY

SGT 6595.3 SGR 505.5 SG3 314.0
 RRT .6170 RRF .6099 RTF .9829
 SGB 6614.7 R23 .0016 R13 .9829
 SGI 6602.7 SGI 397.4 THA 2.72

ORBIT DETERMINATION ACCURACY

ST 3111.9 SR 481.9 SS 1036.5
 CRT .8920 CRS -.8487 CST -.9960
 LSA 3306.8 MSA 236.2 SSA 12.8
 EL1 3141.6 EL2 215.7 ALF 7.90

LAUNCH DATE DEC 24 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 603.531

RL 147.14 LAL .00 LOL 92.26 VL 27.341 GAL 9.51 AZL 86.93 MCA 281.74 SMA 125.62 ECC .23627 INC 3.0728 V1 30.279
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.269 GAP 11.25 AZP 89.37 TAL 145.14 TAP 66.88 RCA 95.94 APO 155.30 V2 34.914
 RC 152.312 GL 14.24 GP -4.51 ZAL 38.41 ZAP 166.88 ETS 342.42 ZAE 123.54 ETE 182.15 ZAC 121.04 ETC 168.29 CLP-167.67

PLANETOCENTRIC CONIC

C3 34.534 VHL 5.877 DLA 33.10 RAL 49.93 RAD 6568.4 VEL 12.486 PTH 2.26 VHP 7.681 DPA 3.60 RAP 27.17 ECC 1.5683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.10 0 14 35 4107.30 -18.69 175.29 288.69 62.17 1 23 2 3507.3 -22.26 168.06
 107.90 4 47 41 3235.23 -18.68 110.46 288.68 62.16 5 41 36 2635.2 -22.25 103.23
 72.10 0 14 35 4107.30 -18.69 175.29 288.69 62.17 1 23 2 3507.3 -22.26 168.06
 107.90 4 47 41 3235.23 -18.68 110.46 288.68 62.16 5 41 36 2635.2 -22.25 103.23
 110.00 6 5 45 2995.51 -25.30 95.34 292.13 66.20 6 55 40 2395.5 -28.29 87.45
 110.00 3 55 42 3395.01 -12.32 119.02 284.87 57.86 4 52 17 2795.0 -16.47 112.38

DIFFERENTIAL CORRECTIONS

TDE 2.5879 TRA 4.8889 TC3-1.9370 BAU .8944
 ROE .4869 RRA .1407 RC3 .0244 FAU .02015
 FDE 1.1919 FRA 2.7018 FC3 -.5051 BSP 21892
 BOE 2.6333 BRA 4.8909 BC3 1.9372 FSP -1057

MID-COURSE EXECUTION ACCURACY

SGT 6627.6 SGR 503.0 SG3 294.1
 RRT .6192 RRF .6128 RTF .9828
 SGB 6646.6 R23 .0027 R13 .9828
 SGI 6634.9 SGI 394.5 THA 2.70

ORBIT DETERMINATION ACCURACY

ST 3047.1 SR 477.3 SS 993.3
 CRT .8813 CRS -.8370 CST -.9962
 LSA 3231.2 MSA 241.4 SSA 12.6
 EL1 3076.2 EL2 223.4 ALF 7.90

LAUNCH DATE DEC 24 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 608.933

RL 147.14 LAL .00 LOL 92.26 VL 27.317 GAL 10.12 AZL 86.98 MCA 284.92 SMA 125.47 ECC .24450 INC 3.0183 V1 30.279
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.263 GAP 11.86 AZP 89.22 TAL 144.17 TAP 69.10 RCA 94.79 APO 156.15 V2 34.926
 RC 154.516 GL 13.35 GP -4.35 ZAL 37.17 ZAP 168.15 ETS 341.05 ZAE 123.19 ETE 182.05 ZAC 122.83 ETC 168.14 CLP-168.96

PLANETOCENTRIC CONIC

C3 37.624 VHL 6.134 DLA 32.50 RAL 51.37 RAD 6568.5 VEL 12.609 PTH 2.29 VHP 8.050 DPA 4.48 RAP 28.85 ECC 1.6192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.34 0 28 18 4104.30 -17.70 174.51 291.33 62.28 1 36 43 3504.3 -21.27 167.33
 106.66 4 45 29 3281.52 -17.69 113.47 291.33 62.28 5 40 11 2681.5 -21.25 106.29
 73.34 0 28 18 4104.30 -17.70 174.51 291.33 62.28 1 36 43 3504.3 -21.27 167.33
 106.66 4 45 29 3281.52 -17.69 113.47 291.33 62.28 5 40 11 2681.5 -21.25 106.29
 110.00 6 27 20 2967.41 -26.06 93.51 295.59 67.05 7 16 47 2367.4 -28.93 85.51
 110.00 3 45 38 3466.41 -9.70 122.89 286.53 57.06 4 43 25 2866.4 -13.97 116.40

DIFFERENTIAL CORRECTIONS

TDE 2.5952 TRA 5.2473 TC3-1.7603 BAU .8855
 ROE .5023 RRA .1549 RC3 .0213 FAU .01729
 FDE 1.1174 FRA 2.6903 FC3 -.3978 BSP 21955
 BOE 2.6434 BRA 5.2496 BC3 1.7604 FSP -986

MID-COURSE EXECUTION ACCURACY

SGT 6657.1 SGR 500.2 SG3 276.0
 RRT .6240 RRF .6183 RTF .9828
 SGB 6675.8 R23 .0038 R13 .9828
 SGI 6664.4 SGI 390.5 THA 2.69

ORBIT DETERMINATION ACCURACY

ST 2986.8 SR 472.0 SS 955.8
 CRT .8704 CRS -.8259 CST -.9964
 LSA 3161.7 MSA 245.8 SSA 12.4
 EL1 3015.0 EL2 230.2 ALF 7.88

LAUNCH DATE DEC 24 1968

FLIGHT TIME 220.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 614.238

RL 147.14 LAL .00 LOL 92.26 VL 27.293 GAL 10.78 AZL 87.04 MCA 288.11 SMA 125.32 ECC .25347 INC 2.9622 V1 30.279
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.257 GAP 12.52 AZP 89.08 TAL 143.22 TAP 71.33 RCA 93.55 APO 157.08 V2 34.938
 RC 156.704 GL 12.47 GP -4.20 ZAL 35.96 ZAP 169.38 ETS 339.30 ZAE 122.85 ETE 181.98 ZAC 124.64 ETC 167.96 CLP-170.24

PLANETOCENTRIC CONIC

C3 41.163 VHL 6.416 DLA 31.90 RAL 52.76 RAD 6568.6 VEL 12.749 PTH 2.32 VHP 8.445 DPA 5.35 RAP 30.56 ECC 1.6774
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.65 0 42 39 4099.57 -16.69 173.59 294.00 62.41 1 50 58 3499.6 -20.25 166.45
 105.35 4 42 13 3331.67 -16.67 116.73 293.99 62.40 5 37 45 2731.7 -20.23 109.60
 74.65 0 42 39 4099.57 -16.69 173.59 294.00 62.41 1 50 58 3499.6 -20.25 166.45
 105.35 4 42 13 3331.67 -16.67 116.73 293.99 62.40 5 37 45 2731.7 -20.23 109.60
 110.00 6 46 3 2948.10 -26.56 92.24 298.93 67.65 7 35 11 2348.1 -29.35 84.17
 110.00 3 38 0 3531.13 -7.29 126.35 288.34 56.51 4 36 51 2931.1 -11.64 119.96

DIFFERENTIAL CORRECTIONS

TDE 2.5992 TRA 5.6260 TC3-1.5901 BAU .8751
 ROE .5177 RRA .1708 RC3 .0183 FAU .01472
 FDE 1.0478 FRA 2.6814 FC3 -.3095 BSP 22114
 BOE 2.6503 BRA 5.6286 BC3 1.5902 FSP -926

MID-COURSE EXECUTION ACCURACY

SGT 6676.5 SGR 496.6 SG3 259.0
 RRT .6300 RRF .6247 RTF .9829
 SGB 6695.0 R23 .0044 R13 .9829
 SGI 6683.9 SGI 385.2 THA 2.69

ORBIT DETERMINATION ACCURACY

ST 2923.0 SR 465.5 SS 920.6
 CRT .8591 CRS -.8143 CST -.9966
 LSA 3089.6 MSA 249.7 SSA 12.1
 EL1 2950.4 EL2 236.0 ALF 7.84

LAUNCH DATE DEC 25 1968

FLIGHT TIME 70.00

ARRIVAL DATE MAR 5 1969

MELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 19.069 GAL 15.88 AZL 85.90 MCA 49.27 SMA 92.14 ECC .63597 INC 4.0962 V1 30.281
 RP 107.49 LAP 3.10 LOP 142.47 VP 32.076 GAP -38.50 AZP 87.32 TAL 170.40 TAP 219.67 RCA 33.54 APO 150.73 V2 35.254
 RC 63.173 GL 5.71 GP 1.45 ZAL 66.29 ZAP 26.94 ETS 183.04 ZAE 145.19 ETE 192.13 ZAC 83.85 ETC 166.03 CLP 26.91

PLANETOCENTRIC CONIC
 C3 173.437 VHL 13.170 DLA 15.77 RAL 23.03 RAD 6570.9 VEL 17.169 PTH 2.94 VHP 22.450 DPA -5.97 RAP 351.04 ECC 3.8543
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 52 3223.55 -25.76 112.39 287.83 77.82 5 26 36 2623.6 -27.18 104.01
 90.00 20 43 0 4840.99 19.14 209.32 274.72 68.72 22 3 41 4241.0 16.08 201.98
 100.00 6 2 56 2933.14 -27.58 91.47 288.27 78.00 6 51 49 2333.1 -28.96 82.93
 100.00 21 55 38 4606.63 20.87 191.36 273.99 68.10 23 12 24 4006.6 17.71 183.99
 110.00 7 30 31 2659.06 -32.38 71.81 289.43 78.41 8 14 50 2059.1 -33.64 62.80
 110.00 22 44 31 4453.48 25.39 177.68 271.92 66.30 23 58 45 3853.5 21.97 170.20

DIFFERENTIAL CORRECTIONS
 TDE -.6171 TRA-1.6168 TC3 -.1118 BAU .2639
 RDE -.9393 RRA .3669 RC3 -.0211 FAU .01354
 FDE .3381 FRA .6359 FC3 -.0676 BSP 2221
 BDE 1.1238 BRA 1.6579 BC3 .1138 FSP -67

MID-COURSE EXECUTION ACCURACY
 SGT 832.5 SGR 444.5 SG3 31.9
 RRT .0131 RRF -.0154 RTF -.6423
 SGB 943.7 R23 -.0036 R13 -.6423
 SG1 832.5 SG2 444.5 THA .56

ORBIT DETERMINATION ACCURACY
 ST 346.7 SR 411.7 SS 330.9
 CRT .6922 CRS .7947 CST .9865
 LSA 590.0 MSA 225.7 SSA 13.7
 EL1 496.7 EL2 207.4 ALF 52.00

LAUNCH DATE DEC 25 1968

FLIGHT TIME 72.00

ARRIVAL DATE MAR 7 1969

MELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 19.714 GAL 15.20 AZL 86.00 MCA 52.52 SMA 93.76 ECC .60862 INC 4.0035 V1 30.281
 RP 107.50 LAP 3.18 LOP 145.72 VP 32.461 GAP -36.67 AZP 87.56 TAL 169.68 TAP 222.20 RCA 36.70 APO 150.83 V2 35.251
 RC 61.231 GL 6.08 GP 1.50 ZAL 65.24 ZAP 25.41 ETS 183.44 ZAE 145.97 ETE 192.86 ZAC 85.49 ETC 166.13 CLP 25.37

PLANETOCENTRIC CONIC
 C3 157.064 VHL 12.533 DLA 16.50 RAL 23.91 RAD 6570.7 VEL 16.685 PTH 2.89 VHP 21.527 DPA -5.25 RAP 352.60 ECC 3.5849
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 29 23 3233.56 -25.62 113.09 287.70 77.50 5 23 17 2633.6 -27.08 104.73
 90.00 20 53 32 4796.89 18.02 206.56 274.42 67.78 22 13 29 4196.9 14.86 199.32
 100.00 6 0 2 2941.24 -27.47 92.04 288.15 77.72 6 49 3 2341.2 -28.88 83.52
 100.00 22 5 34 4564.45 19.78 188.71 273.65 67.12 23 21 38 3964.5 16.51 181.44
 110.00 7 28 52 2663.31 -32.33 72.13 289.35 78.23 8 13 15 2063.3 -33.61 63.13
 110.00 22 53 14 4415.14 24.32 175.22 271.48 65.20 24 6 49 3815.1 20.77 167.87

DIFFERENTIAL CORRECTIONS
 TDE -.6151 TRA-1.6163 TC3 -.1171 BAU .2508
 RDE -.9042 RRA .3452 RC3 -.0235 FAU .01379
 FDE .3512 FRA .6584 FC3 -.0760 BSP 2388
 BDE 1.0936 BRA 1.6528 BC3 .1194 FSP -75

MID-COURSE EXECUTION ACCURACY
 SGT 871.3 SGR 448.8 SG3 34.6
 RRT .0170 RRF -.0195 RTF -.6619
 SGB 980.1 R23 -.0041 R13 -.6619
 SG1 871.4 SG2 448.7 THA .68

ORBIT DETERMINATION ACCURACY
 ST 364.2 SR 416.3 SS 346.4
 CRT .6916 CRS .7960 CST .9861
 LSA 610.0 MSA 231.7 SSA 13.9
 EL1 509.7 EL2 214.9 ALF 50.49

LAUNCH DATE DEC 25 1968

FLIGHT TIME 74.00

ARRIVAL DATE MAR 9 1969

MELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 20.315 GAL 14.54 AZL 86.08 MCA 55.76 SMA 95.38 ECC .58204 INC 3.9185 V1 30.281
 RP 107.51 LAP 3.24 LOP 148.98 VP 32.825 GAP -34.93 AZP 87.79 TAL 168.99 TAP 224.75 RCA 39.87 APO 150.90 V2 35.248
 RC 59.338 GL 6.47 GP 1.55 ZAL 64.27 ZAP 23.90 ETS 183.89 ZAE 146.87 ETE 193.66 ZAC 87.16 ETC 166.21 CLP 23.85

PLANETOCENTRIC CONIC
 C3 142.314 VHL 11.930 DLA 17.22 RAL 24.74 RAD 6570.5 VEL 16.237 PTH 2.85 VHP 20.639 DPA -4.51 RAP 354.16 ECC 3.3421
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 37 3242.77 -25.48 113.73 287.43 77.21 5 19 40 2642.8 -26.99 105.38
 90.00 21 3 52 4752.06 16.85 203.80 274.06 66.90 22 23 4 4152.1 13.58 196.65
 100.00 5 56 53 2948.45 -27.36 92.55 287.90 77.47 6 46 2 2348.4 -28.81 84.05
 100.00 22 15 17 4521.62 18.62 186.05 273.25 66.18 23 30 39 3921.6 15.24 178.89
 110.00 7 26 59 2666.58 -32.28 72.37 289.13 78.09 8 11 25 2066.6 -33.58 63.38
 110.00 23 1 41 4376.25 23.18 172.77 270.99 64.15 24 14 37 3776.3 19.52 165.55

DIFFERENTIAL CORRECTIONS
 TDE -.6157 TRA-1.6173 TC3 -.1226 BAU .2384
 RDE -.8694 RRA .3239 RC3 -.0260 FAU .01406
 FDE .3651 FRA .6813 FC3 -.0855 BSP 2509
 BDE 1.0653 BRA 1.6494 BC3 .1253 FSP -83

MID-COURSE EXECUTION ACCURACY
 SGT 913.4 SGR 452.5 SG3 37.6
 RRT .0222 RRF -.0243 RTF -.6805
 SGB 1019.3 R23 -.0043 R13 -.6805
 SG1 913.5 SG2 452.5 THA .83

ORBIT DETERMINATION ACCURACY
 ST 383.4 SR 420.4 SS 362.6
 CRT .6921 CRS .7976 CST .9859
 LSA 631.5 MSA 237.3 SSA 14.1
 EL1 523.9 EL2 222.1 ALF 48.79

LAUNCH DATE DEC 25 1968

FLIGHT TIME 76.00

ARRIVAL DATE MAR 11 1969

MELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 20.876 GAL 13.90 AZL 86.16 MCA 59.01 SMA 97.00 ECC .55626 INC 3.8398 V1 30.281
 RP 107.52 LAP 3.29 LOP 152.23 VP 33.171 GAP -33.29 AZP 88.02 TAL 168.32 TAP 227.33 RCA 43.04 APO 150.95 V2 35.243
 RC 57.501 GL 6.86 GP 1.61 ZAL 63.36 ZAP 22.40 ETS 184.39 ZAE 147.91 ETE 194.53 ZAC 88.83 ETC 166.28 CLP 22.35

PLANETOCENTRIC CONIC
 C3 129.010 VHL 11.358 DLA 17.93 RAL 25.50 RAD 6570.4 VEL 15.822 PTH 2.80 VHP 19.783 DPA -3.75 RAP 355.74 ECC 3.1232
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 21 33 3251.23 -25.35 114.31 287.03 76.94 5 15 44 2651.2 -26.90 105.99
 90.00 21 14 1 4706.47 15.61 201.03 273.64 66.07 22 32 27 4106.5 12.25 193.96
 100.00 5 53 28 2954.82 -27.27 93.00 287.52 77.25 6 42 43 2354.8 -28.75 84.51
 100.00 22 24 47 4478.11 17.40 183.40 272.79 65.31 23 39 25 3878.1 13.93 176.33
 110.00 7 24 52 2668.87 -32.25 72.54 288.78 77.99 8 9 21 2068.9 -33.56 63.56
 110.00 23 9 53 4336.82 21.99 170.33 270.44 63.15 24 22 10 3736.8 18.21 163.23

DIFFERENTIAL CORRECTIONS
 TDE -.6150 TRA-1.6156 TC3 -.1271 BAU .2246
 RDE -.8349 RRA .3028 RC3 -.0286 FAU .01437
 FDE .3793 FRA .7046 FC3 -.0964 BSP 2678
 BDE 1.0370 BRA 1.6437 BC3 .1302 FSP -91

MID-COURSE EXECUTION ACCURACY
 SGT 955.7 SGR 455.4 SG3 40.9
 RRT .0273 RRF -.0295 RTF -.6986
 SGB 1058.6 R23 -.0049 R13 -.6987
 SG1 955.8 SG2 455.2 THA .96

ORBIT DETERMINATION ACCURACY
 ST 402.9 SR 423.9 SS 379.2
 CRT .6926 CRS .7994 CST .9856
 LSA 653.4 MSA 242.4 SSA 14.3
 EL1 538.2 EL2 228.9 ALF 47.10

LAUNCH DATE DEC 25 1968

FLIGHT TIME 78.00

ARRIVAL DATE MAR 13 1969

HELIOCENTRIC CONIC

DISTANCE 166.654

RL 147.13 LAL .00 LOL 93.27 VL 21.399 GAL 13.27 AZL 86.23 MCA 62.25 SMA 98.59 ECC .53135 INC 3.7664 V1 30.281
 RP 107.54 LAP 3.33 LOP 155.48 VP 33.497 GAP -31.72 AZP 88.24 TAL 167.67 TAP 229.93 RCA 46.20 APO 150.97 V2 35.238
 RC 55.726 GL 7.27 GP 1.67 ZAL 62.52 ZAP 20.93 ETS 184.96 ZAE 149.09 ETE 195.50 ZAC 90.52 ETC 166.34 CLP 20.86

PLANETOCENTRIC CONIC

C3 117.003 VHL 10.817 OLA 18.62 RAL 26.20 RAD 6570.2 VEL 15.438 PTH 2.76 VHP 18.958 DPA -2.98 RAP 357.32 ECC 2.9256
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 17 10 3259.02 -25.23 114.85 286.51 76.70 5 11 29 2659.0 -26.81 106.54
 90.00 21 23 59 4660.10 14.31 198.24 273.16 65.30 22 41 40 4060.1 10.86 191.26
 100.00 5 49 46 2960.40 -27.18 93.39 287.01 77.06 6 39 6 2360.4 -28.69 84.91
 100.00 22 34 4 4433.95 16.13 180.74 272.28 64.49 23 47 58 3833.9 12.56 173.76
 110.00 7 22 30 2670.25 -32.23 72.64 288.30 77.93 8 7 1 2070.3 -33.55 63.66
 110.00 23 17 50 4296.86 20.74 167.90 269.84 62.20 24 29 26 3696.9 16.86 160.93

DIFFERENTIAL CORRECTIONS

TDE -.6147 TRA-1.6127 TC3 -.1308 BAU .2104
 RDE -.8007 RRA .2822 RC3 -.0314 FAU .01472
 FDE .3941 FRA .7281 FC3 -.1089 BSP 2858
 BOE 1.0094 BRA 1.6372 BC3 .1345 FSP -101

MID-COURSE EXECUTION ACCURACY

SGT 999.3 SGR 457.6 SG3 44.5
 RRT .0331 RRF -.0355 RTF -.7161
 SGB 1099.1 R23 -.0055 R13 -.7161
 SG1 999.5 SG2 457.3 THA 1.10

ORBIT DETERMINATION ACCURACY

ST 423.3 SR 426.8 SS 396.3
 CRT .6936 CRS .8014 CST .9854
 LSA 676.2 MSA 246.9 SSA 14.5
 EL1 553.2 EL2 235.3 ALF 45.34

LAUNCH DATE DEC 25 1968

FLIGHT TIME 80.00

ARRIVAL DATE MAR 15 1969

HELIOCENTRIC CONIC

DISTANCE 173.012

RL 147.13 LAL .00 LOL 93.27 VL 21.887 GAL 12.67 AZL 86.30 MCA 65.50 SMA 100.16 ECC .50733 INC 3.6972 V1 30.281
 RP 107.56 LAP 3.36 LOP 158.73 VP 33.805 GAP -30.22 AZP 88.46 TAL 167.06 TAP 232.56 RCA 49.35 APO 150.98 V2 35.232
 RC 54.021 GL 7.68 GP 1.74 ZAL 61.74 ZAP 19.46 ETS 185.62 ZAE 150.41 ETE 196.58 ZAC 92.22 ETC 166.38 CLP 19.39

PLANETOCENTRIC CONIC

C3 106.159 VHL 10.303 OLA 19.30 RAL 26.84 RAD 6570.0 VEL 15.083 PTH 2.71 VHP 18.162 DPA -2.20 RAP 358.91 ECC 2.7471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 12 27 3266.21 -25.12 115.35 285.85 76.48 5 6 53 2666.2 -26.73 107.05
 90.00 21 33 48 4612.96 12.95 195.45 272.63 64.60 22 50 41 4013.0 9.42 188.54
 100.00 5 45 46 2965.27 -27.11 93.73 286.37 76.90 6 35 12 2365.3 -28.64 85.27
 100.00 22 43 10 4389.13 14.79 178.08 271.71 63.73 23 56 19 3789.1 11.14 171.19
 110.00 7 19 54 2670.76 -32.22 72.68 287.69 77.91 8 4 25 2070.8 -33.55 63.70
 110.00 23 25 31 4256.41 19.44 165.48 269.18 61.31 24 36 27 3656.4 15.46 158.63

DIFFERENTIAL CORRECTIONS

TDE -.6148 TRA-1.6087 TC3 -.1337 BAU .1958
 RDE -.7670 RRA .2620 RC3 -.0343 FAU .01510
 FDE .4098 FRA .7522 FC3 -.1232 BSP 3043
 BOE .9830 BRA 1.6299 BC3 .1380 FSP -112

MID-COURSE EXECUTION ACCURACY

SGT 1044.6 SGR 459.1 SG3 48.3
 RRT .0396 RRF -.0422 RTF -.7328
 SGB 1141.0 R23 -.0062 R13 -.7328
 SG1 1044.8 SG2 458.6 THA 1.24

ORBIT DETERMINATION ACCURACY

ST 444.8 SR 429.0 SS 414.2
 CRT .6953 CRS .8038 CST .9852
 LSA 700.2 MSA 250.9 SSA 14.7
 EL1 569.0 EL2 241.0 ALF 43.52

LAUNCH DATE DEC 25 1968

FLIGHT TIME 82.00

ARRIVAL DATE MAR 17 1969

HELIOCENTRIC CONIC

DISTANCE 179.429

RL 147.13 LAL .00 LOL 93.27 VL 22.343 GAL 12.08 AZL 86.37 MCA 68.74 SMA 101.71 ECC .48424 INC 3.6315 V1 30.281
 RP 107.58 LAP 3.38 LOP 161.97 VP 34.095 GAP -28.79 AZP 88.68 TAL 166.48 TAP 235.21 RCA 52.46 APO 150.96 V2 35.226
 RC 52.393 GL 8.10 GP 1.81 ZAL 61.04 ZAP 18.01 ETS 186.38 ZAE 151.88 ETE 197.80 ZAC 93.92 ETC 166.40 CLP 17.92

PLANETOCENTRIC CONIC

C3 96.361 VHL 9.816 OLA 19.96 RAL 27.41 RAD 6569.9 VEL 14.755 PTH 2.67 VHP 17.394 DPA -1.40 RAP .50 ECC 2.5859
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 7 23 3272.90 -25.01 115.81 285.07 76.27 5 1 56 2672.9 -26.65 107.53
 90.00 21 43 27 4565.05 11.53 192.64 272.04 63.96 22 59 32 3965.0 7.94 185.81
 100.00 5 41 28 2969.50 -27.04 94.03 285.61 76.75 6 30 58 2369.5 -28.60 85.57
 100.00 22 52 3 4343.68 13.41 175.41 271.08 63.03 24 4 26 3743.7 9.68 168.60
 110.00 7 17 3 2670.45 -32.23 72.66 286.95 77.93 8 1 34 2070.5 -33.55 63.68
 110.00 23 32 57 4215.49 18.09 163.09 268.47 60.49 24 43 12 3615.5 14.02 156.33

DIFFERENTIAL CORRECTIONS

TDE -.6178 TRA-1.6059 TC3 -.1364 BAU .1822
 RDE -.7337 RRA .2422 RC3 -.0374 FAU .01552
 FDE .4267 FRA .7772 FC3 -.1394 BSP 3178
 BOE .9592 BRA 1.6240 BC3 .1414 FSP -123

MID-COURSE EXECUTION ACCURACY

SGT 1093.7 SGR 459.8 SG3 52.5
 RRT .0480 RRF -.0500 RTF -.7483
 SGB 1186.4 R23 -.0065 R13 -.7484
 SG1 1094.0 SG2 459.2 THA 1.40

ORBIT DETERMINATION ACCURACY

ST 468.6 SR 430.6 SS 433.1
 CRT .6985 CRS .8066 CST .9852
 LSA 726.5 MSA 254.1 SSA 14.8
 EL1 587.0 EL2 246.0 ALF 41.55

LAUNCH DATE DEC 25 1968

FLIGHT TIME 84.00

ARRIVAL DATE MAR 19 1969

HELIOCENTRIC CONIC

DISTANCE 185.902

RL 147.13 LAL .00 LOL 93.27 VL 22.768 GAL 11.51 AZL 86.43 MCA 71.98 SMA 103.22 ECC .46207 INC 3.5687 V1 30.281
 RP 107.60 LAP 3.39 LOP 165.22 VP 34.367 GAP -27.42 AZP 88.89 TAL 165.93 TAP 237.91 RCA 55.53 APO 150.92 V2 35.219
 RC 50.852 GL 8.54 GP 1.90 ZAL 60.40 ZAP 16.57 ETS 187.28 ZAE 153.50 ETE 199.21 ZAC 95.63 ETC 166.40 CLP 16.47

PLANETOCENTRIC CONIC

C3 87.506 VHL 9.354 OLA 20.60 RAL 27.92 RAD 6569.7 VEL 14.452 PTH 2.62 VHP 16.652 DPA -.59 RAP 2.09 ECC 2.4401
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 1 57 3279.18 -24.91 116.24 284.16 76.08 4 56 36 2679.2 -26.58 107.97
 90.00 21 52 57 4516.38 10.07 189.82 271.40 63.39 23 8 13 3916.4 6.41 183.05
 100.00 5 36 52 2973.15 -26.99 94.29 284.73 76.63 6 26 25 2373.2 -28.56 85.84
 100.00 23 0 44 4297.64 11.97 172.75 270.40 62.40 24 12 21 3697.6 8.18 166.01
 110.00 7 13 57 2669.38 -32.24 72.58 286.09 77.97 7 58 27 2069.4 -33.56 63.59
 110.00 23 40 7 4174.18 16.68 160.70 267.72 59.72 24 49 41 3574.2 12.54 154.05

DIFFERENTIAL CORRECTIONS

TDE -.6194 TRA-1.5997 TC3 -.1372 BAU .1673
 RDE -.7011 RRA .2229 RC3 -.0405 FAU .01600
 FDE .4443 FRA .8026 FC3 -.1583 BSP 3368
 BOE .9355 BRA 1.6152 BC3 .1430 FSP -136

MID-COURSE EXECUTION ACCURACY

SGT 1142.6 SGR 459.8 SG3 57.2
 RRT .0565 RRF -.0586 RTF -.7635
 SGB 1231.6 R23 -.0072 R13 -.7636
 SG1 1142.9 SG2 458.9 THA 1.55

ORBIT DETERMINATION ACCURACY

ST 492.5 SR 431.6 SS 452.6
 CRT .7017 CRS .8097 CST .9852
 LSA 753.4 MSA 256.7 SSA 15.0
 EL1 605.2 EL2 250.3 ALF 39.66

LAUNCH DATE DEC 25 1968

FLIGHT TIME 86.00

ARRIVAL DATE MAR 21 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 23.164 GAL 10.96 AZL 86.49 MCA 75.22 SMA 104.71 ECC .44084 INC 3.5082 V1 30.281
 RP 107.62 LAP 3.39 LOP 168.47 VP 34.623 GAP -26.11 A7P 89.10 TAL 165.42 TAP 240.63 RCA 58.55 APO 150.87 V2 35.211
 RC 49.405 GL 8.98 GP 1.99 ZAL 59.83 ZAP 15.14 ETS 188.36 ZAE 155.26 ETE 200.84 ZAC 97.33 ETC 166.38 CLP 15.01

PLANETOCENTRIC CONIC

C3 79.500 VHL 8.916 CLA 21.23 RAL 28.37 RAD 6569.6 VEL 14.172 PTH 2.58 VHP 15.936 DPA .22 RAP 3.68 ECC 2.3084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 8 3285.17 -24.81 116.65 283.14 75.89 4 50 53 2685.2 -26.51 108.39
 90.00 22 2 19 4466.97 8.55 186.99 270.70 62.90 23 16 45 3067.0 4.84 180.26
 100.00 5 31 55 2976.31 -26.94 94.51 283.72 76.52 6 21 32 2376.3 -28.52 86.07
 100.00 23 9 13 4251.04 10.49 170.09 269.67 61.85 24 20 4 3651.0 6.64 163.41
 110.00 7 10 36 2667.61 -32.27 72.45 285.11 78.05 7 55 3 2067.6 -33.57 63.46
 110.00 23 47 2 4132.53 15.24 158.34 266.91 59.03 24 55 54 3532.5 11.02 151.77

DIFFERENTIAL CORRECTIONS

TOE -.6212 TRA-1.5919 TC3 -.1362 BAU .1520
 RDE -.6690 RRA .2041 RC3 -.0437 FAU .01653
 FDE .4631 FRA .8288 FC3 -.1800 BSP 3566
 BOE .9130 BRA 1.6049 BC3 .1431 FSP -150

MID-COURSE EXECUTION ACCURACY

SGT 1192.8 SGR 459.0 SG3 62.2
 RRT .0659 RRF -.0682 RTF -.7779
 SGB 1278.1 R23 -.0081 R13 -.7781
 SG1 1193.2 SG2 457.9 THA 1.70

ORBIT DETERMINATION ACCURACY

ST 517.5 SR 432.0 SS 473.0
 CRT .7056 CRS .8131 CST .9852
 LSA 781.7 MSA 258.5 SSA 15.1
 EL1 624.6 EL2 253.6 ALF 37.79

LAUNCH DATE DEC 25 1968

FLIGHT TIME 88.00

ARRIVAL DATE MAR 23 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 23.534 GAL 10.42 AZL 86.55 MCA 78.46 SMA 106.15 ECC .42056 INC 3.4495 V1 30.281
 RP 107.65 LAP 3.38 LOP 171.71 VP 34.863 GAP -24.86 A7P 89.31 TAL 164.94 TAP 243.40 RCA 61.51 APO 150.80 V2 35.202
 RC 48.064 GL 9.43 GP 2.08 ZAL 59.32 ZAP 13.72 ETS 189.67 ZAE 157.17 ETE 202.78 ZAC 99.04 ETC 166.34 CLP 13.57

PLANETOCENTRIC CONIC

C3 72.263 VHL 8.501 CLA 21.85 RAL 28.75 RAD 6569.4 VEL 13.915 PTH 2.54 VHP 15.245 DPA 1.05 RAP 5.27 ECC 2.1893
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 49 56 3290.96 -24.71 117.05 282.01 75.72 4 44 47 2691.0 -26.44 108.80
 90.00 22 11 32 4416.88 6.98 184.14 269.96 62.49 23 25 9 3816.9 3.24 177.45
 100.00 5 26 39 2979.07 -26.89 94.70 282.61 76.43 6 16 18 2379.1 -28.49 86.27
 100.00 23 17 30 4204.01 8.96 167.43 268.89 61.36 24 27 34 3604.0 5.07 160.80
 110.00 7 6 59 2665.19 -32.30 72.27 284.01 78.15 7 51 24 2065.2 -33.59 63.27
 110.00 23 53 40 4090.65 13.76 156.00 266.06 58.40 25 1 50 3490.7 9.48 149.51

DIFFERENTIAL CORRECTIONS

TOE -.6239 TRA-1.5829 TC3 -.1336 BAU .1368
 RDE -.6378 RRA .1859 RC3 -.0468 FAU .01712
 FDE .4833 FRA .8559 FC3 -.2050 BSP 3764
 BOE .8922 BRA 1.5937 BC3 .1416 FSP -166

MID-COURSE EXECUTION ACCURACY

SGT 1244.8 SGR 457.5 SG3 67.7
 RRT .0767 RRF -.0791 RTF -.7917
 SGB 1326.2 R23 -.0090 R13 -.7918
 SG1 1245.4 SG2 456.0 THA 1.87

ORBIT DETERMINATION ACCURACY

ST 543.8 SR 431.8 SS 494.5
 CRT .7104 CRS .8170 CST .9853
 LSA 811.9 MSA 259.6 SSA 15.3
 EL1 645.5 EL2 256.0 ALF 35.93

LAUNCH DATE DEC 25 1968

FLIGHT TIME 90.00

ARRIVAL DATE MAR 25 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 23.878 GAL 9.91 AZL 86.61 MCA 81.69 SMA 107.56 ECC .40121 INC 3.3921 V1 30.281
 RP 107.68 LAP 3.36 LOP 174.95 VP 35.088 GAP -23.65 A7P 89.51 TAL 164.51 TAP 246.20 RCA 64.40 APO 150.71 V2 35.194
 RC 46.839 GL 9.89 GP 2.19 ZAL 58.89 ZAP 12.31 ETS 191.30 ZAE 159.22 ETE 205.14 ZAC 100.74 ETC 166.27 CLP 12.12

PLANETOCENTRIC CONIC

C3 65.721 VHL 8.107 CLA 22.44 RAL 29.06 RAD 6569.2 VEL 13.678 PTH 2.50 VHP 14.577 DPA 1.89 RAP 6.86 ECC 2.0816
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 18 3296.68 -24.62 117.44 280.76 75.54 4 38 15 2696.7 -26.36 109.21
 90.00 22 20 39 4366.14 5.38 181.27 269.17 62.16 23 33 25 3766.1 1.61 174.62
 100.00 5 21 3 2981.49 -26.85 94.87 281.38 76.35 6 10 45 2381.5 -28.47 86.44
 100.00 23 25 35 4156.56 7.40 164.77 268.06 60.96 24 34 52 3556.6 3.48 158.18
 110.00 7 3 7 2662.19 -32.34 72.04 282.80 78.27 7 47 29 2062.2 -33.62 63.04
 110.00 0 3 57 4048.63 12.25 153.68 265.16 57.83 1 11 25 3448.6 7.91 147.27

DIFFERENTIAL CORRECTIONS

TOE -.6269 TRA-1.5721 TC3 -.1287 BAU .1213
 RDE -.6073 RRA .1681 RC3 -.0500 FAU .01777
 FDE .5049 FRA .8840 FC3 -.2341 BSP 3971
 BOE .8728 BRA 1.5811 BC3 .1381 FSP -183

MID-COURSE EXECUTION ACCURACY

SGT 1298.1 SGR 455.3 SG3 73.7
 RRT .0888 RRF -.0914 RTF -.8047
 SGB 1375.7 R23 -.0100 R13 -.8049
 SG1 1298.8 SG2 453.2 THA 2.03

ORBIT DETERMINATION ACCURACY

ST 571.4 SR 430.9 SS 517.2
 CRT .7160 CRS .8212 CST .9854
 LSA 843.7 MSA 259.8 SSA 15.4
 EL1 667.7 EL2 257.4 ALF 34.12

LAUNCH DATE DEC 25 1968

FLIGHT TIME 92.00

ARRIVAL DATE MAR 27 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 24.199 GAL 9.41 AZL 86.66 MCA 84.93 SMA 108.92 ECC .38279 INC 3.3358 V1 30.281
 RP 107.71 LAP 3.32 LOP 178.19 VP 35.298 GAP -22.50 A7P 89.70 TAL 164.12 TAP 249.04 RCA 67.23 APO 150.61 V2 35.184
 RC 45.742 GL 10.35 GP 2.31 ZAL 58.53 ZAP 10.91 ETS 193.39 ZAE 161.39 ETE 208.07 ZAC 102.43 ETC 166.18 CLP 10.67

PLANETOCENTRIC CONIC

C3 59.807 VHL 7.733 CLA 23.02 RAL 29.30 RAD 6569.1 VEL 13.460 PTH 2.46 VHP 13.933 DPA 2.74 RAP 8.43 ECC 1.9843
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 16 3302.45 -24.52 117.83 279.41 75.37 4 31 18 2702.4 -26.29 109.61
 90.00 22 29 39 4314.81 3.74 178.39 268.33 61.91 23 41 34 3714.8 -.05 171.76
 100.00 5 15 8 2983.65 -26.82 95.02 280.06 76.28 6 4 51 2383.7 -28.44 86.60
 100.00 23 33 28 4108.83 5.82 162.11 267.18 60.63 24 41 57 3508.8 1.86 155.56
 110.00 6 59 1 2658.65 -32.39 71.78 281.50 78.42 7 43 19 2058.7 -33.65 62.77
 110.00 0 10 0 4006.60 10.71 151.39 264.21 57.34 1 16 47 3406.6 6.33 145.04

DIFFERENTIAL CORRECTIONS

TOE -.6306 TRA-1.5599 TC3 -.1215 BAU .1060
 RDE -.5777 RRA .1509 RC3 -.0529 FAU .01850
 FDE .5283 FRA .9132 FC3 -.2678 BSP 4177
 BOE .8552 BRA 1.5672 BC3 .1325 FSP -202

MID-COURSE EXECUTION ACCURACY

SGT 1353.0 SGR 452.4 SG3 80.4
 RRT .1026 RRF -.1053 RTF -.8170
 SGB 1426.6 R23 -.0111 R13 -.8173
 SG1 1353.8 SG2 449.7 THA 2.21

ORBIT DETERMINATION ACCURACY

ST 600.2 SR 429.5 SS 541.0
 CRT .7224 CRS .8259 CST .9857
 LSA 877.5 MSA 259.2 SSA 15.5
 EL1 691.6 EL2 257.8 ALF 32.37

LAUNCH DATE DEC 25 1968

FLIGHT TIME 94.00

ARRIVAL DATE MAR 29 1969

HELIOCENTRIC CONIC

DISTANCE 218.899

RL 147.13 LAL .00 LOL 93.27 VL 24.498 GAL 8.94 AZL 86.72 MCA 88.16 SMA 110.24 ECC .36529 INC 3.2800 V1 30.281
 RP 107.74 LAP 3.28 LOP 181.43 VP 35.493 GAP -21.39 AZP 89.89 TAL 163.77 TAP 251.93 RCA 69.97 APO 150.51 V2 35.174
 RC 44.782 GL 10.81 GP 2.45 ZAL 58.23 ZAP 9.53 ETS 196.13 ZAE 163.66 ETE 211.85 ZAC 104.11 ETC 166.06 CLP 9.21

PLANETOCENTRIC CONIC

C3 54.462 VHL 7.380 DLA 23.58 RAL 29.48 RAD 6569.0 VEL 13.260 PTH 2.42 VHP 13.310 DPA 3.60 RAP 10.00 ECC 1.8963
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 28 47 3308.36 -24.41 118.24 277.97 75.19 4 23 55 2708.4 -26.21 110.03
 90.00 22 38 33 4262.97 2.07 175.49 267.44 61.75 23 49 36 3663.0 -1.72 168.87
 100.00 5 8 53 2985.62 -26.79 95.16 278.64 76.21 5 58 39 2385.6 -28.42 86.74
 100.00 23 41 8 4060.94 4.21 159.46 266.26 60.38 24 48 49 3460.9 .24 152.93
 110.00 6 54 41 2654.63 -32.44 71.48 280.09 78.59 7 38 55 2054.6 -33.68 62.46
 110.00 0 15 46 3964.70 9.16 149.13 263.22 56.92 1 21 50 3364.7 4.75 142.83

DIFFERENTIAL CORRECTIONS

TDE -.6347 TRA-1.5461 TC3 -.1113 BAU .0906
 RDE -.5490 RRA .1343 RC3 -.0557 FAU .01931
 FDE .5536 FRA .9438 FC3 -.3069 BSP 4388
 BDE .8392 BRA 1.5519 BC3 .1245 FSP -224

MID-COURSE EXECUTION ACCURACY

SGT 1409.0 SGR 448.7 SG3 87.7
 RRT .1179 RRF -.1209 RTF -.8287
 SGB 1478.7 R23 -.0124 R13 -.8290
 S61 1410.1 S62 445.2 THA 2.39

ORBIT DETERMINATION ACCURACY

ST 630.3 SR 427.6 SS 566.3
 CRT .7296 CRS .8311 CST .9859
 LSA 913.3 MSA 257.8 SSA 15.7
 EL1 717.0 EL2 257.1 ALF 30.70

LAUNCH DATE DEC 25 1968

FLIGHT TIME 96.00

ARRIVAL DATE MAR 31 1969

HELIOCENTRIC CONIC

DISTANCE 225.591

RL 147.13 LAL .00 LOL 93.27 VL 24.776 GAL 8.48 AZL 86.78 MCA 91.39 SMA 111.51 ECC .34868 INC 3.2244 V1 30.281
 RP 107.77 LAP 3.22 LOP 184.67 VP 35.676 GAP -20.32 AZP 90.08 TAL 163.46 TAP 254.85 RCA 72.63 APO 150.39 V2 35.164
 RC 43.971 GL 11.28 GP 2.59 ZAL 58.01 ZAP 8.17 ETS 199.86 ZAE 165.97 ETE 216.92 ZAC 105.78 ETC 165.92 CLP 7.75

PLANETOCENTRIC CONIC

C3 49.633 VHL 7.045 DLA 24.12 RAL 29.59 RAD 6568.8 VEL 13.077 PTH 2.39 VHP 12.709 DPA 4.46 RAP 11.55 ECC 1.8168
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 20 53 3314.53 -24.31 118.65 276.43 75.01 4 16 7 2714.5 -26.13 110.46
 90.00 22 47 21 4210.71 .38 172.58 266.51 61.69 23 57 31 3610.7 -3.40 165.95
 100.00 5 2 20 2987.44 -26.76 95.29 277.13 76.15 5 52 7 2387.4 -28.40 86.87
 100.00 23 48 35 4013.03 2.60 156.82 265.28 60.21 24 55 28 3413.0 -1.39 150.30
 110.00 6 50 8 2650.14 -32.50 71.14 278.60 78.78 7 34 18 2050.1 -33.71 62.11
 110.00 0 21 11 3923.09 7.61 146.91 262.19 56.57 1 26 34 3323.1 3.16 140.65

DIFFERENTIAL CORRECTIONS

TDE -.6394 TRA-1.5305 TC3 -.0978 BAU .0755
 RDE -.5214 RRA .1181 RC3 -.0580 FAU .02021
 FDE .5810 FRA .9759 FC3 -.3524 BSP 4604
 BDE .8250 BRA 1.5351 BC3 .1137 FSP -247

MID-COURSE EXECUTION ACCURACY

SGT 1466.1 SGR 444.5 SG3 95.7
 RRT .1354 RRF -.1387 RTF -.8398
 SGB 1532.0 R23 -.0139 R13 -.8400
 S61 1467.4 S62 440.0 THA 2.58

ORBIT DETERMINATION ACCURACY

ST 661.7 SR 425.2 SS 592.9
 CRT .7378 CRS .8366 CST .9863
 LSA 951.1 MSA 255.6 SSA 15.8
 EL1 743.9 EL2 255.3 ALF 29.12

LAUNCH DATE DEC 25 1968

FLIGHT TIME 98.00

ARRIVAL DATE APR 2 1969

HELIOCENTRIC CONIC

DISTANCE 232.303

RL 147.13 LAL .00 LOL 93.27 VL 25.035 GAL 8.04 AZL 86.83 MCA 94.62 SMA 112.73 ECC .33297 INC 3.1687 V1 30.281
 RP 107.80 LAP 3.16 LOP 187.90 VP 35.845 GAP -19.29 AZP 90.26 TAL 163.20 TAP 257.82 RCA 75.19 APO 150.26 V2 35.153
 RC 43.319 GL 11.75 GP 2.76 ZAL 57.85 ZAP 6.85 ETS 205.18 ZAE 168.26 ETE 224.02 ZAC 107.42 ETC 165.74 CLP 6.28

PLANETOCENTRIC CONIC

C3 45.272 VHL 6.728 DLA 24.64 RAL 29.64 RAD 6568.7 VEL 12.909 PTH 2.35 VHP 12.129 DPA 5.34 RAP 13.08 ECC 1.7451
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 12 33 3321.03 -24.19 119.10 274.81 74.82 4 7 54 2721.0 -26.04 110.92
 90.00 22 56 2 4158.14 -1.31 169.65 265.54 61.71 24 5 20 3558.1 -5.08 163.00
 100.00 4 55 29 2989.11 -26.73 95.41 275.54 76.10 5 45 19 2389.1 -28.38 86.99
 100.00 23 55 46 3965.29 .98 154.20 264.27 60.12 25 1 51 3365.3 -3.00 147.68
 110.00 6 45 25 2645.21 -32.57 70.77 277.02 78.99 7 29 30 2045.2 -33.74 61.73
 110.00 0 26 16 3881.95 6.06 144.74 261.11 56.29 1 30 58 3282.0 1.59 138.50

DIFFERENTIAL CORRECTIONS

TDE -.6445 TRA-1.5138 TC3 -.0809 BAU .0609
 RDE -.4948 RRA .1024 RC3 -.0599 FAU .02121
 FDE .6109 FRA 1.0099 FC3 -.4055 BSP 4819
 BDE .8126 BRA 1.5172 BC3 .1006 FSP -273

MID-COURSE EXECUTION ACCURACY

SGT 1524.6 SGR 439.6 SG3 104.5
 RRT .1552 RRF -.1588 RTF -.8501
 SGB 1586.7 R23 -.0155 R13 -.8504
 S61 1526.2 S62 433.8 THA 2.79

ORBIT DETERMINATION ACCURACY

ST 694.5 SR 422.4 SS 621.2
 CRT .7468 CRS .8427 CST .9867
 LSA 991.3 MSA 252.5 SSA 15.9
 EL1 792.6 EL2 252.5 ALF 27.63

LAUNCH DATE DEC 25 1968

FLIGHT TIME 100.00

ARRIVAL DATE APR 4 1969

HELIOCENTRIC CONIC

DISTANCE 239.030

RL 147.13 LAL .00 LOL 93.27 VL 25.276 GAL 7.62 AZL 86.89 MCA 97.85 SMA 113.90 ECC .31811 INC 3.1126 V1 30.281
 RP 107.84 LAP 3.08 LOP 191.13 VP 36.002 GAP -18.30 AZP 90.43 TAL 162.99 TAP 260.83 RCA 77.67 APO 150.13 V2 35.141
 RC 42.834 GL 12.22 GP 2.94 ZAL 57.76 ZAP 5.62 ETS 213.10 ZAE 170.39 ETE 234.43 ZAC 109.04 ETC 165.53 CLP 4.79

PLANETOCENTRIC CONIC

C3 41.333 VHL 6.429 DLA 25.13 RAL 29.62 RAD 6568.6 VEL 12.755 PTH 2.32 VHP 11.569 DPA 6.22 RAP 14.60 ECC 1.6802
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 3 48 3327.92 -24.07 119.56 273.11 74.61 3 59 16 2727.9 -25.95 111.40
 90.00 23 4 37 4105.40 -3.01 166.70 264.53 61.83 24 13 2 3505.4 -6.76 160.02
 100.00 4 48 25 2990.63 -26.71 95.51 273.88 76.04 5 38 16 2390.6 -28.36 87.10
 100.00 0 6 37 3917.92 -.63 151.60 263.20 60.11 1 11 55 3317.9 -4.60 145.07
 110.00 6 40 33 2639.82 -32.64 70.36 275.37 79.23 7 24 32 2039.8 -33.78 61.31
 110.00 0 30 58 3841.50 4.53 142.61 259.99 56.08 1 35 0 3241.5 .05 136.39

DIFFERENTIAL CORRECTIONS

TDE -.6501 TRA-1.4952 TC3 -.0597 BAU .0472
 RDE -.4695 RRA .0872 RC3 -.0611 FAU .02231
 FDE .6435 FRA 1.0459 FC3 -.4673 BSP 5035
 BDE .8019 BRA 1.4978 BC3 .0854 FSP -302

MID-COURSE EXECUTION ACCURACY

SGT 1583.6 SGR 434.3 SG3 114.3
 RRT .1776 RRF -.1817 RTF -.8599
 SGB 1642.1 R23 -.0173 R13 -.8603
 S61 1585.6 S62 426.8 THA 3.01

ORBIT DETERMINATION ACCURACY

ST 728.4 SR 419.2 SS 651.3
 CRT .7566 CRS .8492 CST .9872
 LSA 1033.6 MSA 248.7 SSA 16.0
 EL1 802.8 EL2 248.7 ALF 26.24

LAUNCH DATE DEC 25 1968

FLIGHT TIME 102.00

ARRIVAL DATE APR 6 1969

DISTANCE 245.770

HELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 25.499 GAL 7.22 AZL 86.94 MCA 101.07 SMA 115.02 ECC .30410 INC 3.0556 V1 30.281
 RP 107.87 LAP 3.00 LOP 194.36 VP 36.148 GAP -17.35 AZP 90.59 TAL 162.82 TAP 263.89 RCA 80.04 APO 150.00 V2 35.129
 RC 42.524 GL 12.67 GP 3.14 ZAL 57.73 ZAP 4.54 ETS 225.41 ZAE 172.14 ETE 250.06 ZAC 110.63 ETC 165.28 CLP 3.29

PLANETOCENTRIC CONIC
 C3 37.778 VHL 6.146 DLA 25.59 RAL 29.53 RAD 6568.5 VEL 12.615 PTH 2.29 VHP 11.028 DPA 7.11 RAP 16.09 ECC 1.6217
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 54 40 3355.22 -23.94 120.06 271.35 74.40 3 50 15 2735.2 -25.85 111.91
 90.00 23 13 4 4052.67 -4.70 163.75 263.47 62.04 24 20 36 3452.7 -8.41 157.03
 100.00 4 41 9 2991.92 -26.68 95.60 272.15 76.00 5 31 1 2391.9 -28.35 87.19
 100.00 0 13 12 3871.20 -2.21 149.04 262.09 60.18 1 17 43 3271.2 -6.16 142.48
 110.00 6 35 35 2633.92 -32.71 69.92 273.66 79.48 7 19 29 2033.9 -33.82 60.86
 110.00 0 35 16 3801.96 3.02 140.54 258.83 55.93 1 38 38 3202.0 -1.47 134.33

MID-COURSE EXECUTION ACCURACY
 SGT 1643.8 SGR 428.5 SG3 125.1 ST 763.8 SR 415.8 SS 683.3
 RRT .2031 RRF -.2079 RTF -.8691 CRT .7672 CRS .8561 CST .9877
 SGB 1698.7 R23 -.0195 R13 -.8695 LSA 1078.6 MSA 244.2 SSA 16.0
 SG1 1646.2 SG2 419.0 THA 3.24 EL1 834.7 EL2 244.0 ALF 24.94

ORBIT DETERMINATION ACCURACY
 ST 763.8 SR 415.8 SS 683.3
 CRT .7672 CRS .8561 CST .9877
 LSA 1078.6 MSA 244.2 SSA 16.0
 EL1 834.7 EL2 244.0 ALF 24.94

DIFFERENTIAL CORRECTIONS
 TOE -.6561 TRA-1.4757 TC3 -.0340 BAU .0354
 RDE -.4454 RRA .0723 RC3 -.0614 FAU .02355
 FDE .6791 FRA 1.0843 FC3 -.5396 BSP 5247
 BOE .7930 BRA 1.4774 BC3 .0702 FSP -334

LAUNCH DATE DEC 25 1968

FLIGHT TIME 104.00

ARRIVAL DATE APR 8 1969

DISTANCE 252.518

HELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 25.707 GAL 6.83 AZL 87.00 MCA 104.29 SMA 116.09 ECC .29090 INC 2.9974 V1 30.281
 RP 107.91 LAP 2.90 LOP 197.59 VP 36.283 GAP -16.44 AZP 90.74 TAL 162.70 TAP 266.99 RCA 82.32 APO 149.86 V2 35.117
 RC 42.392 GL 13.12 GP 3.37 ZAL 57.77 ZAP 3.80 ETS 244.26 ZAE 173.10 ETE 271.97 ZAC 112.19 ETC 165.00 CLP 1.76

PLANETOCENTRIC CONIC
 C3 34.570 VHL 5.880 DLA 26.02 RAL 29.38 RAD 6568.4 VEL 12.488 PTH 2.26 VHP 10.507 DPA 8.01 RAP 17.56 ECC 1.5689
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 13 3342.86 -23.79 120.57 269.53 74.18 3 40 56 2742.9 -25.74 112.44
 90.00 23 21 21 4000.19 -6.37 160.79 262.37 62.35 24 28 1 3400.2 -10.02 154.02
 100.00 4 33 47 2992.84 -26.67 95.67 270.38 75.97 5 23 40 2392.8 -28.33 87.26
 100.00 0 19 23 3825.44 -3.76 146.52 260.94 60.32 1 23 9 3225.4 -7.68 139.93
 110.00 6 30 34 2627.45 -32.79 69.43 271.89 79.76 7 14 22 2027.4 -33.86 60.36
 110.00 0 39 6 3763.60 1.96 138.53 257.63 55.85 1 41 49 3163.6 -2.93 132.33

MID-COURSE EXECUTION ACCURACY
 SGT 1703.6 SGR 422.6 SG3 137.1 ST 800.1 SR 412.2 SS 717.2
 RRT .2321 RRF -.2376 RTF -.8777 CRT .7787 CRS .8635 CST .9883
 SGB 1755.3 R23 -.0219 R13 -.8781 LSA 1125.6 MSA 239.0 SSA 16.1
 SG1 1706.6 SG2 410.3 THA 3.50 EL1 867.9 EL2 238.4 ALF 23.76

ORBIT DETERMINATION ACCURACY
 ST 800.1 SR 412.2 SS 717.2
 CRT .7787 CRS .8635 CST .9883
 LSA 1125.6 MSA 239.0 SSA 16.1
 EL1 867.9 EL2 238.4 ALF 23.76

DIFFERENTIAL CORRECTIONS
 TOE -.6622 TRA-1.4540 TC3 -.0036 BAU .0280
 RDE -.4225 RRA .0579 RC3 -.0605 FAU .02493
 FDE .7180 FRA 1.1253 FC3 -.6242 BSP 5466
 BOE .7856 BRA 1.4552 BC3 .0606 FSP -369

LAUNCH DATE DEC 25 1968

FLIGHT TIME 106.00

ARRIVAL DATE APR 10 1969

DISTANCE 259.271

HELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 25.899 GAL 6.46 AZL 87.06 MCA 107.51 SMA 117.11 ECC .27850 INC 2.9375 V1 30.281
 RP 107.95 LAP 2.80 LOP 200.81 VP 36.408 GAP -15.55 AZP 90.88 TAL 162.63 TAP 270.14 RCA 84.49 APO 149.72 V2 35.105
 RC 42.442 GL 13.55 GP 3.62 ZAL 57.86 ZAP 3.63 ETS 268.74 ZAE 172.95 ETE 296.38 ZAC 113.70 ETC 164.67 CLP .20

PLANETOCENTRIC CONIC
 C3 31.677 VHL 5.628 DLA 26.41 RAL 29.18 RAD 6568.3 VEL 12.371 PTH 2.23 VHP 10.004 DPA 8.92 RAP 18.98 ECC 1.5213
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 35 32 3350.69 -23.65 121.10 267.66 73.95 3 31 23 2750.7 -25.62 112.99
 90.00 23 29 24 3948.30 -8.00 157.85 261.23 62.75 24 35 12 3348.3 -11.59 151.01
 100.00 4 26 26 2993.16 -26.66 95.69 268.55 75.96 5 16 19 2393.2 -28.33 87.28
 100.00 0 25 7 3781.05 -5.25 144.07 259.74 60.53 1 28 8 3181.1 -9.14 137.44
 110.00 6 25 37 2620.27 -32.88 68.89 270.07 80.07 7 9 17 2020.3 -33.90 59.80
 110.00 0 42 25 3726.71 .15 136.61 256.38 55.82 1 44 32 3126.7 -4.34 130.40

MID-COURSE EXECUTION ACCURACY
 SGT 1753.2 SGR 415.8 SG3 150.4 ST 803.4 SR 407.9 SS 753.2
 RRT .2416 RRF -.2715 RTF -.8834 CRT .7698 CRS .8713 CST .9835
 SGB 1801.9 R23 -.0475 R13 -.8841 LSA 1148.8 MSA 243.4 SSA 15.9
 SG1 1786.3 SG2 402.8 THA 3.46 EL1 868.2 EL2 240.9 ALF 23.24

ORBIT DETERMINATION ACCURACY
 ST 803.4 SR 407.9 SS 753.2
 CRT .7698 CRS .8713 CST .9835
 LSA 1148.8 MSA 243.4 SSA 15.9
 EL1 868.2 EL2 240.9 ALF 23.24

DIFFERENTIAL CORRECTIONS
 TOE -.6255 TRA-1.4368 TC3 .0347 BAU .0287
 RDE -.4004 RRA .0436 RC3 -.0582 FAU .02646
 FDE .7606 FRA 1.1696 FC3 -.7233 BSP 5776
 BOE .7427 BRA 1.4374 BC3 .0677 FSP -409

LAUNCH DATE DEC 25 1968

FLIGHT TIME 108.00

ARRIVAL DATE APR 12 1969

DISTANCE 266.026

HELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 26.077 GAL 6.11 AZL 87.12 MCA 110.73 SMA 118.07 ECC .26687 INC 2.8756 V1 30.281
 RP 107.99 LAP 2.69 LOP 204.03 VP 36.523 GAP -14.70 AZP 91.02 TAL 162.60 TAP 273.33 RCA 86.56 APO 149.58 V2 35.092
 RC 42.671 GL 13.96 GP 3.91 ZAL 58.02 ZAP 4.15 ETS 291.54 ZAE 171.77 ETE 316.50 ZAC 115.17 ETC 164.29 CLP -1.39

PLANETOCENTRIC CONIC
 C3 29.067 VHL 5.391 DLA 26.76 RAL 28.92 RAD 6568.2 VEL 12.265 PTH 2.21 VHP 9.520 DPA 9.84 RAP 20.37 ECC 1.4784
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 25 45 3358.34 -23.50 121.61 265.75 73.74 3 21 44 2758.3 -25.51 113.52
 90.00 23 37 6 3897.49 -9.57 154.94 260.04 63.22 24 42 3 3297.5 -13.09 148.03
 100.00 4 19 14 2992.53 -26.67 95.64 266.70 75.98 5 9 6 2392.5 -28.34 87.24
 100.00 0 30 14 3738.54 -6.67 141.71 258.48 60.79 1 32 33 3138.5 -10.51 135.03
 110.00 6 20 46 2612.22 -32.97 68.28 268.22 80.42 7 4 19 2012.2 -33.94 59.18
 110.00 0 45 11 3691.62 -1.19 134.78 255.10 55.84 1 46 43 3091.6 -5.67 128.55

MID-COURSE EXECUTION ACCURACY
 SGT 1823.3 SGR 410.7 SG3 165.2 ST 875.0 SR 405.1 SS 791.4
 RRT .3024 RRF -.3102 RTF -.8934 CRT .8034 CRS .8794 CST .9895
 SGB 1869.0 R23 -.0284 R13 -.8940 LSA 1226.5 MSA 226.9 SSA 16.2
 SG1 1827.7 SG2 390.5 THA 4.08 EL1 937.6 EL2 225.1 ALF 21.72

ORBIT DETERMINATION ACCURACY
 ST 875.0 SR 405.1 SS 791.4
 CRT .8034 CRS .8794 CST .9895
 LSA 1226.5 MSA 226.9 SSA 16.2
 EL1 937.6 EL2 225.1 ALF 21.72

DIFFERENTIAL CORRECTIONS
 TOE -.6741 TRA-1.4071 TC3 .0747 BAU .0358
 RDE -.3811 RRA .0296 RC3 -.0541 FAU .02818
 FDE .8072 FRA 1.2175 FC3 -.8393 BSP 5902
 BOE .7743 BRA 1.4074 BC3 .0923 FSP -453

LAUNCH DATE DEC 25 1968

FLIGHT TIME 110.00

ARRIVAL DATE APR 14 1969

HELIOCENTRIC CONIC

DISTANCE 272.779

RL 147.13 LAL .00 LOL 93.27 VL 26.242 GAL 5.78 AZL 87.19 MCA 113.95 SMA 118.98 ECC .25598 INC 2.8109 V1 30.281
 RP 108.03 LAP 2.57 LOP 207.25 VP 36.628 GAP -13.88 AZP 91.14 TAL 162.61 TAP 276.56 RCA 88.53 APO 149.44 V2 35.080
 RC 43.078 GL 14.34 GP 4.23 ZAL 58.22 ZAP 5.19 ETS 307.53 ZAE 169.99 ETE 330.44 ZAC 116.58 ETC 163.87 CLP -3.01

PLANETOCENTRIC CONIC

C3 26.713 VHL 5.168 DLA 27.06 RAL 28.61 RAD 6568.1 VEL 12.169 PTH 2.18 VHP 9.054 DPA 10.78 RAP 21.72 ECC 1.4396
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 16 8 3365.22 -23.37 122.08 263.83 73.54 3 12 13 2765.2 -25.41 114.00
 90.00 23 44 15 3848.54 -11.06 152.12 258.80 63.76 24 48 24 3248.5 -14.49 145.13
 100.00 4 12 22 2990.48 -26.71 95.50 264.83 76.05 5 2 13 2390.5 -28.36 87.09
 100.00 0 34 37 3698.52 -7.99 139.48 257.18 61.10 1 36 16 3098.5 -11.79 132.75
 110.00 6 16 11 2603.07 -33.07 67.58 266.33 80.82 6 59 34 2003.1 -33.99 58.46
 110.00 0 47 19 3658.69 -2.45 133.06 253.78 55.89 1 48 17 3058.7 -6.91 126.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6796 TRA-1.3821 TC3 .1228 BAU .0471 SGT 1882.5 SGR 405.4 SG3 181.6 ST 913.2 SR 402.0 SS 831.6
 RDE -.3626 RRA .0156 RC3 -.0477 FAU .03010 RRT .3447 RRF -.3541 RTF -.9005 CRT .8167 CRS .8879 CST .9902
 FDE .8580 FRA 1.2696 FC3 -.9755 BSP 6109 SGB 1925.7 R23 -.0325 R13 -.9011 LSA 1280.1 MSA 220.1 SSA 16.3
 BDE .7703 BRA 1.3822 BC3 .1318 FSP -503 SG1 1887.9 SG2 379.5 THA 4.43 EL1 973.8 EL2 217.6 ALF 20.86

LAUNCH DATE DEC 25 1968

FLIGHT TIME 112.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC

DISTANCE 279.528

RL 147.13 LAL .00 LOL 93.27 VL 26.395 GAL 5.46 AZL 87.26 MCA 117.16 SMA 119.85 ECC .24581 INC 2.7430 V1 30.281
 RP 108.07 LAP 2.44 LOP 210.46 VP 36.725 GAP -13.09 AZP 91.25 TAL 162.67 TAP 279.83 RCA 90.39 APO 149.31 V2 35.067
 RC 43.658 GL 14.69 GP 4.61 ZAL 58.48 ZAP 6.56 ETS 317.69 ZAE 167.95 ETE 339.92 ZAC 117.92 ETC 163.39 CLP -4.68

PLANETOCENTRIC CONIC

C3 24.591 VHL 4.959 DLA 27.31 RAL 28.26 RAD 6568.0 VEL 12.082 PTH 2.16 VHP 8.605 DPA 11.74 RAP 23.00 ECC 1.4047
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 7 1 3370.26 -23.27 122.41 261.90 73.40 3 3 11 2770.3 -25.33 114.34
 90.00 23 50 33 3802.61 -12.42 149.44 257.51 64.35 24 53 55 3202.6 -15.78 142.36
 100.00 4 6 6 2986.35 -26.78 95.21 262.96 76.19 4 55 53 2386.3 -28.41 86.79
 100.00 0 38 4 3661.76 -9.19 137.41 255.83 61.43 1 39 6 3061.8 -12.94 130.63
 110.00 6 11 57 2592.56 -33.18 66.78 264.43 81.28 6 55 9 1992.6 -34.03 57.65
 110.00 0 48 43 3628.31 -3.61 131.47 252.41 55.98 1 49 11 3028.3 -8.05 125.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6843 TRA-1.3555 TC3 .1773 BAU .0597 SGT 1939.9 SGR 401.2 SG3 200.0 ST 951.2 SR 399.4 SS 874.2
 RDE -.3457 RRA .0016 RC3 -.0386 FAU .03225 RRT .3925 RRF -.4038 RTF -.9072 CRT .8304 CRS .8968 CST .9908
 FDE .9135 FRA 1.3265 FC3-1.1352 BSP 6319 SGB 1980.9 R23 -.0375 R13 -.9079 LSA 1335.3 MSA 212.9 SSA 16.3
 BDE .7667 BRA 1.3555 BC3 .1815 FSP -559 SG1 1946.5 SG2 367.8 THA 4.81 EL1 1010.2 EL2 209.6 ALF 20.12

LAUNCH DATE DEC 25 1968

FLIGHT TIME 114.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC

DISTANCE 286.271

RL 147.13 LAL .00 LOL 93.27 VL 26.535 GAL 5.17 AZL 87.33 MCA 120.37 SMA 120.66 ECC .23633 INC 2.6712 V1 30.281
 RP 108.11 LAP 2.30 LOP 213.67 VP 36.814 GAP -12.32 AZP 91.35 TAL 162.77 TAP 283.14 RCA 92.14 APO 149.17 V2 35.053
 RC 44.405 GL 14.99 GP 5.03 ZAL 58.78 ZAP 8.13 ETS 324.18 ZAE 165.85 ETE 346.66 ZAC 119.20 ETC 162.85 CLP -6.39

PLANETOCENTRIC CONIC

C3 22.678 VHL 4.762 DLA 27.50 RAL 27.87 RAD 6567.9 VEL 12.002 PTH 2.14 VHP 8.173 DPA 12.73 RAP 24.23 ECC 1.3732
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 59 0 3371.75 -23.24 122.51 260.00 73.36 2 55 12 2771.7 -25.31 114.45
 90.00 23 55 27 3761.52 -13.62 147.01 256.14 64.93 24 58 8 3161.5 -16.89 139.86
 100.00 4 0 44 2979.32 -26.89 94.72 261.09 76.42 4 50 24 2379.3 -28.49 86.28
 100.00 0 40 20 3629.19 -10.25 135.57 254.41 61.77 1 40 49 3029.2 -13.94 128.73
 110.00 6 8 14 2580.33 -33.31 65.85 262.51 81.82 6 51 14 1980.3 -34.08 56.70
 110.00 0 49 19 3600.93 -4.65 130.03 251.01 56.10 1 49 20 3000.9 -9.07 123.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6885 TRA-1.3287 TC3 .2375 BAU .0724 SGT 1996.3 SGR 398.7 SG3 220.5 ST 989.2 SR 397.6 SS 919.3
 RDE -.3305 RRA -.0128 RC3 -.0260 FAU .03464 RRT .4460 RRF -.4594 RTF -.9133 CRT .8445 CRS .9058 CST .9915
 FDE .9741 FRA 1.3896 FC3-1.3224 BSP 6512 SGB 2035.7 R23 -.0433 R13 -.9141 LSA 1392.6 MSA 205.5 SSA 16.3
 BDE .7637 BRA 1.3287 BC3 .2389 FSP -620 SG1 2004.4 SG2 355.4 THA 5.26 EL1 1047.0 EL2 201.2 ALF 19.50

LAUNCH DATE DEC 25 1968

FLIGHT TIME 116.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC

DISTANCE 293.004

RL 147.13 LAL .00 LOL 93.27 VL 26.665 GAL 4.88 AZL 87.41 MCA 123.58 SMA 121.42 ECC .22752 INC 2.5945 V1 30.281
 RP 108.15 LAP 2.16 LOP 216.88 VP 36.895 GAP -11.58 AZP 91.44 TAL 162.91 TAP 286.49 RCA 93.79 APO 149.04 V2 35.040
 RC 45.309 GL 15.23 GP 5.51 ZAL 59.12 ZAP 9.84 ETS 328.47 ZAE 163.81 ETE 351.78 ZAC 120.38 ETC 162.24 CLP -8.16

PLANETOCENTRIC CONIC

C3 20.952 VHL 4.577 DLA 27.61 RAL 27.45 RAD 6567.9 VEL 11.930 PTH 2.12 VHP 7.758 DPA 13.74 RAP 25.38 ECC 1.3448
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 52 55 3367.16 -23.33 122.20 258.15 73.49 2 49 2 2767.2 -25.38 114.13
 90.00 0 2 8 3727.87 -14.58 145.01 254.69 65.46 1 4 16 3127.9 -17.78 137.79
 100.00 3 56 37 2968.42 -27.06 93.96 259.24 76.79 4 46 5 2368.4 -28.61 85.50
 100.00 0 41 7 3601.85 -11.12 134.01 252.94 62.08 1 41 9 3001.9 -14.77 127.13
 110.00 6 5 12 2566.00 -33.44 64.75 260.60 82.45 6 47 58 1966.0 -34.12 55.58
 110.00 0 49 1 3577.04 -5.56 128.78 249.58 56.22 1 48 38 2977.0 -9.96 122.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6906 TRA-1.3004 TC3 .3052 BAU .0855 SGT 2049.3 SGR 398.8 SG3 243.4 ST 1025.2 SR 397.0 SS 966.1
 RDE -.3170 RRA -.0276 RC3 -.0091 FAU .03733 RRT .5045 RRF -.5206 RTF -.9190 CRT .8587 CRS .9151 CST .9921
 FDE 1.0395 FRA 1.4590 FC3-1.5426 BSP 6709 SGB 2087.7 R23 -.0506 R13 -.9200 LSA 1450.0 MSA 197.8 SSA 16.2
 BDE .7599 BRA 1.3007 BC3 .3054 FSP -690 SG1 2059.4 SG2 342.6 THA 5.77 EL1 1082.3 EL2 192.7 ALF 19.02

LAUNCH DATE DEC 25 1968

FLIGHT TIME 118.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 26.784 GAL 4.62 AZL 87.49 MCA 126.78 SMA 122.13 ECC .21935 INC 2.5119 V1 30.281
 RP 108.19 LAP 2.01 LOP 220.09 VP 36.969 GAP -10.87 A7P 91.50 TAL 163.08 TAP 289.86 RCA 95.34 APO 148.92 V2 35.027
 RC 46.364 GL 15.41 GP 6.08 ZAL 59.48 ZAP 11.69 ETS 331.38 ZAE 161.89 ETE 355.93 ZAC 121.46 ETC 161.56 CLP -10.00

PLANETOCENTRIC CONIC

C3 19.395 VML 4.404 DLA 27.65 RAL 27.01 RAD 6567.8 VEL 11.865 PTH 2.10 VHP 7.360 DPA 14.80 RAP 26.44 ECC 1.3192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 49 44 3353.52 -23.59 121.29 256.38 73.87 2 45 38 2753.5 -25.58 113.18
 90.00 0 1 51 3704.70 -15.23 143.62 253.13 65.84 1 3 36 3104.7 -18.37 136.35
 100.00 3 54 6 2952.61 -27.30 92.84 257.43 77.33 4 43 19 2352.6 -28.77 84.35
 100.00 0 40 10 3580.84 -11.79 132.81 251.41 62.33 1 39 51 2980.8 -15.40 125.88
 110.00 6 3 2 2549.08 -33.58 63.45 258.68 83.21 6 45 32 1949.1 -34.16 54.26
 110.00 0 47 43 3557.13 -6.31 127.73 248.12 56.33 1 47 0 2957.1 -10.69 121.38

DIFFERENTIAL CORRECTIONS

TOE -.6889 TRA-1.2690 TC3 .3830 BAU .0994
 RDE -.3053 RRA -.0430 RC3 .0132 FAU .04040
 FDE 1.1088 FRA 1.5347 FC3-1.8035 BSP 6945
 BOE .7535 BRA 1.2697 BC3 .3832 FSP -771

MID-COURSE EXECUTION ACCURACY

SGT 2095.4 SGR 402.4 SG3 268.9
 RRT .5666 RRF -.5861 RTF -.9247
 SGB 2133.7 R23 -.0594 R13 -.9258
 SG1 2108.1 SG2 329.5 THA 6.37

ORBIT DETERMINATION ACCURACY

ST 1056.4 SR 397.6 SS 1013.6
 CRT .8727 CRS .9243 CST .9927
 LSA 1505.0 MSA 190.1 SSA 16.1
 EL1 1113.6 EL2 184.2 ALF 18.72

LAUNCH DATE DEC 25 1968

FLIGHT TIME 120.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 26.894 GAL 4.37 AZL 87.58 MCA 129.99 SMA 122.80 ECC .21178 INC 2.4222 V1 30.281
 RP 108.23 LAP 1.86 LOP 223.29 VP 37.035 GAP -10.18 A7P 91.56 TAL 163.28 TAP 293.27 RCA 96.79 APO 148.80 V2 35.013
 RC 47.558 GL 15.50 GP 6.73 ZAL 59.88 ZAP 13.66 ETS 333.36 ZAE 160.12 ETE 359.52 ZAC 122.42 ETC 160.81 CLP -11.91

PLANETOCENTRIC CONIC

C3 17.989 VML 4.241 DLA 27.59 RAL 26.58 RAD 6567.7 VEL 11.806 PTH 2.09 VHP 6.979 DPA 15.90 RAP 27.40 ECC 1.2960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 13 3328.51 -24.06 119.60 254.71 74.60 2 45 42 2728.5 -25.94 111.44
 90.00 23 53 57 3694.34 -15.52 142.99 251.47 66.02 24 55 31 3094.3 -18.63 135.70
 100.00 3 53 33 2930.91 -27.62 91.31 255.67 78.08 4 42 24 2330.9 -28.98 82.77
 100.00 0 37 13 3567.17 -12.22 132.02 249.83 62.51 1 36 40 2967.2 -15.81 125.07
 110.00 6 1 57 2529.08 -33.73 61.91 256.79 84.11 6 44 6 1929.1 -34.18 52.70
 110.00 0 45 19 3541.76 -6.89 126.91 246.64 56.44 1 44 20 2941.8 -11.25 120.54

DIFFERENTIAL CORRECTIONS

TOE -.6872 TRA-1.2396 TC3 .4613 BAU .1114
 RDE -.2958 RRA -.0598 RC3 .0418 FAU .04377
 FDE 1.1843 FRA 1.6210 FC3-2.1063 BSP 7109
 BOE .7481 BRA 1.2411 BC3 .4632 FSP -859

MID-COURSE EXECUTION ACCURACY

SGT 2141.3 SGR 411.3 SG3 297.5
 RRT .6323 RRF -.6550 RTF -.9294
 SGB 2180.5 R23 -.0699 R13 -.9309
 SG1 2157.4 SG2 316.3 THA 7.08

ORBIT DETERMINATION ACCURACY

ST 1087.8 SR 400.5 SS 1063.7
 CRT .8870 CRS .9336 CST .9933
 LSA 1562.6 MSA 182.2 SSA 16.1
 EL1 1145.8 EL2 175.6 ALF 18.54

LAUNCH DATE DEC 25 1968

FLIGHT TIME 122.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 26.994 GAL 4.14 AZL 87.68 MCA 133.19 SMA 123.41 ECC .20480 INC 2.3237 V1 30.281
 RP 108.27 LAP 1.69 LOP 226.49 VP 37.096 GAP -9.51 A7P 91.59 TAL 163.51 TAP 296.70 RCA 98.14 APO 148.69 V2 35.000
 RC 48.883 GL 15.49 GP 7.49 ZAL 60.28 ZAP 15.76 ETS 334.69 ZAE 158.53 ETE 2.79 ZAC 123.25 ETC 159.97 CLP -13.91

PLANETOCENTRIC CONIC

C3 16.717 VML 4.089 DLA 27.43 RAL 26.15 RAD 6567.7 VEL 11.752 PTH 2.07 VHP 6.615 DPA 17.07 RAP 28.24 ECC 1.2751
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 54 34 3291.64 -24.70 117.09 253.14 75.70 2 49 25 2691.6 -26.43 108.85
 90.00 23 46 11 3697.29 -15.44 143.17 249.71 65.97 24 47 48 3097.3 -18.56 135.89
 100.00 3 55 17 2902.48 -28.00 89.28 253.96 79.08 4 43 39 2302.5 -29.22 80.69
 100.00 0 32 5 3561.68 -12.39 131.71 248.20 62.58 1 31 27 2961.7 -15.97 124.74
 110.00 6 2 10 2505.42 -33.88 60.08 254.91 85.19 6 43 55 1905.4 -34.18 50.85
 110.00 0 41 41 3531.51 -7.27 126.37 245.15 56.51 1 40 33 2931.5 -11.63 119.98

DIFFERENTIAL CORRECTIONS

TOE -.6825 TRA-1.2095 TC3 .5455 BAU .1232
 RDE -.2884 RRA -.0782 RC3 .0785 FAU .04754
 FDE 1.2643 FRA 1.7179 FC3-2.4619 BSP 7259
 BOE .7410 BRA 1.2120 BC3 .5511 FSP -957

MID-COURSE EXECUTION ACCURACY

SGT 2181.8 SGR 427.5 SG3 329.5
 RRT .6979 RRF -.7238 RTF -.9339
 SGB 2223.3 R23 -.0826 R13 -.9357
 SG1 2202.5 SG2 303.3 THA 7.94

ORBIT DETERMINATION ACCURACY

ST 1115.0 SR 405.9 SS 1114.8
 CRT .9012 CRS .9427 CST .9939
 LSA 1618.7 MSA 174.2 SSA 16.0
 EL1 1174.7 EL2 167.0 ALF 18.55

LAUNCH DATE DEC 25 1968

FLIGHT TIME 124.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 27.086 GAL 3.92 AZL 87.79 MCA 136.39 SMA 123.99 ECC .19839 INC 2.2145 V1 30.281
 RP 108.31 LAP 1.53 LOP 229.68 VP 37.150 GAP -8.87 A7P 91.60 TAL 163.76 TAP 300.15 RCA 99.39 APO 148.58 V2 34.987
 RC 50.327 GL 15.35 GP 8.39 ZAL 60.69 ZAP 18.01 ETS 335.53 ZAE 157.13 ETE 5.97 ZAC 123.91 ETC 159.03 CLP -15.99

PLANETOCENTRIC CONIC

C3 15.566 VML 3.945 DLA 27.14 RAL 25.75 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 6.269 DPA 18.33 RAP 28.93 ECC 1.2562
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 2 27 3244.08 -25.46 113.82 251.64 77.17 2 56 31 2644.1 -26.98 105.48
 90.00 23 35 7 3712.36 -15.02 144.08 247.91 65.71 24 36 59 3112.4 -18.18 136.83
 100.00 3 59 30 2866.74 -28.43 86.71 252.30 80.36 4 47 17 2266.7 -29.47 78.06
 100.00 0 24 40 3564.94 -12.29 131.90 246.55 62.54 1 24 5 2964.9 -15.88 124.94
 110.00 6 3 54 2477.44 -34.02 57.91 253.05 86.47 6 45 12 1877.4 -34.14 48.66
 110.00 0 36 45 3527.00 -7.44 126.13 243.65 56.54 1 35 32 2927.0 -11.79 119.74

DIFFERENTIAL CORRECTIONS

TOE -.6742 TRA-1.1787 TC3 .6328 BAU .1343
 RDE -.2835 RRA -.0988 RC3 .1256 FAU .05175
 FDE 1.3471 FRA 1.8266 FC3-2.8780 BSP 7401
 BOE .7313 BRA 1.1829 BC3 .6451 FSP -1068

MID-COURSE EXECUTION ACCURACY

SGT 2215.3 SGR 453.1 SG3 365.2
 RRT .7597 RRF -.7888 RTF -.9379
 SGB 2261.2 R23 -.0981 R13 -.9401
 SG1 2242.4 SG2 291.1 THA 8.98

ORBIT DETERMINATION ACCURACY

ST 1136.5 SR 414.5 SS 1165.6
 CRT .9148 CRS .9515 CST .9944
 LSA 1671.6 MSA 166.0 SSA 15.8
 EL1 1199.3 EL2 158.6 ALF 18.79

LAUNCH DATE DEC 25 1968

FLIGHT TIME 126.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 326.475

RL 147.13 LAL .00 LOL 93.27 VL 27.170 GAL 3.72 AZL 87.91 MCA 139.58 SMA 124.51 ECC .19250 INC 2.0917 V1 30.281
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.199 GAP -8.24 AZP 91.59 TAL 164.03 TAP 303.61 RCA 100.55 APO 148.48 V2 34.974
 RC 51.881 GL 15.05 GP 9.46 ZAL 61.10 ZAP 20.42 ETS 335.98 ZAE 155.91 ETE 9.21 ZAC 124.38 ETC 157.98 CLP -18.19

PLANETOCENTRIC CONIC

C3 14.521 VHL 3.811 DLA 26.60 RAL 25.39 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 5.940 DPA 19.70 RAP 29.46 ECC 1.2390
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 13 25 3187.37 -26.26 109.86 250.19 79.00 3 6 32 2587.4 -27.51 101.41
 90.00 23 21 19 3737.97 -14.30 145.61 246.09 65.30 24 23 37 3138.0 -17.51 138.41
 100.00 4 6 21 2823.26 -28.89 83.56 250.69 81.96 4 53 25 2223.3 -29.70 74.85
 100.00 0 15 0 3577.31 -11.90 132.61 244.88 62.38 1 14 37 2977.3 -15.51 125.67
 110.00 6 7 26 2444.40 -34.13 55.33 251.23 87.99 6 48 11 1844.4 -34.03 46.09
 110.00 0 30 24 3528.94 -7.37 126.23 242.17 56.53 1 29 13 2928.9 -11.72 119.84

DIFFERENTIAL CORRECTIONS

TDE -.6591 TRA-1.1450 TC3 .7282 BAU .1459
 RDE -.2809 RRA -.1222 RC3 .1864 FAU .05651
 FDE 1.4285 FRA 1.9470 FC3-3.3693 BSP 7576
 BOE .7165 BRA 1.1515 BC3 .7517 FSP -1196

MID-COURSE EXECUTION ACCURACY

SGT 2236.9 SGR 490.7 SG3 404.7
 RRT .8141 RRF -.8464 RTF -.9417
 SGB 2290.1 R23 -.1162 R13 -.9446
 SG1 2272.8 SG2 280.5 TMA 10.29

ORBIT DETERMINATION ACCURACY

ST 1147.5 SR 426.8 SS 1212.8
 CRT .9276 CRS .9597 CST .9950
 LSA 1716.0 MSA 157.9 SSA 15.6
 EL1 1215.0 EL2 150.6 ALF 19.34

LAUNCH DATE DEC 25 1968

FLIGHT TIME 128.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 333.119

RL 147.13 LAL .00 LOL 93.27 VL 27.246 GAL 3.53 AZL 88.05 MCA 142.78 SMA 125.00 ECC .18712 INC 1.9518 V1 30.281
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.243 GAP -7.64 AZP 91.55 TAL 164.30 TAP 307.08 RCA 101.61 APO 148.39 V2 34.961
 RC 53.536 GL 14.56 GP 10.74 ZAL 61.49 ZAP 23.03 ETS 336.11 ZAE 154.85 ETE 12.67 ZAC 124.62 ETC 156.82 CLP -20.50

PLANETOCENTRIC CONIC

C3 13.571 VHL 3.684 DLA 26.06 RAL 25.11 RAD 6567.5 VEL 11.617 PTH 2.04 VHP 5.630 DPA 21.22 RAP 29.78 ECC 1.2233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 27 11 3122.49 -27.02 105.26 248.77 81.19 3 19 13 2522.5 -27.96 96.72
 90.00 23 5 18 3773.08 -13.29 147.70 244.31 64.76 24 8 11 3173.1 -16.58 140.57
 100.00 4 16 0 2771.66 -29.32 79.79 249.11 83.90 5 2 12 2171.7 -29.86 71.02
 100.00 0 3 6 3599.13 -11.21 133.86 243.24 62.11 1 3 5 2999.1 -14.86 126.97
 110.00 6 13 3 2405.43 -34.18 52.29 249.43 89.79 6 53 9 1805.4 -33.83 43.06
 110.00 0 22 32 3538.13 -7.02 126.72 240.72 56.46 1 21 30 2938.1 -11.39 120.34

DIFFERENTIAL CORRECTIONS

TDE -.6410 TRA-1.1133 TC3 .8180 BAU .1559
 RDE -.2812 RRA -.1502 RC3 .2638 FAU .06166
 FDE 1.5091 FRA 2.0856 FC3-3.9334 BSP 7677
 BOE .7000 BRA 1.1234 BC3 .8595 FSP -1333

MID-COURSE EXECUTION ACCURACY

SGT 2252.2 SGR 544.7 SG3 448.5
 RRT .8595 RRF -.8943 RTF -.9449
 SGB 2317.1 R23 -.1373 R13 -.9486
 SG1 2301.0 SG2 272.5 TMA 11.91

ORBIT DETERMINATION ACCURACY

ST 1152.6 SR 444.3 SS 1258.2
 CRT .9397 CRS .9672 CST .9955
 LSA 1756.8 MSA 149.5 SSA 15.5
 EL1 1227.0 EL2 142.8 ALF 20.20

LAUNCH DATE DEC 25 1968

FLIGHT TIME 130.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 339.745

RL 147.13 LAL .00 LOL 93.27 VL 27.315 GAL 3.36 AZL 88.21 MCA 145.97 SMA 125.45 ECC .18223 INC 1.7898 V1 30.281
 RP 108.43 LAP 1.00 LOP 239.25 VP 37.281 GAP -7.06 AZP 91.48 TAL 164.59 TAP 310.56 RCA 102.59 APO 148.31 V2 34.948
 RC 55.282 GL 13.82 GP 12.28 ZAL 61.86 ZAP 25.87 ETS 335.95 ZAE 153.92 ETE 16.51 ZAC 124.59 ETC 155.53 CLP -22.94

PLANETOCENTRIC CONIC

C3 12.704 VHL 3.564 DLA 25.20 RAL 24.93 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 5.341 DPA 22.93 RAP 29.85 ECC 1.2091
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 43 43 3049.51 -27.67 100.02 247.37 83.73 3 34 33 2449.5 -28.25 91.40
 90.00 22 47 18 3817.53 -11.98 150.31 242.59 64.15 23 50 55 3217.5 -15.36 143.26
 100.00 4 28 37 2711.31 -29.67 75.34 247.57 86.22 5 13 49 2111.3 -29.88 66.54
 100.00 23 45 5 3630.96 -10.19 135.67 241.66 61.75 24 45 36 3031.0 -13.89 128.83
 110.00 6 21 6 2359.38 -34.14 48.69 247.66 91.91 7 0 26 1759.4 -33.49 39.51
 110.00 0 13 1 3555.65 -6.36 127.65 239.34 56.34 1 12 17 2955.7 -10.74 121.30

DIFFERENTIAL CORRECTIONS

TDE -.6177 TRA-1.0819 TC3 .9030 BAU .1653
 RDE -.2846 RRA -.1841 RC3 .3635 FAU .06723
 FDE 1.5824 FRA 2.2430 FC3-4.5815 BSP 7737
 BOE .6801 BRA 1.0975 BC3 .9734 FSP -1481

MID-COURSE EXECUTION ACCURACY

SGT 2257.2 SGR 619.2 SG3 496.5
 RRT .8942 RRF -.9313 RTF -.9474
 SGB 2340.6 R23 -.1605 R13 -.9524
 SG1 2325.0 SG2 269.1 TMA 13.97

ORBIT DETERMINATION ACCURACY

ST 1148.4 SR 467.9 SS 1297.7
 CRT .9509 CRS .9740 CST .9961
 LSA 1789.4 MSA 140.5 SSA 15.4
 EL1 1232.7 EL2 135.0 ALF 21.45

LAUNCH DATE DEC 25 1968

FLIGHT TIME 132.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 346.350

RL 147.13 LAL .00 LOL 93.27 VL 27.378 GAL 3.21 AZL 88.40 MCA 149.15 SMA 125.86 ECC .17779 INC 1.5988 V1 30.281
 RP 108.47 LAP .82 LOP 242.44 VP 37.316 GAP -6.49 AZP 91.37 TAL 164.87 TAP 314.03 RCA 103.48 APO 148.23 V2 34.936
 RC 57.109 GL 12.77 GP 14.18 ZAL 62.20 ZAP 28.97 ETS 335.53 ZAE 153.05 ETE 20.91 ZAC 124.22 ETC 154.10 CLP -25.53

PLANETOCENTRIC CONIC

C3 11.912 VHL 3.451 DLA 24.05 RAL 24.88 RAD 6567.5 VEL 11.546 PTH 2.02 VHP 5.075 DPA 24.90 RAP 29.61 ECC 1.1960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 3 18 2967.56 -28.14 94.07 245.99 86.68 3 52 45 2367.6 -28.30 85.41
 90.00 22 27 21 3872.13 -10.34 153.48 240.99 63.49 23 31 53 3272.1 -13.82 146.53
 100.00 4 44 32 2641.12 -29.88 70.13 246.06 88.96 5 28 33 2041.1 -29.70 61.33
 100.00 23 28 47 3673.80 -8.80 138.09 240.17 61.32 24 30 1 3073.8 -12.56 131.32
 110.00 6 32 3 2304.74 -33.93 44.44 245.92 94.42 7 10 28 1704.7 -32.95 35.34
 110.00 0 1 42 3582.94 -5.33 129.09 238.05 56.19 1 1 25 2982.9 -9.74 122.77

DIFFERENTIAL CORRECTIONS

TDE -.5845 TRA-1.0468 TC3 .9922 BAU .1765
 RDE -.2903 RRA -.2258 RC3 .4946 FAU .07337
 FDE 1.6339 FRA 2.4148 FC3-5.3328 BSP 7851
 BOE .6526 BRA 1.0709 BC3 1.1087 FSP -1648

MID-COURSE EXECUTION ACCURACY

SGT 2243.2 SGR 719.3 SG3 547.7
 RRT .9189 RRF -.9577 RTF -.9499
 SGB 2355.7 R23 -.1817 R13 -.9568
 SG1 2339.9 SG2 272.0 TMA 16.65

ORBIT DETERMINATION ACCURACY

ST 1126.0 SR 497.5 SS 1322.9
 CRT .9606 CRS .9796 CST .9966
 LSA 1802.2 MSA 131.1 SSA 15.3
 EL1 1224.4 EL2 127.1 ALF 23.27

LAUNCH DATE DEC 25 1968

FLIGHT TIME 134.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 352.935
 RL 147.13 LAL .00 LOL 93.27 VL 27.435 GAL 3.06 AZL 88.63 MCA 152.34 SMA 126.23 ECC .17379 INC 1.3686 V1 30.281
 RP 108.51 LAP .64 LOP 245.62 VP 37.346 GAP -5.94 AZP 91.21 TAL 165.15 TAP 317.49 RCA 104.29 APO 148.16 V2 34.923
 RC 59.010 GL 11.28 GP 16.52 ZAL 62.48 ZAP 32.41 ETS 334.86 ZAE 152.12 ETE 26.05 ZAC 123.44 ETC 152.52 CLP -28.28

PLANETOCENTRIC CONIC

C3 11.186 VHL 3.345 DLA 22.50 RAL 25.02 RAD 6567.4 VEL 11.514 PTH 2.01 VHP 4.836 DPA 27.22 RAP 29.00 ECC 1.1841
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 26 26 2874.71 -28.32 87.28 244.62 90.08 4 14 21 2274.7 -28.01 78.63
 90.00 22 5 17 3938.81 -8.29 157.31 239.56 62.83 23 10 56 3338.8 -11.87 150.46
 100.00 5 4 17 2559.19 -29.82 64.04 244.58 92.16 5 46 56 1959.2 -29.20 55.29
 100.00 23 10 7 3729.56 -6.97 141.21 238.85 60.86 24 12 16 3129.6 -10.80 134.52
 110.00 6 46 31 2239.36 -33.47 39.39 244.22 97.38 7 23 50 1639.4 -32.09 30.43
 110.00 23 44 22 3622.16 -3.84 131.15 236.92 56.01 24 44 44 3022.2 -8.28 124.87

DIFFERENTIAL CORRECTIONS

TDE -.5463 TRA -1.0142 TC3 1.0597 BAU .1870
 RDE -.2988 RRA -.2796 RC3 .6644 FAU .07949
 FDE 1.6582 FRA 2.6092 FC3 -6.1523 BSP 7887
 BOE .6226 BRA 1.0520 BC3 1.2508 FSP -1816

MID-COURSE EXECUTION ACCURACY

SGT 2216.9 SGR 853.4 SG3 601.2
 RRT .9350 RRF -.9753 RTF -.9513
 SGB 2375.5 R23 -.1999 R13 -.9610
 SG1 2358.4 SG2 284.4 THA 20.10

ORBIT DETERMINATION ACCURACY

ST 1092.9 SR 535.1 SS 1333.8
 CRT .9695 CRS .9842 CST .9974
 LSA 1801.4 MSA 120.2 SSA 15.5
 EL1 1211.1 EL2 118.3 ALF 25.66

LAUNCH DATE DEC 25 1968

FLIGHT TIME 136.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 359.499
 RL 147.13 LAL .00 LOL 93.27 VL 27.485 GAL 2.94 AZL 88.92 MCA 155.52 SMA 126.56 ECC .17020 INC 1.0842 V1 30.281
 RP 108.55 LAP .45 LOP 248.80 VP 37.372 GAP -5.41 AZP 90.99 TAL 165.42 TAP 320.94 RCA 105.02 APO 148.10 V2 34.911
 RC 60.976 GL 9.21 GP 19.47 ZAL 62.72 ZAP 36.26 ETS 333.95 ZAE 150.93 ETE 32.08 ZAC 122.13 ETC 150.78 CLP -31.21

PLANETOCENTRIC CONIC

C3 10.526 VHL 3.244 DLA 20.41 RAL 25.39 RAD 6567.4 VEL 11.485 PTH 2.00 VHP 4.631 DPA 30.01 RAP 27.89 ECC 1.1732
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 54 5 2767.56 -28.06 79.46 243.28 93.99 4 40 13 2167.6 -27.21 70.90
 90.00 21 40 38 4021.09 -5.71 161.97 238.39 62.22 22 47 39 3421.1 -9.38 155.22
 100.00 5 28 45 2462.32 -29.36 56.88 243.15 95.90 6 9 47 1862.3 -28.23 48.26
 100.00 22 48 40 3801.55 -4.56 145.21 237.76 60.43 23 52 1 3201.6 -8.47 138.59
 110.00 7 5 23 2159.98 -32.62 33.36 242.59 100.85 7 41 23 1560.0 -30.78 24.62
 110.00 23 28 31 3676.67 -1.76 134.00 236.02 55.86 24 29 47 3076.7 -6.23 127.76

DIFFERENTIAL CORRECTIONS

TDE -.4986 TRA -.9803 TC3 1.1117 BAU .2003
 RDE -.3078 RRA -.3500 RC3 .8892 FAU .08546
 FDE 1.6293 FRA 2.8165 FC3 -7.0289 BSP 7957
 BOE .5860 BRA 1.0409 BC3 1.4236 FSP -1985

MID-COURSE EXECUTION ACCURACY

SGT 2169.8 SGR 1031.1 SG3 653.7
 RRT .9444 RRF -.9864 RTF -.9519
 SGB 2402.3 R23 -.2089 R13 -.9660
 SG1 2382.4 SG2 308.7 THA 24.61

ORBIT DETERMINATION ACCURACY

ST 1040.7 SR 578.6 SS 1316.9
 CRT .9775 CRS .9878 CST .9982
 LSA 1772.1 MSA 107.4 SSA 16.0
 EL1 1185.9 EL2 107.2 ALF 28.78

LAUNCH DATE DEC 25 1968

FLIGHT TIME 138.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 366.040
 RL 147.13 LAL .00 LOL 93.27 VL 27.530 GAL 2.82 AZL 89.28 MCA 158.70 SMA 126.86 ECC .16700 INC .7210 V1 30.281
 RP 108.58 LAP .26 LOP 251.98 VP 37.394 GAP -4.90 AZP 90.67 TAL 165.67 TAP 324.37 RCA 105.68 APO 148.05 V2 34.900
 RC 63.000 GL 6.30 GP 23.22 ZAL 62.93 ZAP 40.62 ETS 332.82 ZAE 149.21 ETE 39.06 ZAC 120.15 ETC 148.89 CLP -34.31

PLANETOCENTRIC CONIC

C3 9.939 VHL 3.153 DLA 17.55 RAL 26.10 RAD 6567.4 VEL 11.460 PTH 1.99 VHP 4.472 DPA 33.45 RAP 26.12 ECC 1.1636
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 49 2640.55 -27.12 70.29 242.03 98.49 5 11 50 2040.5 -25.66 61.92
 90.00 21 12 34 4125.07 -2.38 167.80 237.62 61.77 22 21 19 3525.1 -6.13 161.13
 100.00 5 59 23 2345.28 -28.24 48.36 241.82 100.24 6 38 28 1745.3 -26.53 39.97
 100.00 22 23 42 3895.57 -1.39 150.38 237.07 60.14 23 28 37 3295.6 -5.35 143.83
 110.00 7 30 4 2061.56 -31.12 26.07 241.08 104.92 8 4 25 1461.6 -28.76 17.67
 110.00 23 9 30 3752.06 1.12 137.93 235.50 55.83 24 12 2 3152.1 -3.37 131.72

DIFFERENTIAL CORRECTIONS

TDE -.4403 TRA -.9435 TC3 1.1467 BAU .2195
 RDE -.3131 RRA -.4441 RC3 1.1892 FAU .09070
 FDE 1.5162 FRA 3.0215 FC3 -7.9005 BSP 8112
 BOE .5402 BRA 1.0428 BC3 1.6520 FSP -2142

MID-COURSE EXECUTION ACCURACY

SGT 2096.9 SGR 1266.0 SG3 699.7
 RRT .9492 RRF -.9929 RTF -.9519
 SGB 2449.5 R23 -.2036 R13 -.9722
 SG1 2425.1 SG2 344.4 THA 30.50

ORBIT DETERMINATION ACCURACY

ST 965.3 SR 623.6 SS 1258.1
 CRT .9849 CRS .9901 CST .9992
 LSA 1701.4 MSA 92.0 SSA 17.3
 EL1 1145.5 EL2 90.9 ALF 32.70

LAUNCH DATE DEC 25 1968

FLIGHT TIME 140.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 372.559
 RL 147.13 LAL .00 LOL 93.27 VL 27.570 GAL 2.72 AZL 89.76 MCA 161.88 SMA 127.13 ECC .16416 INC .2370 V1 30.281
 RP 108.62 LAP .07 LOP 255.16 VP 37.413 GAP -4.39 AZP 90.23 TAL 165.90 TAP 327.78 RCA 106.26 APO 148.00 V2 34.889
 RC 65.076 GL 2.12 GP 28.07 ZAL 63.15 ZAP 45.63 ETS 331.50 ZAE 146.50 ETE 46.85 ZAC 117.30 ETC 146.88 CLP -37.59

PLANETOCENTRIC CONIC

C3 9.458 VHL 3.075 DLA 13.51 RAL 27.28 RAD 6567.3 VEL 11.439 PTH 1.98 VHP 4.382 DPA 37.76 RAP 23.40 ECC 1.1557
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 14 2484.45 -25.07 59.33 241.05 103.61 5 51 38 1884.5 -22.95 51.30
 90.00 20 39 33 4261.59 2.03 175.42 237.53 61.75 21 50 35 3661.6 -1.77 168.79
 100.00 6 38 39 2199.28 -26.04 38.08 240.77 105.23 7 15 19 1599.3 -23.69 30.06
 100.00 21 53 49 4021.99 2.90 157.32 237.04 60.24 23 0 51 3422.0 -1.08 150.79
 110.00 8 2 49 1935.96 -28.57 17.18 239.88 109.61 8 35 5 1336.0 -25.63 9.24
 110.00 22 46 9 3858.08 5.16 143.48 235.64 56.16 23 50 27 3258.1 .68 137.26

DIFFERENTIAL CORRECTIONS

TDE -.3696 TRA -.9029 TC3 1.1570 BAU .2483
 RDE -.3051 RRA -.5733 RC3 1.5864 FAU .09405
 FDE 1.2774 FRA 3.1939 FC3 -8.6083 BSP 8487
 BOE .4793 BRA 1.0695 BC3 1.9635 FSP -2265

MID-COURSE EXECUTION ACCURACY

SGT 1993.3 SGR 1575.4 SG3 728.8
 RRT .9509 RRF -.9965 RTF -.9512
 SGB 2540.7 R23 -.1813 R13 -.9799
 SG1 2511.1 SG2 387.0 THA 37.99

ORBIT DETERMINATION ACCURACY

ST 862.5 SR 657.7 SS 1139.4
 CRT .9926 CRS .9913 CST .9995
 LSA 1571.2 MSA 76.5 SSA 19.3
 EL1 1082.8 EL2 63.8 ALF 37.27

LAUNCH DATE DEC 25 1968

FLIGHT TIME 142.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 379.054

RL 147.13 LAL .00 LOL 93.27 VL 27.606 GAL 2.64 AZL 90.44 MCA 165.05 SMA 127.37 ECC .16167 INC .4438 V1 30.281
 RP 108.65 LAP -.11 LOP 258.33 VP 37.429 GAP -3.91 AZP 89.57 TAL 166.10 TAP 331.15 RCA 106.78 APO 147.96 V2 34.878
 RC 67.198 GL -4.04 GP 34.43 ZAL 63.55 ZAP 51.49 ETS 330.07 ZAE 142.19 ETE 55.00 ZAC 113.30 ETC 144.84 CLP -40.99

PLANETOCENTRIC CONIC

C3 9.183 VHL 3.030 DLA 7.61 RAL 29.15 RAD 6567.3 VEL 11.427 PTH 1.98 VHP 4.402 DPA 43.28 RAP 19.22 ECC 1.1511
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 1 2283.52 -21.18 45.90 240.76 109.25 6 44 4 1683.5 -18.36 38.36
 90.00 19 58 39 4451.03 8.05 186.08 238.73 62.76 21 12 50 3851.0 4.34 179.37
 100.00 7 31 1 2009.36 -22.03 25.40 240.43 110.74 8 4 30 1409.4 -19.01 17.91
 100.00 21 16 20 4200.42 8.85 167.22 238.30 61.33 22 26 20 3600.4 4.95 160.60
 110.00 8 47 37 1769.63 -24.27 6.17 239.40 114.84 9 17 7 1169.6 -20.72 358.83
 110.00 22 16 13 4012.92 10.94 151.73 237.04 57.41 23 23 6 3412.9 6.57 145.37

DIFFERENTIAL CORRECTIONS

TDE -.2904 TRA -.8599 TC3 1.1162 BAU .2898
 RDE -.2648 RRA -.7564 RC3 2.0802 FAU .09321
 FDE .8792 FRA 3.2803 FC3-8.7871 BSP 9159
 BOE .3930 BRA 1.1453 BC3 2.3608 FSP -2297

MID-COURSE EXECUTION ACCURACY

SGT 1857.4 SGR 1980.4 SG3 724.3
 RRT .9500 RRF -.9984 RTF -.9492
 SGB 2715.1 R23 -.1452 R13 -.9877
 SG1 2681.1 SG2 428.2 THA 46.93

ORBIT DETERMINATION ACCURACY

ST 737.6 SR 662.9 SS 955.6
 CRT .9994 CRS .9912 CST .9927
 LSA 1374.4 MSA 86.3 SSA 15.9
 EL1 991.6 EL2 17.0 ALF 41.95

LAUNCH DATE DEC 25 1968

FLIGHT TIME 144.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 385.536

RL 147.13 LAL .00 LOL 93.27 VL 27.637 GAL 2.57 AZL 91.48 MCA 168.22 SMA 127.58 ECC .15953 INC 1.4806 V1 30.281
 RP 108.68 LAP -.30 LOP 261.50 VP 37.442 GAP -3.44 AZP 88.55 TAL 166.25 TAP 334.47 RCA 107.22 APO 147.93 V2 34.867
 RC 69.360 GL -13.43 GP 42.82 ZAL 64.58 ZAP 58.38 ETS 328.68 ZAE 135.52 ETE 62.75 ZAC 107.83 ETC 142.91 CLP -44.38

PLANETOCENTRIC CONIC

C3 9.434 VHL 3.071 DLA -1.31 RAL 32.10 RAD 6567.3 VEL 11.438 PTH 1.98 VHP 4.630 DPA 50.33 RAP 12.55 ECC 1.1553
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 24 46 2010.05 -14.14 28.93 242.40 114.79 7 58 16 1410.0 -10.68 21.96
 90.00 19 3 27 4734.98 16.39 202.76 242.76 66.58 20 22 22 4135.0 13.08 195.64
 100.00 8 45 30 1749.61 -14.93 9.39 242.01 116.20 9 14 40 1149.6 -11.29 2.49
 100.00 20 25 24 4470.64 17.19 182.94 242.38 65.16 21 39 55 3870.6 13.70 175.89
 110.00 9 52 22 1540.35 -17.03 352.33 240.84 120.10 10 18 2 940.3 -12.91 345.66
 110.00 21 35 3 4252.64 19.32 165.26 241.25 61.24 22 45 55 3652.6 15.33 158.41

DIFFERENTIAL CORRECTIONS

TDE -.3046 TRA -.9102 TC3 .5635 BAU .2945
 RDE -.2252 RRA -1.1031 RC3 2.2662 FAU .07448
 FDE .5498 FRA 3.4237 FC3-6.8348 BSP 7516
 BOE .3788 BRA 1.4301 BC3 2.3352 FSP -1690

MID-COURSE EXECUTION ACCURACY

SGT 1824.0 SGR 2520.1 SG3 666.4
 RRT .9172 RRF -.9993 RTF -.9159
 SGB 3111.0 R23 -.1387 R13 -.9897
 SG1 3052.6 SG2 599.9 THA 54.86

ORBIT DETERMINATION ACCURACY

ST 763.3 SR 748.0 SS 871.0
 CRT .9699 CRS .9944 CST .9390
 LSA 1363.7 MSA 202.5 SSA 6.7
 EL1 1060.6 EL2 131.1 ALF 44.40

LAUNCH DATE DEC 25 1968

FLIGHT TIME 146.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 391.968

RL 147.13 LAL .00 LOL 93.27 VL 27.663 GAL 2.51 AZL 93.26 MCA 171.38 SMA 127.76 ECC .15768 INC 3.2644 V1 30.281
 RP 108.72 LAP -.49 LOP 264.67 VP 37.453 GAP -2.98 AZP 86.77 TAL 166.38 TAP 337.76 RCA 107.61 APO 147.90 V2 34.858
 RC 71.560 GL -27.82 GP 53.92 ZAL 67.49 ZAP 66.46 ETS 327.55 ZAE 125.69 ETE 69.29 ZAC 100.56 ETC 141.40 CLP -47.31

PLANETOCENTRIC CONIC

C3 11.371 VHL 3.372 DLA -14.95 RAL 36.75 RAD 6567.4 VEL 11.522 PTH 2.01 VHP 5.309 DPA 59.07 RAP .62 ECC 1.1871
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 32 10 1604.17 -1.59 5.72 249.42 118.28 9 58 54 1004.2 2.20 359.09
 90.00 17 33 11 5216.13 26.33 234.39 253.77 79.20 19 0 7 4616.1 24.58 226.16
 100.00 10 45 25 1367.82 -2.56 347.81 248.89 119.79 11 8 12 767.8 1.43 341.28
 100.00 19 2 37 4927.71 27.41 212.92 253.52 77.59 20 24 45 4327.7 25.43 204.69
 110.00 11 35 36 1210.63 -5.03 334.34 247.35 123.86 11 55 46 610.6 -5.55 328.12
 110.00 20 28 55 4657.67 30.23 191.58 252.68 73.22 21 46 33 4057.7 27.63 183.35

DIFFERENTIAL CORRECTIONS

TDE -.1771 TRA -.8193 TC3 .5805 BAU .3921
 RDE .0757 RRA -1.4842 RC3 2.5127 FAU .06212
 FDE -.2117 FRA 2.8719 FC3-4.7296 BSP 10840
 BOE .1926 BRA 1.6953 BC3 2.5789 FSP -1605

MID-COURSE EXECUTION ACCURACY

SGT 1523.1 SGR 3114.6 SG3 517.1
 RRT .9244 RRF -.9997 RTF -.9235
 SGB 3467.1 R23 -.0733 R13 -.9971
 SG1 3426.7 SG2 528.0 THA 65.04

ORBIT DETERMINATION ACCURACY

ST 526.9 SR 795.2 SS 715.7
 CRT .7169 CRS .9975 CST .6664
 LSA 1137.4 MSA 358.1 SSA 2.5
 EL1 896.5 EL2 325.8 ALF 60.28

LAUNCH DATE DEC 25 1968

FLIGHT TIME 148.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 398.367

RL 147.13 LAL .00 LOL 93.27 VL 27.686 GAL 2.47 AZL 97.08 MCA 174.52 SMA 127.91 ECC .15615 INC 7.0782 V1 30.281
 RP 108.74 LAP -.67 LOP 267.84 VP 37.461 GAP -2.54 AZP 82.95 TAL 166.44 TAP 340.96 RCA 107.94 APO 147.89 V2 34.848
 RC 73.792 GL -47.68 GP 68.31 ZAL 73.97 ZAP 75.44 ETS 326.06 ZAE 111.88 ETE 72.85 ZAC 91.52 ETC 139.82 CLP -47.14

PLANETOCENTRIC CONIC

C3 21.252 VHL 4.610 DLA -33.69 RAL 44.12 RAD 6567.9 VEL 11.943 PTH 2.13 VHP 7.253 DPA 68.45 RAP 335.13 ECC 1.3498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.93 11 38 2 1365.93 22.71 .97 275.23 115.59 12 0 48 765.9 25.96 353.36
 109.07 16 26 5 5735.94 22.72 270.51 275.24 115.58 18 1 41 5135.9 25.97 262.90
 70.93 11 38 2 1365.93 22.71 .97 275.23 115.59 12 0 48 765.9 25.96 353.36
 109.07 16 26 5 5735.94 22.72 270.51 275.24 115.58 18 1 41 5135.9 25.97 262.90
 110.00 15 47 54 5852.77 18.80 277.43 273.07 119.09 17 25 26 5252.8 22.53 270.28
 110.00 17 15 25 5585.14 26.74 260.73 277.20 112.13 18 48 30 4985.1 29.50 252.63

DIFFERENTIAL CORRECTIONS

TDE -.1830 TRA -.8817 TC3 .2342 BAU .4196
 RDE .5997 RRA -2.2734 RC3 1.4582 FAU .03223
 FDE -.5655 FRA 2.1472 FC3 1.3127 BSP 12359
 BOE .6270 BRA 2.4384 BC3 1.4769 FSP -953

MID-COURSE EXECUTION ACCURACY

SGT 1353.9 SGR 3727.7 SG3 302.4
 RRT .9102 RRF -.9999 RTF -.9130
 SGB 3966.0 R23 -.0384 R13 -.9992
 SG1 3930.1 SG2 531.9 THA 71.35

ORBIT DETERMINATION ACCURACY

ST 455.9 SR 1263.0 SS 747.0
 CRT .4052 CRS 1.0000 CST .4059
 LSA 1479.9 MSA 413.2 SSA 1.0
 EL1 1278.0 EL2 411.9 ALF 80.70

LAUNCH DATE DEC 25 1968

FLIGHT TIME 150.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 27.706 GAL 2.46 AZL 110.70 MCA 177.57 SMA 128.05 ECC .15497 INC20.6956 V1 30.281
 RP 108.77 LAP -.86 LOP 271.01 VP 37.467 GAP -2.14 AZP 69.32 TAL 166.37 TAP 343.94 RCA 108.20 APO 147.89 V2 34.839
 RC 76.053 GL -64.97 GP 83.73 ZAL 83.25 ZAP 84.18 ETS 280.64 ZAE 91.25 ETE 29.44 ZAC 81.35 ETC 95.71 CLP 21.97

PLANETOCENTRIC CONIC

C3 116.542 VHL 10.795 DLA -50.84 RAL 50.82 RAD 6570.2 VEL 15.423 PTH 2.76 VHP 15.298 DPA 71.51 RAP 272.65 ECC 2.9180
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.84 10 13 32 2082.87 12.59 54.24 310.32 139.68 10 48 15 1482.9 18.63 49.21
 134.16 18 44 2 5834.66 12.61 270.61 310.34 139.68 20 21 16 5234.7 18.65 265.58
 45.84 10 13 32 2082.87 12.59 54.24 310.32 139.68 10 48 15 1482.9 18.63 49.21
 134.16 18 44 2 5834.66 12.61 270.61 310.34 139.68 20 21 16 5234.7 18.65 265.58
 45.84 10 13 32 2082.87 12.59 54.24 310.32 139.68 10 48 15 1482.9 18.63 49.21
 134.16 18 44 2 5834.66 12.61 270.61 310.34 139.68 20 21 16 5234.7 18.65 265.58

DIFFERENTIAL CORRECTIONS

TDE 1.1163 TRA-4.4398 TC3 -.0041 BAU .0617
 RDE 1.8592 RRA-2.1213 RC3 .0394 FAU-.00031
 FDE -.5897 FRA 1.4969 FC3 .0023 BSP 13966
 BOE 2.1686 BRA 4.9205 BC3 .0396 FSP -376

MID-COURSE EXECUTION ACCURACY

SGT 3778.1 SGR 2039.4 SG3 112.0
 RRT .9391 RRF -.9649 RTF -.9963
 SGB 4293.4 R23 -.0092 R13 -.9999
 SG1 4247.9 SG2 -623.2 TMA 27.52

ORBIT DETERMINATION ACCURACY

ST 1266.5 SR 1122.4 SS 648.1
 CRT .8324 CRS .9280 CST .9790
 LSA 1745.5 MSA 486.8 SSA .6
 EL1 1621.0 EL2 485.9 ALF 40.86

LAUNCH DATE DEC 25 1968

FLIGHT TIME 152.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 27.721 GAL 2.31 AZL 40.83 MCA 181.37 SMA 128.15 ECC .15333 INC49.1648 V1 30.281
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.471 GAP -1.53 AZP 139.16 TAL 167.08 TAP 348.45 RCA 108.50 APO 147.80 V2 34.831
 RC 78.340 GL 59.74 GP -71.80 ZAL 87.18 ZAP 87.69 ETS 171.28 ZAE 72.15 ETE 62.55 ZAC 103.07 ETC 4.17 CLP 82.58

PLANETOCENTRIC CONIC

C3 588.717 VHL 24.263 DLA 55.43 RAL 331.33 RAD 6572.5 VEL 26.646 PTH 3.38 VHP 28.329 DPA -57.26 RAP 132.59 ECC10.6888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.13 16 37 45 4979.48 -1.38 235.90 240.40 34.58 18 0 44 4379.5 -7.96 231.75
 139.87 1 45 41 3369.12 -1.37 106.24 240.38 34.58 2 41 50 2769.1 -7.94 102.08
 40.13 16 37 45 4979.48 -1.38 235.90 240.40 34.58 18 0 44 4379.5 -7.96 231.75
 139.87 1 45 41 3369.12 -1.37 106.24 240.38 34.58 2 41 50 2769.1 -7.94 102.08
 40.13 16 37 45 4979.48 -1.38 235.90 240.40 34.58 18 0 44 4379.5 -7.96 231.75
 139.87 1 45 41 3369.12 -1.37 106.24 240.38 34.58 2 41 50 2769.1 -7.94 102.08

DIFFERENTIAL CORRECTIONS

TDE-5.4005 TRA 2.2597 TC3 -.1296 BAU 2.2190
 RDE-15.5321 RRA 1.4487 RC3 -.2504 FAU-.03902
 FDE 3.3930 FRA -.4313 FC3 .0574 BSP 11427
 BOE16.4442 BRA 2.6842 BC3 .2819 FSP -211

MID-COURSE EXECUTION ACCURACY

SGT 1704.7 SGR 3910.5 SG3 74.9
 RRT .9013 RRF -.9985 RTF -.9240
 SGB 4265.9 R23 -.0103 R13 -.9999
 SG1 4210.5 SG2 685.8 TMA 67.93

ORBIT DETERMINATION ACCURACY

ST 1306.2 SR 3672.4 SS 1965.6
 CRT .9858 CRS .9998 CST .9887
 LSA 4360.5 MSA 206.7 SSA .5
 EL1 3892.3 EL2 206.7 ALF 70.62

LAUNCH DATE DEC 25 1968

FLIGHT TIME 154.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 27.734 GAL 2.36 AZL 73.34 MCA 184.24 SMA 128.24 ECC .15284 INC16.6609 V1 30.281
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.473 GAP -1.20 AZP 106.62 TAL 166.70 TAP 350.94 RCA 108.64 APO 147.84 V2 34.824
 RC 80.651 GL 63.69 GP -77.97 ZAL 82.07 ZAP 84.10 ETS 43.95 ZAE 100.56 ETE 299.42 ZAC 111.98 ETC 233.45 CLP -60.45

PLANETOCENTRIC CONIC

C3 78.556 VHL 8.863 DLA 62.47 RAL 333.24 RAD 6569.5 VEL 14.139 PTH 2.58 VHP 8.908 DPA -57.96 RAP 78.02 ECC 2.2928
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.67 16 23 26 4720.24 -19.55 232.76 232.59 29.37 17 42 7 4120.2 -26.46 228.81
 148.33 2 15 11 3026.42 -19.53 92.47 232.57 29.37 3 5 37 2426.4 -26.45 88.51
 31.67 16 23 26 4720.24 -19.55 232.76 232.59 29.37 17 42 7 4120.2 -26.46 228.81
 148.33 2 15 11 3026.42 -19.53 92.47 232.57 29.37 3 5 37 2426.4 -26.45 88.51
 31.67 16 23 26 4720.24 -19.55 232.76 232.59 29.37 17 42 7 4120.2 -26.46 228.81
 148.33 2 15 11 3026.42 -19.53 92.47 232.57 29.37 3 5 37 2426.4 -26.45 88.51

DIFFERENTIAL CORRECTIONS

TDE-2.2391 TRA -.0359 TC3 .0346 BAU .2012
 RDE 6.2815 RRA -.7614 RC3 -.1884 FAU .01174
 FDE 3.7994 FRA -.3759 FC3 -.1293 BSP 13923
 BOE 6.6686 BRA .7623 BC3 .1915 FSP -719

MID-COURSE EXECUTION ACCURACY

SGT 1449.6 SGR 4211.2 SG3 217.9
 RRT -.9574 RRF .9989 RTF -.9690
 SGB 4453.7 R23 .0140 R13 .9998
 SG1 4436.0 SG2 397.5 TMA 108.39

ORBIT DETERMINATION ACCURACY

ST 1447.5 SR 4073.2 SS 1894.3
 CRT -.9960 CRS -.9999 CST .9972
 LSA 4718.0 MSA 121.5 SSA 1.0
 EL1 4321.1 EL2 121.2 ALF 109.51

LAUNCH DATE DEC 25 1968

FLIGHT TIME 156.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 27.744 GAL 2.38 AZL 79.10 MCA 187.36 SMA 128.31 ECC .15233 INC10.9004 V1 30.281
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.474 GAP -.80 AZP 100.81 TAL 166.56 TAP 353.92 RCA 108.76 APO 147.85 V2 34.816
 RC 82.981 GL 57.81 GP -64.46 ZAL 78.54 ZAP 83.34 ETS 19.69 ZAE 114.66 ETE 277.68 ZAC 115.81 ETC 207.82 CLP -74.40

PLANETOCENTRIC CONIC

C3 38.364 VHL 6.194 DLA 60.07 RAL 345.05 RAD 6568.5 VEL 12.639 PTH 2.29 VHP 5.575 DPA -49.80 RAP 58.78 ECC 1.6314
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.52 17 17 34 4532.29 -29.08 223.78 236.39 34.81 18 33 7 3932.3 -35.53 218.59
 145.48 2 55 15 2863.37 -29.07 86.90 236.37 34.81 3 42 59 2263.4 -35.52 81.72
 34.52 17 17 34 4532.29 -29.08 223.78 236.39 34.81 18 33 7 3932.3 -35.53 218.59
 145.48 2 55 15 2863.37 -29.07 86.90 236.37 34.81 3 42 59 2263.4 -35.52 81.72
 34.52 17 17 34 4532.29 -29.08 223.78 236.39 34.81 18 33 7 3932.3 -35.53 218.59
 145.48 2 55 15 2863.37 -29.07 86.90 236.37 34.81 3 42 59 2263.4 -35.52 81.72

DIFFERENTIAL CORRECTIONS

TDE .1176 TRA -.3005 TC3 -.0645 BAU .3694
 RDE 4.4307 RRA -.0335 RC3 -.7173 FAU .04577
 FDE 5.7203 FRA .0424 FC3 -1.0329 BSP 13111
 BOE 4.4322 BRA .3023 BC3 .7202 FSP -1535

MID-COURSE EXECUTION ACCURACY

SGT 573.2 SGR 4194.2 SG3 470.4
 RRT .2294 RRF .9993 RTF .2032
 SGB 4233.2 R23 .0310 R13 .9992
 SG1 4196.3 SG2 557.6 TMA 88.17

ORBIT DETERMINATION ACCURACY

ST 199.4 SR 4098.7 SS 2548.7
 CRT .5493 CRS -1.0000 CST -.5418
 LSA 4827.7 MSA 168.0 SSA 1.9
 EL1 4100.2 EL2 166.6 ALF 88.47

LAUNCH DATE DEC 25 1968

FLIGHT TIME 158.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 430.386

RL 147.13 LAL .00 LOL 93.27 VL 27.751 GAL 2.40 AZL 81.43 MCA 190.50 SMA 128.36 ECC .15202 INC 8.5691 V1 30.281
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.473 GAP -.41 AZP 98.43 TAL 166.40 TAP 356.91 RCA 108.84 APO 147.87 V2 34.810
 RC 85.328 GL 52.93 GP -54.46 ZAL 76.12 ZAP 85.03 ETS 10.67 ZAE 124.82 ETE 269.42 ZAC 117.05 ETC 197.56 CLP -81.42

PLANETOCENTRIC CONIC

C3 26.811 VHL 5.178 DLA 57.12 RAL 352.72 RAD 6568.1 VEL 12.173 PTH 2.18 VHP 4.342 DPA -42.73 RAP 48.14 ECC 1.4412
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.07 17 57 25 4424.54 -32.86 215.91 238.06 40.26 19 11 9 3824.5 -38.79 209.70
 141.93 3 16 39 2791.04 -32.85 83.51 238.04 40.25 4 3 10 2191.0 -38.78 77.31
 38.07 17 57 25 4424.54 -32.86 215.91 238.06 40.26 19 11 9 3824.5 -38.79 209.70
 141.93 3 16 39 2791.04 -32.85 83.51 238.04 40.25 4 3 10 2191.0 -38.78 77.31
 38.07 17 57 25 4424.54 -32.86 215.91 238.06 40.26 19 11 9 3824.5 -38.79 209.70
 141.93 3 16 39 2791.04 -32.85 83.51 238.04 40.25 4 3 10 2191.0 -38.78 77.31

DIFFERENTIAL CORRECTIONS

TOE .6419 TRA -.2458 TC3 -.2768 BAU .3954
 RDE 3.2876 RRA .2438 RC3-1.0678 FAU .08072
 FDE 7.2641 FRA .6555 FC3-2.6066 BSP 12228
 BOE 3.3497 BRA .3462 BC3 1.1031 FSP -2435

MID-COURSE EXECUTION ACCURACY

SGT 915.3 SGR 3834.5 SG3 741.6
 RRT .7557 RRF .9992 RTF .7400
 SGB 3942.2 R23 .0509 R13 .9982
 SG1 3897.9 SG2 589.7 THA 79.53

ORBIT DETERMINATION ACCURACY

ST 726.1 SR 3641.0 SS 3019.2
 CRT .9690 CRS-1.0000 CST -.9668
 LSA 4782.0 MSA 181.0 SSA 2.5
 EL1 3708.5 EL2 176.0 ALF 79.04

LAUNCH DATE DEC 25 1968

FLIGHT TIME 160.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 436.685

RL 147.13 LAL .00 LOL 93.27 VL 27.755 GAL 2.43 AZL 82.69 MCA 193.66 SMA 128.39 ECC .15192 INC 7.3055 V1 30.281
 RP 108.88 LAP -1.72 LOP 286.82 VP 37.471 GAP -.02 AZP 97.10 TAL 166.20 TAP 359.86 RCA 108.88 APO 147.89 V2 34.804
 RC 87.691 GL 49.17 GP -46.70 ZAL 74.35 ZAP 88.32 ETS 4.62 ZAE 132.34 ETE 261.90 ZAC 116.64 ETC 190.39 CLP -87.56

PLANETOCENTRIC CONIC

C3 21.720 VHL 4.660 DLA 54.57 RAL 357.76 RAD 6567.9 VEL 11.962 PTH 2.13 VHP 3.747 DPA -37.12 RAP 40.72 ECC 1.3575
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.18 18 26 7 4355.12 -34.30 209.69 238.74 44.56 19 38 42 3755.1 -39.79 202.80
 138.82 3 28 8 2757.24 -34.29 81.46 238.73 44.56 4 14 5 2157.2 -39.78 74.58
 41.18 18 26 7 4355.12 -34.30 209.69 238.74 44.56 19 38 42 3755.1 -39.79 202.80
 138.82 3 28 8 2757.24 -34.29 81.46 238.73 44.56 4 14 5 2157.2 -39.78 74.58
 41.18 18 26 7 4355.12 -34.30 209.69 238.74 44.56 19 38 42 3755.1 -39.79 202.80
 138.82 3 28 8 2757.24 -34.29 81.46 238.73 44.56 4 14 5 2157.2 -39.78 74.58

DIFFERENTIAL CORRECTIONS

TDE .9477 TRA -.1555 TC3 -.5543 BAU .3926
 RDE 2.5673 RRA .3628 RC3-1.2333 FAU .11038
 FDE 8.2626 FRA 1.3275 FC3-4.3998 BSP 11267
 BOE 2.7366 BRA .3947 BC3 1.3521 FSP -3200

MID-COURSE EXECUTION ACCURACY

SGT 1316.5 SGR 3446.0 SG3 977.2
 RRT .8856 RRF .9991 RTF .8748
 SGB 3688.9 R23 .0766 R13 .9964
 SG1 3643.3 SG2 578.4 THA 70.81

ORBIT DETERMINATION ACCURACY

ST 1169.4 SR 3164.8 SS 3300.5
 CRT .9876 CRS -.9999 CST -.9860
 LSA 4716.2 MSA 185.3 SSA 2.9
 EL1 3369.5 EL2 172.5 ALF 69.90

LAUNCH DATE DEC 25 1968

FLIGHT TIME 162.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 442.966

RL 147.13 LAL .00 LOL 93.27 VL 27.757 GAL 2.48 AZL 83.49 MCA 196.81 SMA 128.40 ECC .15202 INC 6.5096 V1 30.281
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.468 GAP .37 AZP 96.23 TAL 165.96 TAP 377.77 RCA 108.88 APO 147.92 V2 34.799
 RC 90.065 GL 46.22 GP -40.50 ZAL 72.92 ZAP 92.57 ETS .15 ZAE 137.75 ETE 253.75 ZAC 115.26 ETC 184.97 CLP -93.38

PLANETOCENTRIC CONIC

C3 18.963 VHL 4.355 DLA 52.49 RAL 1.37 RAD 6567.8 VEL 11.847 PTH 2.10 VHP 3.427 DPA -32.69 RAP 34.93 ECC 1.3121
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.77 18 48 5 4306.19 -34.77 204.83 239.18 47.84 19 59 51 3706.2 -39.90 197.52
 136.23 3 34 59 2741.40 -34.75 80.25 239.17 47.83 4 20 41 2141.4 -39.89 72.94
 43.77 18 48 5 4306.19 -34.77 204.83 239.18 47.84 19 59 51 3706.2 -39.90 197.52
 136.23 3 34 59 2741.40 -34.75 80.25 239.17 47.83 4 20 41 2141.4 -39.89 72.94
 43.77 18 48 5 4306.19 -34.77 204.83 239.18 47.84 19 59 51 3706.2 -39.90 197.52
 136.23 3 34 59 2741.40 -34.75 80.25 239.17 47.83 4 20 41 2141.4 -39.89 72.94

DIFFERENTIAL CORRECTIONS

TDE 1.1817 TRA -.0520 TC3 -.8696 BAU .3918
 RDE 2.0623 RRA .4058 RC3-1.2774 FAU .13344
 FDE 8.7618 FRA 1.9416 FC3-6.0920 BSP 10630
 BOE 2.3769 BRA .4092 BC3 1.5453 FSP -3813

MID-COURSE EXECUTION ACCURACY

SGT 1735.1 SGR 3061.0 SG3 1154.8
 RRT .9355 RRF .9988 RTF .9269
 SGB 3517.5 R23 .1055 R13 .9934
 SG1 3476.0 SG2 539.2 THA 61.34

ORBIT DETERMINATION ACCURACY

ST 1555.3 SR 2726.4 SS 3434.4
 CRT .9930 CRS -.9999 CST -.9915
 LSA 4648.9 MSA 185.8 SSA 3.5
 EL1 3134.7 EL2 159.7 ALF 60.38

LAUNCH DATE DEC 25 1968

FLIGHT TIME 164.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 449.230

RL 147.13 LAL .00 LOL 93.27 VL 27.757 GAL 2.53 AZL 84.04 MCA 199.97 SMA 128.40 ECC .15231 INC 5.9595 V1 30.281
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.463 GAP .74 AZP 95.60 TAL 165.67 TAP 5.64 RCA 108.84 APO 147.95 V2 34.795
 RC 92.449 GL 43.82 GP -35.41 ZAL 71.70 ZAP 97.31 ETS 356.79 ZAE 141.35 ETE 244.92 ZAC 113.41 ETC 180.83 CLP -98.98

PLANETOCENTRIC CONIC

C3 17.289 VHL 4.158 DLA 50.78 RAL 4.19 RAD 6567.7 VEL 11.776 PTH 2.08 VHP 3.252 DPA -29.14 RAP 30.13 ECC 1.2845
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.91 19 5 55 4269.53 -34.79 200.99 239.66 50.35 20 17 5 3669.5 -39.64 193.41
 134.09 3 39 38 2734.90 -34.78 79.59 239.65 50.34 4 25 13 2134.9 -39.63 72.01
 45.91 19 5 55 4269.53 -34.79 200.99 239.66 50.35 20 17 5 3669.5 -39.64 193.41
 134.09 3 39 38 2734.90 -34.78 79.59 239.65 50.34 4 25 13 2134.9 -39.63 72.01
 45.91 19 5 55 4269.53 -34.79 200.99 239.66 50.35 20 17 5 3669.5 -39.64 193.41
 134.09 3 39 38 2734.90 -34.78 79.59 239.65 50.34 4 25 13 2134.9 -39.63 72.01

DIFFERENTIAL CORRECTIONS

TDE 1.3785 TRA .0586 TC3-1.2043 BAU .3994
 RDE 1.6885 RRA .4121 RC3-1.2393 FAU .14923
 FDE 8.8786 FRA 2.4597 FC3-7.4727 BSP 10308
 BOE 2.1797 BRA .4163 BC3 1.7281 FSP -4235

MID-COURSE EXECUTION ACCURACY

SGT 2151.1 SGR 2698.6 SG3 1272.8
 RRT .9589 RRF .9982 RTF .9513
 SGB 3451.0 R23 .1311 R13 .9898
 SG1 3417.2 SG2 482.0 THA 51.71

ORBIT DETERMINATION ACCURACY

ST 1900.1 SR 2342.4 SS 3467.8
 CRT .9955 CRS -.9999 CST -.9939
 LSA 4592.2 MSA 185.1 SSA 4.1
 EL1 3012.9 EL2 140.3 ALF 50.98

LAUNCH DATE DEC 25 1968

FLIGHT TIME 166.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 27.754 GAL 2.60 AZL 84.45 MCA 203.13 SMA 128.38 ECC .15279 INC 5.5547 V1 30.281
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.458 GAP 1.12 AZP 95.11 TAL 165.32 TAP 8.45 RCA 108.77 APO 148.00 V2 34.791
 RC 94.840 GL 41.81 GP -31.17 ZAL 70.58 ZAP 102.23 ETS 354.24 ZAE 143.42 ETE 235.86 ZAC 111.38 ETC 177.67 CLP-104.33

PLANETOCENTRIC CONIC

C3 16.204 VHL 4.025 DLA 49.37 RAL 6.55 RAD 6567.6 VEL 11.730 PTH 2.07 VHP 3.165 DPA -26.23 RAP 26.07 ECC 1.2667
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.71 19 21 8 4240.92 -34.60 197.89 240.26 52.30 20 31 49 3640.9 -39.23 190.14
 132.29 3 43 15 2733.74 -34.59 79.29 240.25 52.29 4 28 49 2133.7 -39.22 71.54
 47.71 19 21 8 4240.92 -34.60 197.89 240.26 52.30 20 31 49 3640.9 -39.23 190.14
 32.29 3 43 15 2733.74 -34.59 79.29 240.25 52.29 4 28 49 2133.7 -39.22 71.54
 47.71 19 21 8 4240.92 -34.60 197.89 240.26 52.30 20 31 49 3640.9 -39.23 190.14
 132.29 3 43 15 2733.74 -34.59 79.29 240.25 52.29 4 28 49 2133.7 -39.22 71.54

DIFFERENTIAL CORRECTIONS

TDE 1.5478 TRA .1729 TC3-1.5447 BAU .4175
 RDE 1.4005 RRA .3982 RC3-1.1924 FAU .15853
 FDE 8.7100 FRA 2.8629 FC3-8.4696 BSP 10354
 BOE 2.0874 BRA .4341 BC3 1.9272 FSP -4492

MID-COURSE EXECUTION ACCURACY

SGT 2357.9 SGR 2364.7 SG3 1336.7
 RRT .9712 RRF .9973 RTF .9642
 SGB 3483.5 R23 .1473 R13 .9865
 SG1 3458.4 SG2 417.0 TMA 42.69

ORBIT DETERMINATION ACCURACY

ST 2206.3 SR 2010.7 SS 3429.5
 CRT .9969 CRS -.9998 CST -.9951
 LSA 4542.9 MSA 184.0 SSA 4.7
 EL1 2982.7 EL2 117.2 ALF 42.34

LAUNCH DATE DEC 25 1968

FLIGHT TIME 168.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 27.750 GAL 2.68 AZL 84.76 MCA 206.29 SMA 128.35 ECC .15346 INC 5.2424 V1 30.281
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.452 GAP 1.49 AZP 94.70 TAL 164.93 TAP 11.22 RCA 108.65 APO 148.05 V2 34.788
 RC 97.236 GL 40.07 GP -27.57 ZAL 69.51 ZAP 107.13 ETS 352.33 ZAE 144.23 ETE 227.15 ZAC 109.40 ETC 175.27 CLP-109.40

PLANETOCENTRIC CONIC

C3 15.479 VHL 3.934 DLA 48.17 RAL 8.64 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 3.138 DPA -23.79 RAP 22.63 ECC 1.2547
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.25 19 34 38 4218.03 -34.31 195.36 241.01 53.84 20 44 56 3618.0 -38.76 187.49
 130.75 3 46 27 2735.87 -34.30 79.24 241.00 53.83 4 32 2 2135.9 -38.75 71.37
 49.25 19 34 38 4218.03 -34.31 195.36 241.01 53.84 20 44 56 3618.0 -38.76 187.49
 130.75 3 46 27 2735.87 -34.30 79.24 241.00 53.83 4 32 2 2135.9 -38.75 71.37
 49.25 19 34 38 4218.03 -34.31 195.36 241.01 53.84 20 44 56 3618.0 -38.76 187.49
 130.75 3 46 27 2735.87 -34.30 79.24 241.00 53.83 4 32 2 2135.9 -38.75 71.37

DIFFERENTIAL CORRECTIONS

TDE 1.6961 TRA .2905 TC3-1.8751 BAU .4432
 RDE 1.1753 RRA .3744 RC3-1.0351 FAU .16185
 FDE 8.3536 FRA 3.1611 FC3-9.0527 BSP 10686
 BOE 2.0635 BRA .4739 BC3 2.1419 FSP -4596

MID-COURSE EXECUTION ACCURACY

SGT 2946.3 SGR 2064.3 SG3 1356.2
 RRT .9780 RRF .9958 RTF .9717
 SGB 3597.5 R23 .1508 R13 .9844
 SG1 3580.0 SG2 354.5 TMA 34.81

ORBIT DETERMINATION ACCURACY

ST 2477.8 SR 1729.3 SS 3346.0
 CRT .9979 CRS -.9996 CST -.9958
 LSA 4504.7 MSA 182.8 SSA 5.4
 EL1 3020.1 EL2 92.9 ALF 34.89

LAUNCH DATE DEC 25 1968

FLIGHT TIME 170.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 27.744 GAL 2.77 AZL 85.01 MCA 209.45 SMA 128.31 ECC .15431 INC 4.9931 V1 30.281
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.446 GAP 1.85 AZP 94.35 TAL 164.49 TAP 13.94 RCA 108.51 APO 148.11 V2 34.786
 RC 99.636 GL 38.53 GP -24.50 ZAL 68.45 ZAP 111.88 ETS 350.89 ZAE 144.09 ETE 219.29 ZAC 107.57 ETC 175.46 CLP-114.18

PLANETOCENTRIC CONIC

C3 14.993 VHL 3.872 DLA 47.14 RAL 10.57 RAD 6567.6 VEL 11.678 PTH 2.05 VHP 3.153 DPA -21.70 RAP 19.73 ECC 1.2467
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.59 19 46 59 4199.35 -33.96 193.24 241.92 55.09 20 56 59 3599.3 -38.26 185.30
 129.41 3 49 30 2740.23 -33.95 79.35 241.91 55.08 4 35 11 2140.2 -38.25 71.42
 50.59 19 46 59 4199.35 -33.96 193.24 241.92 55.09 20 56 59 3599.3 -38.26 185.30
 129.41 3 49 30 2740.23 -33.95 79.35 241.91 55.08 4 35 11 2140.2 -38.25 71.42
 50.59 19 46 59 4199.35 -33.96 193.24 241.92 55.09 20 56 59 3599.3 -38.26 185.30
 129.41 3 49 30 2740.23 -33.95 79.35 241.91 55.08 4 35 11 2140.2 -38.25 71.42

DIFFERENTIAL CORRECTIONS

TDE 1.8245 TRA .4098 TC3-2.1888 BAU .4750
 RDE .9965 RRA .3454 RC3 -.9078 FAU .16095
 FDE 7.8745 FRA 3.3617 FC3-9.2937 BSP 11248
 BOE 2.0789 BRA .5360 BC3 2.3696 FSP -4583

MID-COURSE EXECUTION ACCURACY

SGT 3310.1 SGR 1798.1 SG3 1341.5
 RRT .9816 RRF .9935 RTF .9764
 SGB 3767.0 R23 .1416 R13 .9834
 SG1 3754.8 SG2 302.6 TMA 28.27

ORBIT DETERMINATION ACCURACY

ST 2713.5 SR 1491.8 SS 3230.7
 CRT .9986 CRS -.9994 CST -.9962
 LSA 4471.4 MSA 181.5 SSA 6.1
 EL1 3095.8 EL2 69.5 ALF 28.78

LAUNCH DATE DEC 25 1968

FLIGHT TIME 172.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

RL 147.13 LAL .00 LOL 93.27 VL 27.736 GAL 2.88 AZL 85.21 MCA 212.61 SMA 128.25 ECC .15534 INC 4.7881 V1 30.281
 RP 108.94 LAP -2.58 LOP 305.79 VP 37.438 GAP 2.21 AZP 94.04 TAL 164.00 TAP 16.61 RCA 108.33 APO 148.18 V2 34.784
 RC 102.038 GL 37.12 GP -21.87 ZAL 67.39 ZAP 116.42 ETS 349.83 ZAE 143.29 ETE 212.54 ZAC 105.99 ETC 172.10 CLP-118.65

PLANETOCENTRIC CONIC

C3 14.680 VHL 3.831 DLA 46.24 RAL 12.42 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 3.201 DPA -19.87 RAP 17.33 ECC 1.2416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.78 19 58 35 4183.91 -33.57 191.46 242.97 56.11 21 8 19 3583.9 -37.75 183.47
 128.22 3 52 36 2746.24 -33.56 79.61 242.96 56.09 4 38 23 2146.2 -37.74 71.63
 51.78 19 58 35 4183.91 -33.57 191.46 242.97 56.11 21 8 19 3583.9 -37.75 183.47
 128.22 3 52 36 2746.24 -33.56 79.61 242.96 56.09 4 38 23 2146.2 -37.74 71.63
 51.78 19 58 35 4183.91 -33.57 191.46 242.97 56.11 21 8 19 3583.9 -37.75 183.47
 128.22 3 52 36 2746.24 -33.56 79.61 242.96 56.09 4 38 23 2146.2 -37.74 71.63

DIFFERENTIAL CORRECTIONS

TDE 1.9363 TRA .5308 TC3-2.4764 BAU .5094
 RDE .8544 RRA .3149 RC3 -.7779 FAU .15655
 FDE 7.3331 FRA 3.4826 FC3-9.2325 BSP 11941
 BOE 2.1164 BRA .6172 BC3 2.5957 FSP -4478

MID-COURSE EXECUTION ACCURACY

SGT 3647.3 SGR 1565.6 SG3 1301.8
 RRT .9828 RRF .9901 RTF .9794
 SGB 3969.1 R23 .1209 R13 .9832
 SG1 3960.2 SG2 266.3 TMA 22.98

ORBIT DETERMINATION ACCURACY

ST 2916.5 SR 1294.0 SS 3097.4
 CRT .9992 CRS -.9990 CST -.9964
 LSA 4443.2 MSA 180.1 SSA 6.8
 EL1 3190.3 EL2 47.9 ALF 23.91

LAUNCH DATE DEC 25 1968

FLIGHT TIME 174.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 480.265

RL 147.13 LAL .00 LOL 93.27 VL 27.727 GAL 3.00 AZL 85.38 MCA 215.77 SMA 128.19 ECC .15655 INC 4.6157 V1 30.281
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.431 GAP 2.57 AZP 93.75 TAL 163.47 TAP 19.24 RCA 108.12 APO 148.26 V2 34.783
 RC 104.441 GL 35.82 GP -19.61 ZAL 66.30 ZAP 120.69 ETS 349.04 ZAE 142.09 ETE 206.94 ZAC 104.69 ETC 171.09 CLP-122.80

PLANETOCENTRIC CONIC

C3 14.499 VHL 3.808 DLA 45.44 RAL 14.21 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 3.275 DPA -18.24 RAP 15.39 ECC 1.2386
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.85 20 9 40 4171.04 -33.16 189.93 244.17 56.95 21 19 11 3571.0 -37.25 181.92
 127.15 3 55 49 2753.60 -33.15 79.97 244.16 56.94 4 41 43 2153.6 -37.23 71.96
 52.85 20 9 40 4171.04 -33.16 189.93 244.17 56.95 21 19 11 3571.0 -37.25 181.92
 127.15 3 55 49 2753.60 -33.15 79.97 244.16 56.94 4 41 43 2153.6 -37.23 71.96
 52.85 20 9 40 4171.04 -33.16 189.93 244.17 56.95 21 19 11 3571.0 -37.25 181.92
 127.15 3 55 49 2753.60 -33.15 79.97 244.16 56.94 4 41 43 2153.6 -37.23 71.96

DIFFERENTIAL CORRECTIONS

TDE 2.0345 TRA .6554 TC3-2.7295 BAU .5439
 RDE .7421 RRA .2856 RC3 -.6508 FAU .14935
 FDE 6.7774 FRA 3.5509 FC3-8.9181 BSP 12668
 BOE 2.1657 BRA .7149 BC3 2.8061 FSP -4295

MID-COURSE EXECUTION ACCURACY

SGT 3958.4 SGR 1366.6 SG3 1246.4
 RRT .9815 RRF .9849 RTF .9814
 SGB 4187.7 R23 .0934 R13 .9835
 SG1 4180.3 SG2 247.7 THA 18.79

ORBIT DETERMINATION ACCURACY

ST 3091.0 SR 1131.8 SS 2958.0
 CRT .9996 CRS -.9983 CST -.9965
 LSA 4421.8 MSA 179.0 SSA 7.5
 EL1 3291.5 EL2 28.8 ALF 20.11

LAUNCH DATE DEC 25 1968

FLIGHT TIME 176.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 486.414

RL 147.13 LAL .00 LOL 93.27 VL 27.716 GAL 3.13 AZL 85.53 MCA 218.93 SMA 128.12 ECC .15794 INC 4.4679 V1 30.281
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.423 GAP 2.93 AZP 93.48 TAL 162.89 TAP 21.82 RCA 107.88 APO 148.35 V2 34.783
 RC 106.844 GL 34.58 GP -17.65 ZAL 65.19 ZAP 124.68 ETS 348.47 ZAE 140.67 ETE 202.37 ZAC 103.69 ETC 170.36 CLP-126.66

PLANETOCENTRIC CONIC

C3 14.425 VHL 3.798 DLA 44.71 RAL 15.98 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 3.370 DPA -16.76 RAP 13.88 ECC 1.2374
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.83 20 20 26 4160.32 -32.73 188.61 245.51 57.65 21 29 46 3560.3 -36.73 180.59
 126.17 3 59 12 2762.08 -32.72 80.43 245.50 57.64 4 45 14 2162.1 -36.72 72.41
 53.83 20 20 26 4160.32 -32.73 188.61 245.51 57.65 21 29 46 3560.3 -36.73 180.59
 126.17 3 59 12 2762.08 -32.72 80.43 245.50 57.64 4 45 14 2162.1 -36.72 72.41
 53.83 20 20 26 4160.32 -32.73 188.61 245.51 57.65 21 29 46 3560.3 -36.73 180.59
 126.17 3 59 12 2762.08 -32.72 80.43 245.50 57.64 4 45 14 2162.1 -36.72 72.41

DIFFERENTIAL CORRECTIONS

TDE 2.1185 TRA .7811 TC3-2.9534 BAU .5789
 RDE .6526 RRA .2572 RC3 -.5363 FAU .14116
 FDE 6.2210 FRA 3.5657 FC3-8.4716 BSP 13445
 BOE 2.2167 BRA .8223 BC3 3.0017 FSP -4087

MID-COURSE EXECUTION ACCURACY

SGT 4242.1 SGR 1197.1 SG3 1180.8
 RRT .9777 RRF .9775 RTF .9828
 SGB 4407.7 R23 .0640 R13 .9839
 SG1 4401.1 SG2 242.2 THA 15.47

ORBIT DETERMINATION ACCURACY

ST 3235.0 SR 998.0 SS 2812.1
 CRT .9999 CRS -.9973 CST -.9966
 LSA 4397.4 MSA 177.8 SSA 8.2
 EL1 3385.4 EL2 12.9 ALF 17.14

LAUNCH DATE DEC 25 1968

FLIGHT TIME 178.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 492.543

RL 147.13 LAL .00 LOL 93.27 VL 27.704 GAL 3.28 AZL 85.66 MCA 222.09 SMA 128.03 ECC .15951 INC 4.3389 V1 30.281
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.414 GAP 3.29 AZP 93.22 TAL 162.27 TAP 24.36 RCA 107.61 APO 148.46 V2 34.784
 RC 109.246 GL 35.41 GP -15.95 ZAL 64.04 ZAP 128.39 ETS 348.06 ZAE 139.17 ETE 198.68 ZAC 102.98 ETC 169.83 CLP-130.23

PLANETOCENTRIC CONIC

C3 14.445 VHL 3.801 DLA 44.04 RAL 17.75 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 3.483 DPA -15.40 RAP 12.75 ECC 1.2377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.74 20 31 1 4151.30 -32.28 187.46 246.97 58.25 21 40 13 3551.3 -36.22 179.44
 125.26 4 2 43 2771.69 -32.27 80.97 246.96 58.23 4 48 54 2171.7 -36.21 72.95
 54.74 20 31 1 4151.30 -32.28 187.46 246.97 58.25 21 40 13 3551.3 -36.22 179.44
 125.26 4 2 43 2771.69 -32.27 80.97 246.96 58.23 4 48 54 2171.7 -36.21 72.95
 54.74 20 31 1 4151.30 -32.28 187.46 246.97 58.25 21 40 13 3551.3 -36.22 179.44
 125.26 4 2 43 2771.69 -32.27 80.97 246.96 58.23 4 48 54 2171.7 -36.21 72.95

DIFFERENTIAL CORRECTIONS

TDE 2.1899 TRA .9087 TC3-3.1442 BAU .6129
 RDE .5817 RRA .2306 RC3 -.4340 FAU .13226
 FDE 5.6845 FRA 3.5431 FC3-7.9270 BSP 14227
 BOE 2.2659 BRA .9375 BC3 3.1740 FSP -3865

MID-COURSE EXECUTION ACCURACY

SGT 4499.2 SGR 1054.3 SG3 1109.7
 RRT .9708 RRF .9671 RTF .9839
 SGB 4621.1 R23 .0380 R13 .9844
 SG1 4614.5 SG2 246.8 THA 12.85

ORBIT DETERMINATION ACCURACY

ST 3351.3 SR 888.8 SS 2665.0
 CRT .9999 CRS -.9959 CST -.9966
 LSA 4369.5 MSA 176.5 SSA 8.8
 EL1 3467.2 EL2 10.9 ALF 14.85

LAUNCH DATE DEC 25 1968

FLIGHT TIME 180.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 498.652

RL 147.13 LAL .00 LOL 93.27 VL 27.690 GAL 3.44 AZL 85.78 MCA 225.25 SMA 127.94 ECC .16127 INC 4.2248 V1 30.281
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.405 GAP 3.64 AZP 92.98 TAL 161.60 TAP 26.85 RCA 107.31 APO 148.58 V2 34.785
 RC 111.645 GL 32.27 GP -14.48 ZAL 62.86 ZAP 131.83 ETS 347.76 ZAE 137.67 ETE 195.71 ZAC 102.55 ETC 169.45 CLP-133.54

PLANETOCENTRIC CONIC

C3 14.547 VHL 3.814 DLA 43.41 RAL 19.52 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 3.610 DPA -14.13 RAP 11.97 ECC 1.2394
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.61 20 41 32 4143.74 -31.82 186.44 248.55 58.75 21 50 36 3543.7 -35.69 178.43
 124.39 4 6 22 2782.37 -31.81 81.59 248.55 58.74 4 52 44 2182.4 -35.68 73.59
 55.61 20 41 32 4143.74 -31.82 186.44 248.55 58.75 21 50 36 3543.7 -35.69 178.43
 124.39 4 6 22 2782.37 -31.81 81.59 248.55 58.74 4 52 44 2182.4 -35.68 73.59
 55.61 20 41 32 4143.74 -31.82 186.44 248.55 58.75 21 50 36 3543.7 -35.69 178.43
 124.39 4 6 22 2782.37 -31.81 81.59 248.55 58.74 4 52 44 2182.4 -35.68 73.59

DIFFERENTIAL CORRECTIONS

TDE 2.2520 TRA 1.0406 TC3-3.2985 BAU .6450
 RDE .5263 RRA .2069 RC3 -.3435 FAU .12292
 FDE 5.1841 FRA 3.5023 FC3-7.3154 BSP 14966
 BOE 2.3127 BRA 1.0610 BC3 3.3164 FSP -3629

MID-COURSE EXECUTION ACCURACY

SGT 4733.6 SGR 936.4 SG3 1037.7
 RRT .9599 RRF .9531 RTF .9846
 SGB 4825.3 R23 .0185 R13 .9848
 SG1 4818.4 SG2 257.9 THA 10.78

ORBIT DETERMINATION ACCURACY

ST 3444.9 SR 801.1 SS 2522.3
 CRT .9995 CRS -.9938 CST -.9965
 LSA 4340.5 MSA 175.6 SSA 9.5
 EL1 3536.7 EL2 23.5 ALF 13.09

LAUNCH DATE DEC 25 1968

FLIGHT TIME 182.00

ARRIVAL DATE JUN 25 1969

Heliocentric Conic
 RL 147.13 LAL .00 LOL 93.27 VL 27.676 GAL -3.61 AZL 85.88 MCA 228.41 SMA 127.84 ECC .16322 INC 4.1226 V1 30.281
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.397 GAP 4.00 AZP 92.74 TAL 160.90 TAP 29.31 RCA 106.98 APO 148.71 V2 34.787
 RC 114.042 GL 31.16 GP -13.21 ZAL 61.63 ZAP 135.02 ETS 347.55 ZAE 136.22 ETE 193.31 ZAC 102.38 ETC 169.19 CLP-136.60

Distance 504.741

Planetocentric Conic
 C3 14.727 VHL 3.838 OLA 42.81 RAL 21.31 RAD 6567.6 VEL 11.667 PTH 2.05 VMP 3.750 DPA -12.93 RAP 11.50 ECC 1.2424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.44 20 52 1 4137.44 -31.33 185.53 250.25 59.18 22 0 59 3537.4 -35.15 177.54
 123.56 4 10 8 2794.14 -31.32 82.29 250.24 59.17 4 56 42 2194.1 -35.15 177.54
 56.44 20 52 1 4137.44 -31.33 185.53 250.25 59.18 22 0 59 3537.4 -35.15 177.54
 123.56 4 10 8 2794.14 -31.32 82.29 250.24 59.17 4 56 42 2194.1 -35.15 177.54
 56.44 20 52 1 4137.44 -31.33 185.53 250.25 59.18 22 0 59 3537.4 -35.15 177.54
 123.56 4 10 8 2794.14 -31.32 82.29 250.24 59.17 4 56 42 2194.1 -35.15 177.54

Differential Corrections
 TOE 2.3075 TRA 1.1788 TC3-3.4133 BAU .6740 SGT 4948.6 SGR 840.8 SG3 967.4 ST 3520.4 SR 731.5 SS 2387.9
 RDE .4840 RRA .1863 RC3 -.2641 FAU .11326 RRT .9445 RRF .9350 RTF .9850 CRT .9987 CRS -.9909 CST -.9965
 FDE 4.7287 FRA 3.4536 FC3-6.6583 BSP 15615 SGB 5019.5 R23 .0156 R13 .9851 LSA 4312.7 MSA 175.3 SSA 10.2
 BDE 2.3577 BRA 1.1934 BC3 3.4235 FSP -3379 SGI 5012.1 SG2 272.6 THA 9.14 EL1 3595.4 EL2 37.0 ALF 11.72

Orbit Determination Accuracy

LAUNCH DATE DEC 25 1968

FLIGHT TIME 184.00

ARRIVAL DATE JUN 27 1969

Heliocentric Conic
 RL 147.13 LAL .00 LOL 93.27 VL 27.660 GAL 3.80 AZL 85.97 MCA 231.57 SMA 127.74 ECC .16536 INC 4.0299 V1 30.281
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.388 GAP 4.36 AZP 92.51 TAL 160.16 TAP 31.73 RCA 106.61 APO 148.86 V2 34.790
 RC 116.435 GL 30.07 GP -12.09 ZAL 60.38 ZAP 137.98 ETS 347.39 ZAE 134.86 ETE 191.36 ZAC 102.45 ETC 169.02 CLP-139.44

Distance 510.809

Planetocentric Conic
 C3 14.982 VHL 3.871 OLA 42.24 RAL 23.11 RAD 6567.6 VEL 11.678 PTH 2.05 VMP 3.902 DPA -11.79 RAP 11.31 ECC 1.2466
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.25 21 2 33 4132.21 -30.82 184.72 252.05 59.55 22 11 25 3532.2 -34.60 176.75
 122.75 4 13 59 2807.05 -30.81 83.08 252.05 59.54 5 0 46 2207.1 -34.59 75.12
 57.25 21 2 33 4132.21 -30.82 184.72 252.05 59.55 22 11 25 3532.2 -34.60 176.75
 122.75 4 13 59 2807.05 -30.81 83.08 252.05 59.54 5 0 46 2207.1 -34.59 75.12
 57.25 21 2 33 4132.21 -30.82 184.72 252.05 59.55 22 11 25 3532.2 -34.60 176.75
 122.75 4 13 59 2807.05 -30.81 83.08 252.05 59.54 5 0 46 2207.1 -34.59 75.12

Differential Corrections
 TOE 2.3528 TRA 1.3194 TC3-3.5020 BAU .7026 SGT 5141.9 SGR 763.0 SG3 899.1 ST 3572.5 SR 675.5 SS 2255.5
 RDE .4513 RRA .1676 RC3 -.1987 FAU .10438 RRT .9246 RRF .9125 RTF .9853 CRT .9971 CRS -.9872 CST -.9964
 FDE 4.3055 FRA 3.3876 FC3-6.0315 BSP 16277 SGB 5198.2 R23 -.0038 R13 .9853 LSA 4275.0 MSA 175.1 SSA 10.8
 BDE 2.3957 BRA 1.3300 BC3 3.5077 FSP -3153 SGI 5190.2 SG2 287.9 THA 7.84 EL1 3635.5 EL2 50.3 ALF 10.68

Orbit Determination Accuracy

LAUNCH DATE DEC 25 1968

FLIGHT TIME 186.00

ARRIVAL DATE JUN 29 1969

Heliocentric Conic
 RL 147.13 LAL .00 LOL 93.27 VL 27.644 GAL 4.01 AZL 86.06 MCA 234.73 SMA 127.62 ECC .16770 INC 3.9449 V1 30.281
 RP 108.91 LAP -3.22 LOP 327.94 VP 37.379 GAP 4.72 AZP 92.28 TAL 159.38 TAP 34.12 RCA 106.22 APO 149.03 V2 34.794
 RC 118.823 GL 29.00 GP -11.12 ZAL 59.08 ZAP 140.73 ETS 347.26 ZAE 133.59 ETE 189.76 ZAC 102.74 ETC 168.91 CLP-142.09

Distance 516.855

Planetocentric Conic
 C3 15.313 VHL 3.913 OLA 41.68 RAL 24.93 RAD 6567.6 VEL 11.692 PTH 2.06 VMP 4.064 DPA -10.70 RAP 11.36 ECC 1.2520
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.04 21 13 10 4127.87 -30.28 183.98 253.95 59.87 22 21 58 3527.9 -34.03 176.04
 121.96 4 17 51 2821.19 -30.27 83.95 253.95 59.86 5 4 52 2221.2 -34.02 76.02
 58.04 21 13 10 4127.87 -30.28 183.98 253.95 59.87 22 21 58 3527.9 -34.03 176.04
 121.96 4 17 51 2821.19 -30.27 83.95 253.95 59.86 5 4 52 2221.2 -34.02 76.02
 58.04 21 13 10 4127.87 -30.28 183.98 253.95 59.87 22 21 58 3527.9 -34.03 176.04
 121.96 4 17 51 2821.19 -30.27 83.95 253.95 59.86 5 4 52 2221.2 -34.02 76.02

Differential Corrections
 TOE 2.3919 TRA 1.4668 TC3-3.5573 BAU .7288 SGT 5318.3 SGR 701.3 SG3 834.7 ST 3607.8 SR 631.5 SS 2130.1
 RDE .4270 RRA .1515 RC3 -.1438 FAU .09580 RRT .9001 RRF .8858 RTF .9855 CRT .9949 CRS -.9826 CST -.9963
 FDE 3.9221 FRA 3.3208 FC3-5.4160 BSP 16882 SGB 5364.3 R23 -.0094 R13 .9854 LSA 4233.4 MSA 175.6 SSA 11.3
 BDE 2.4297 BRA 1.4746 BC3 3.5602 FSP -2935 SGI 5355.7 SG2 303.4 THA 6.79 EL1 3662.1 EL2 63.0 ALF 9.88

Orbit Determination Accuracy

LAUNCH DATE DEC 25 1968

FLIGHT TIME 188.00

ARRIVAL DATE JUL 1 1969

Heliocentric Conic
 RL 147.13 LAL .00 LOL 93.27 VL 27.626 GAL 4.23 AZL 86.13 MCA 237.90 SMA 127.51 ECC .17026 INC 3.8664 V1 30.281
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.370 GAP 5.09 AZP 92.06 TAL 158.58 TAP 36.47 RCA 105.80 APO 149.22 V2 34.798
 RC 121.206 GL 27.94 GP -10.26 ZAL 57.76 ZAP 143.28 ETS 347.15 ZAE 132.42 ETE 188.45 ZAC 103.23 ETC 168.85 CLP-144.55

Distance 522.880

Planetocentric Conic
 C3 15.721 VHL 3.965 OLA 41.13 RAL 26.76 RAD 6567.6 VEL 11.709 PTH 2.06 VMP 4.235 DPA -9.63 RAP 11.63 ECC 1.2587
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.83 21 23 52 4124.37 -29.72 183.30 255.95 60.15 22 32 37 3524.4 -33.44 175.40
 121.17 4 21 44 2836.55 -29.71 84.91 255.94 60.14 5 9 0 2236.5 -33.43 77.01
 58.83 21 23 52 4124.37 -29.72 183.30 255.95 60.15 22 32 37 3524.4 -33.44 175.40
 121.17 4 21 44 2836.55 -29.71 84.91 255.94 60.14 5 9 0 2236.5 -33.43 77.01
 58.83 21 23 52 4124.37 -29.72 183.30 255.95 60.15 22 32 37 3524.4 -33.44 175.40
 121.17 4 21 44 2836.55 -29.71 84.91 255.94 60.14 5 9 0 2236.5 -33.43 77.01

Differential Corrections
 TOE 2.4242 TRA 1.6196 TC3-3.5840 BAU .7536 SGT 5477.5 SGR 652.8 SG3 773.9 ST 3625.9 SR 597.0 SS 2010.1
 RDE .4095 RRA .1377 RC3 -.0989 FAU .08777 RRT .8716 RRF .8557 RTF .9856 CRT .9918 CRS -.9770 CST -.9962
 FDE 3.5733 FRA 3.2502 FC3-4.8335 BSP 17459 SGB 5516.2 R23 -.0128 R13 .9855 LSA 4184.9 MSA 176.6 SSA 11.8
 BDE 2.4585 BRA 1.6254 BC3 3.5854 FSP -2732 SGI 5507.0 SG2 318.2 THA 5.95 EL1 3674.0 EL2 75.5 ALF 9.28

Orbit Determination Accuracy

LAUNCH DATE DEC 25 1968

FLIGHT TIME 190.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 528.882

RL 147.13 LAL .00 LOL 93.27 VL 27.608 GAL 4.46 AZL 86.21 MCA 241.06 SMA 127.38 ECC .17303 INC 3.7930 V1 30.281
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.361 GAP 5.46 AZP 91.84 TAL 157.74 TAP 38.80 RCA 105.34 APO 149.42 V2 34.803
 RC 123.581 GL 26.89 GP -9.51 ZAL 56.41 ZAP 145.66 ETS 347.05 ZAE 131.35 ETE 187.37 ZAC 103.91 ETC 168.82 CLP-146.85

PLANETOCENTRIC CONIC

C3 16.210 VHL 4.026 CLA 40.58 RAL 28.59 RAD 6567.6 VEL 11.730 PTH 2.07 VMP 4.416 DPA -8.59 RAP 12.09 ECC 1.2668
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.62 21 34 42 4121.57 -29.13 182.67 258.02 60.39 22 43 24 3521.6 -32.83 174.81
 120.38 4 25 33 2853.25 -29.12 85.95 258.02 60.38 5 13 6 2253.3 -32.82 78.09
 59.62 21 34 42 4121.57 -29.13 182.67 258.02 60.39 22 43 24 3521.6 -32.83 174.81
 120.38 4 25 33 2853.25 -29.12 85.95 258.02 60.38 5 13 6 2253.3 -32.82 78.09
 59.62 21 34 42 4121.57 -29.13 182.67 258.02 60.39 22 43 24 3521.6 -32.83 174.81
 120.38 4 25 33 2853.25 -29.12 85.95 258.02 60.38 5 13 6 2253.3 -32.82 78.09

DIFFERENTIAL CORRECTIONS

TDE 2.4552 TRA 1.7837 TC3-3.5738 BAU .7746
 RDE .3982 RRA .1266 RC3 -.0615 FAU .07991
 FDE 3.2667 FRA 3.1889 FC3-4.2681 BSP 17910
 BOE 2.4873 BRA 1.7881 BC3 3.5744 FSP -2527.

MID-COURSE EXECUTION ACCURACY

SGT 5626.8 SGR 616.3 SG3 718.4
 RRT .8407 RRF .8239 RTF .9855
 SGB 5660.4 R23 -.0138 R13 .9854
 SG1 5650.7 SG2 332.4 THA 5.28

ORBIT DETERMINATION ACCURACY

ST 3636.1 SR 571.2 SS 1901.5
 CRT .9879 CRS -.9704 CST -.9961
 LSA 4139.0 MSA 178.3 SSA 12.3
 EL1 3679.6 EL2 87.7 ALF 8.83

LAUNCH DATE DEC 25 1968

FLIGHT TIME 192.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 534.861

RL 147.13 LAL .00 LOL 93.27 VL 27.589 GAL 4.72 AZL 86.28 MCA 244.22 SMA 127.26 ECC .17603 INC 3.7240 V1 30.281
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.352 GAP 5.83 AZP 91.62 TAL 156.87 TAP 41.09 RCA 104.85 APO 149.66 V2 34.808
 RC 125.948 GL 25.84 GP -8.85 ZAL 55.04 ZAP 147.89 ETS 346.94 ZAE 130.38 ETE 186.48 ZAC 104.73 ETC 168.82 CLP-149.00

PLANETOCENTRIC CONIC

C3 16.784 VHL 4.097 CLA 40.04 RAL 30.44 RAD 6567.7 VEL 11.754 PTH 2.07 VMP 4.606 DPA -7.57 RAP 12.73 ECC 1.2762
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.42 21 45 40 4119.37 -28.51 182.08 260.18 60.61 22 54 19 3519.4 -32.19 174.26
 119.58 4 29 17 2871.38 -28.50 87.10 260.17 60.59 5 17 8 2271.4 -32.18 79.28
 60.42 21 45 40 4119.37 -28.51 182.08 260.18 60.61 22 54 19 3519.4 -32.19 174.26
 119.58 4 29 17 2871.38 -28.50 87.10 260.17 60.59 5 17 8 2271.4 -32.18 79.28
 60.42 21 45 40 4119.37 -28.51 182.08 260.18 60.61 22 54 19 3519.4 -32.19 174.26
 119.58 4 29 17 2871.38 -28.50 87.10 260.17 60.59 5 17 8 2271.4 -32.18 79.28

DIFFERENTIAL CORRECTIONS

TDE 2.4776 TRA 1.9518 TC3-3.5459 BAU .7957
 RDE .3911 RRA .1171 RC3 -.0331 FAU .07296
 FDE 2.9830 FRA 3.1222 FC3-3.7633 BSP 18406
 BOE 2.5083 BRA 1.9553 BC3 3.5460 FSP -2353

MID-COURSE EXECUTION ACCURACY

SGT 5758.5 SGR 588.0 SG3 666.1
 RRT .8083 RRF .7910 RTF .9854
 SGB 5788.4 R23 -.0143 R13 .9854
 SG1 5778.1 SG2 345.0 THA 4.74

ORBIT DETERMINATION ACCURACY

ST 3627.4 SR 550.8 SS 1794.8
 CRT .9831 CRS -.9629 CST -.9960
 LSA 4080.5 MSA 180.6 SSA 12.7
 EL1 3667.6 EL2 99.7 ALF 8.50

LAUNCH DATE DEC 25 1968

FLIGHT TIME 194.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 540.813

RL 147.13 LAL .00 LOL 93.27 VL 27.569 GAL 4.99 AZL 86.34 MCA 247.39 SMA 127.12 ECC .17929 INC 3.6586 V1 30.281
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.343 GAP 6.22 AZP 91.41 TAL 155.98 TAP 43.37 RCA 104.33 APO 149.91 V2 34.815
 RC 128.306 GL 24.81 GP -8.26 ZAL 53.64 ZAP 149.97 ETS 346.81 ZAE 129.49 ETE 185.73 ZAC 105.71 ETC 168.83 CLP-151.03

PLANETOCENTRIC CONIC

C3 17.450 VHL 4.177 CLA 39.49 RAL 32.28 RAD 6567.7 VEL 11.783 PTH 2.08 VMP 4.805 DPA -6.57 RAP 13.51 ECC 1.2872
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.23 21 56 47 4117.70 -27.86 181.53 262.40 60.79 23 5 24 3517.7 -31.52 173.75
 118.77 4 32 52 2891.02 -27.85 88.34 262.39 60.78 5 21 3 2291.0 -31.51 80.57
 61.23 21 56 47 4117.70 -27.86 181.53 262.40 60.79 23 5 24 3517.7 -31.52 173.75
 118.77 4 32 52 2891.02 -27.85 88.34 262.39 60.78 5 21 3 2291.0 -31.51 80.57
 61.23 21 56 47 4117.70 -27.86 181.53 262.40 60.79 23 5 24 3517.7 -31.52 173.75
 118.77 4 32 52 2891.02 -27.85 88.34 262.39 60.78 5 21 3 2291.0 -31.51 80.57

DIFFERENTIAL CORRECTIONS

TDE 2.4956 TRA 2.1290 TC3-3.4945 BAU .8153
 RDE .3880 RRA .1097 RC3 -.0112 FAU .06652
 FDE 2.7276 FRA 3.0595 FC3-3.3002 BSP 18870
 BOE 2.5256 BRA 2.1318 BC3 3.4945 FSP -2191

MID-COURSE EXECUTION ACCURACY

SGT 5878.7 SGR 566.9 SG3 618.0
 RRT .7762 RRF .7588 RTF .9853
 SGB 5905.9 R23 -.0140 R13 .9852
 SG1 5895.2 SG2 356.4 THA 4.30

ORBIT DETERMINATION ACCURACY

ST 3607.4 SR 535.4 SS 1694.7
 CRT .9776 CRS -.9546 CST -.9959
 LSA 4017.2 MSA 183.7 SSA 13.0
 EL1 3645.2 EL2 111.5 ALF 8.26

LAUNCH DATE DEC 25 1968

FLIGHT TIME 196.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 546.740

RL 147.13 LAL .00 LOL 93.27 VL 27.549 GAL 5.28 AZL 86.40 MCA 250.56 SMA 126.99 ECC .18280 INC 3.5961 V1 30.281
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.335 GAP 6.61 AZP 91.20 TAL 155.06 TAP 45.61 RCA 103.77 APO 150.20 V2 34.821
 RC 130.653 GL 23.77 GP -7.74 ZAL 52.24 ZAP 151.94 ETS 346.65 ZAE 128.69 ETE 185.10 ZAC 106.81 ETC 168.84 CLP-152.94

PLANETOCENTRIC CONIC

C3 18.217 VHL 4.268 CLA 38.94 RAL 34.11 RAD 6567.7 VEL 11.815 PTH 2.09 VMP 5.013 DPA -5.58 RAP 14.43 ECC 1.2998
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.07 22 8 2 4116.47 -27.18 181.00 264.69 60.96 23 16 39 3516.5 -30.82 173.27
 117.93 4 36 15 2912.27 -27.16 89.69 264.68 60.95 5 24 47 2312.3 -30.81 81.96
 62.07 22 8 2 4116.47 -27.18 181.00 264.69 60.96 23 16 39 3516.5 -30.82 173.27
 117.93 4 36 15 2912.27 -27.16 89.69 264.68 60.95 5 24 47 2312.3 -30.81 81.96
 62.07 22 8 2 4116.47 -27.18 181.00 264.69 60.96 23 16 39 3516.5 -30.82 173.27
 117.93 4 36 15 2912.27 -27.16 89.69 264.68 60.95 5 24 47 2312.3 -30.81 81.96

DIFFERENTIAL CORRECTIONS

TDE 2.5103 TRA 2.3161 TC3-3.4198 BAU .8329
 RDE .3883 RRA .1042 RC3 -.0053 FAU .06052
 FDE 2.4982 FRA 3.0013 FC3-2.8761 BSP 19289
 BOE 2.5402 BRA 2.3184 BC3 3.4198 FSP -2041

MID-COURSE EXECUTION ACCURACY

SGT 5988.1 SGR 551.4 SG3 573.8
 RRT .7458 RRF .7288 RTF .9851
 SGB 6013.4 R23 -.0129 R13 .9850
 SG1 6002.3 SG2 366.5 THA 3.94

ORBIT DETERMINATION ACCURACY

ST 3577.9 SR 524.0 SS 1601.2
 CRT .9713 CRS -.9456 CST -.9958
 LSA 3950.3 MSA 187.4 SSA 13.2
 EL1 3614.0 EL2 123.3 ALF 8.11

LAUNCH DATE DEC 25 1968

FLIGHT TIME 198.00

ARRIVAL DATE JUL 11 1969

DISTANCE 552.638

HELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 27.528 GAL 5.59 AZL 86.46 MCA 253.72 SMA 126.85 ECC .18659 INC 3.5360 V1 30.281
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.326 GAP 7.01 AZP 90.99 TAL 154.12 TAP 47.84 RCA 103.18 APO 150.51 V2 34.829
 RC 132.989 GL 22.75 GP -7.28 ZAL 50.82 ZAP 153.79 ETS 346.46 ZAE 127.96 ETE 184.58 ZAC 108.02 ETC 168.85 CLP-154.76

PLANETOCENTRIC CONIC
 C3 19.094 VHL 4.370 CLA 38.39 RAL 35.94 RAD 6567.8 VEL 11.852 PTH 2.10 VHP 5.231 DPA -4.60 RAP 15.47 ECC 1.3142
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.92 22 19 27 4115.65 -26.46 180.48 267.03 61.11 23 28 3 3515.6 -30.10 172.81
 117.08 4 39 24 2935.19 -26.45 91.15 267.02 61.10 5 28 20 2335.2 -30.09 83.47
 62.92 22 19 27 4115.65 -26.46 180.48 267.03 61.11 23 28 3 3515.6 -30.10 172.81
 117.08 4 39 24 2935.19 -26.45 91.15 267.02 61.10 5 28 20 2335.2 -30.09 83.47
 62.92 22 19 27 4115.65 -26.46 180.48 267.03 61.11 23 28 3 3515.6 -30.10 172.81
 117.08 4 39 24 2935.19 -26.45 91.15 267.02 61.10 5 28 20 2335.2 -30.09 83.47

MID-COURSE EXECUTION ACCURACY
 SGT 6087.3 SGR 540.2 SG3 533.2
 RRT .7180 RRF .7018 RTF .9848
 SGB 6111.2 R23 -.0115 R13 .9848
 SG1 6099.7 SG2 375.2 THA 3.66

ORBIT DETERMINATION ACCURACY
 ST 3540.1 SR 515.6 SS 1513.9
 CRT .9644 CRS -.9360 CST -.9957
 LSA 3879.8 MSA 191.8 SSA 13.4
 EL1 3574.9 EL2 134.9 ALF 8.01

DIFFERENTIAL CORRECTIONS
 TDE 2.5218 TRA 2.5134 TC3-3.3249 BAU .8488
 RDE .3913 RRA .1007 RC3 .0172 FAU .05496
 FDE 2.2916 FRA 2.9472 FC3-2.4917 BSP 19673
 BDE 2.5520 BRA 2.5154 BC3 3.3249 FSP -1901

LAUNCH DATE DEC 25 1968

FLIGHT TIME 200.00

ARRIVAL DATE JUL 13 1969

DISTANCE 558.505

HELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 27.507 GAL 5.92 AZL 86.52 MCA 256.89 SMA 126.70 ECC .19068 INC 3.4777 V1 30.281
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.318 GAP 7.42 AZP 90.79 TAL 153.16 TAP 50.05 RCA 102.54 APO 150.86 V2 34.837
 RC 135.313 GL 21.73 GP -6.86 ZAL 49.40 ZAP 155.55 ETS 346.22 ZAE 127.30 ETE 184.13 ZAC 109.33 ETC 168.87 CLP-156.48

PLANETOCENTRIC CONIC
 C3 20.093 VHL 4.483 CLA 37.83 RAL 37.75 RAD 6567.8 VEL 11.894 PTH 2.11 VHP 5.459 DPA -3.63 RAP 16.61 ECC 1.3307
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.80 22 31 2 4115.08 -25.71 179.98 269.43 61.25 23 39 38 3515.1 -29.34 172.35
 116.20 4 42 16 2959.94 -25.70 92.73 269.42 61.24 5 31 36 2359.9 -29.33 85.10
 63.80 22 31 2 4115.08 -25.71 179.98 269.43 61.25 23 39 38 3515.1 -29.34 172.35
 116.20 4 42 16 2959.94 -25.70 92.73 269.42 61.24 5 31 36 2359.9 -29.33 85.10
 63.80 22 31 2 4115.08 -25.71 179.98 269.43 61.25 23 39 38 3515.1 -29.34 172.35
 116.20 4 42 16 2959.94 -25.70 92.73 269.42 61.24 5 31 36 2359.9 -29.33 85.10

MID-COURSE EXECUTION ACCURACY
 SGT 6180.7 SGR 532.6 SG3 496.3
 RRT .6941 RRF .6791 RTF .9845
 SGB 6203.6 R23 -.0095 R13 .9845
 SG1 6191.8 SG2 382.7 THA 3.44

ORBIT DETERMINATION ACCURACY
 ST 3499.5 SR 509.6 SS 1434.9
 CRT .9570 CRS -.9259 CST -.9956
 LSA 3811.3 MSA 196.7 SSA 13.5
 EL1 3533.4 EL2 146.4 ALF 7.95

DIFFERENTIAL CORRECTIONS
 TDE 2.5337 TRA 2.7257 TC3-3.2054 BAU .8611
 RDE .3969 RRA .0992 RC3 .0257 FAU .04960
 FDE 2.1093 FRA 2.9018 FC3-2.1371 BSP 19946
 BDE 2.5646 BRA 2.7275 BC3 3.2055 FSP -1763

LAUNCH DATE DEC 25 1968

FLIGHT TIME 202.00

ARRIVAL DATE JUL 15 1969

DISTANCE 564.339

HELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 27.485 GAL 6.28 AZL 86.58 MCA 260.06 SMA 126.56 ECC .19509 INC 3.4209 V1 30.281
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.310 GAP 7.85 AZP 90.59 TAL 152.19 TAP 52.25 RCA 101.87 APO 151.25 V2 34.846
 RC 137.625 GL 20.72 GP -6.49 ZAL 47.97 ZAP 157.22 ETS 345.93 ZAE 126.69 ETE 183.76 ZAC 110.73 ETC 168.87 CLP-158.12

PLANETOCENTRIC CONIC
 C3 21.228 VHL 4.607 CLA 37.26 RAL 39.54 RAD 6567.9 VEL 11.942 PTH 2.13 VHP 5.697 DPA -2.67 RAP 17.84 ECC 1.3494
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.71 22 42 49 4114.69 -24.93 179.48 271.87 61.37 23 51 24 3514.7 -28.55 171.90
 115.29 4 44 45 2986.63 -24.92 94.43 271.87 61.36 5 34 32 2386.6 -28.54 86.86
 64.71 22 42 49 4114.69 -24.93 179.48 271.87 61.37 23 51 24 3514.7 -28.55 171.90
 115.29 4 44 45 2986.63 -24.92 94.43 271.87 61.36 5 34 32 2386.6 -28.54 86.86
 64.71 22 42 49 4114.69 -24.93 179.48 271.87 61.37 23 51 24 3514.7 -28.55 171.90
 115.29 4 44 45 2986.63 -24.92 94.43 271.87 61.36 5 34 32 2386.6 -28.54 86.86

MID-COURSE EXECUTION ACCURACY
 SGT 6261.2 SGR 526.7 SG3 461.9
 RRT .6735 RRF .6596 RTF .9842
 SGB 6283.4 R23 -.0078 R13 .9842
 SG1 6271.3 SG2 388.7 THA 3.26

ORBIT DETERMINATION ACCURACY
 ST 3447.3 SR 504.8 SS 1358.5
 CRT .9489 CRS -.9153 CST -.9955
 LSA 3734.0 MSA 202.2 SSA 13.6
 EL1 3480.4 EL2 157.7 ALF 7.93

DIFFERENTIAL CORRECTIONS
 TDE 2.5391 TRA 2.9459 TC3-3.0790 BAU .8739
 RDE .4042 RRA .0993 RC3 .0304 FAU .04489
 FDE 1.9404 FRA 2.8559 FC3-1.8307 BSP 20284
 BDE 2.5711 BRA 2.9475 BC3 3.0791 FSP -1646

LAUNCH DATE DEC 25 1968

FLIGHT TIME 204.00

ARRIVAL DATE JUL 17 1969

DISTANCE 570.136

HELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 27.463 GAL 6.66 AZL 86.63 MCA 263.24 SMA 126.41 ECC .19986 INC 3.3652 V1 30.281
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.302 GAP 8.29 AZP 90.40 TAL 151.20 TAP 54.44 RCA 101.15 APO 151.68 V2 34.855
 RC 139.923 GL 19.72 GP -6.16 ZAL 46.55 ZAP 158.81 ETS 345.57 ZAE 126.15 ETE 183.44 ZAC 112.21 ETC 168.86 CLP-159.69

PLANETOCENTRIC CONIC
 C3 22.516 VHL 4.745 CLA 36.68 RAL 41.30 RAD 6567.9 VEL 11.996 PTH 2.14 VHP 5.947 DPA -1.71 RAP 19.16 ECC 1.3706
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.64 22 54 45 4114.51 -24.12 178.97 274.36 61.49 24 3 19 3514.5 -27.73 171.45
 114.36 4 46 54 3015.27 -24.11 96.27 274.36 61.48 5 37 9 2415.3 -27.72 88.75
 65.64 22 54 45 4114.51 -24.12 178.97 274.36 61.49 24 3 19 3514.5 -27.73 171.45
 114.36 4 46 54 3015.27 -24.11 96.27 274.36 61.48 5 37 9 2415.3 -27.72 88.75
 65.64 22 54 45 4114.51 -24.12 178.97 274.36 61.49 24 3 19 3514.5 -27.73 171.45
 114.36 4 46 54 3015.27 -24.11 96.27 274.36 61.48 5 37 9 2415.3 -27.72 88.75

MID-COURSE EXECUTION ACCURACY
 SGT 6333.4 SGR 522.4 SG3 430.3
 RRT .6567 RRF .6441 RTF .9839
 SGB 6355.0 R23 -.0060 R13 .9839
 SG1 6342.8 SG2 393.4 THA 3.11

ORBIT DETERMINATION ACCURACY
 ST 3390.1 SR 500.9 SS 1287.6
 CRT .9403 CRS -.9042 CST -.9955
 LSA 3654.9 MSA 208.1 SSA 13.5
 EL1 3422.7 EL2 168.8 ALF 7.93

DIFFERENTIAL CORRECTIONS
 TDE 2.5423 TRA 3.1792 TC3-2.9386 BAU .8846
 RDE .4131 RRA .1011 RC3 .0327 FAU .04050
 FDE 1.7879 FRA 2.8146 FC3-1.5574 BSP 20595
 BDE 2.5756 BRA 3.1808 BC3 2.9388 FSP -1538

LAUNCH DATE DEC 25 1968

FLIGHT TIME 206.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 575.893

RL 147.13 LAL .00 LOL 93.27 VL 27.440 GAL 7.06 AZL 86.69 HCA 266.41 SMA 126.26 ECC .20500 INC 3.3102 V1 30.281
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.295 GAP 8.74 AZP 90.21 TAL 150.20 TAP 56.61 RCA 100.38 APO 152.15 V2 34.865
 RC 142.207 GL 18.73 GP -5.86 ZAL 45.14 ZAP 160.33 ETS 345.13 ZAE 125.64 ETE 183.17 ZAC 113.76 ETC 168.84 CLP-161.19

PLANETOCENTRIC CONIC

C3 23.975 VHL 4.896 DLA 36.10 RAL 43.03 RAD 6568.0 VEL 12.056 PTH 2.15 VHP 6.210 DPA -.76 RAP 20.56 ECC 1.3946
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.62 23 6 54 4114.26 -23.28 178.46 276.89 61.60 24 15 28 3514.3 -26.88 170.98
 113.38 4 48 33 3046.16 -23.26 98.25 276.88 61.59 5 30 19 2446.2 -26.87 90.78
 66.62 23 6 54 4114.26 -23.28 178.46 276.89 61.60 24 15 28 3514.3 -26.88 170.98
 113.38 4 48 33 3046.16 -23.26 98.25 276.88 61.59 5 30 19 2446.2 -26.87 90.78
 66.62 23 6 54 4114.26 -23.28 178.46 276.89 61.60 24 15 28 3514.3 -26.88 170.98
 113.38 4 48 33 3046.16 -23.26 98.25 276.88 61.59 5 30 19 2446.2 -26.87 90.78

DIFFERENTIAL CORRECTIONS

TDE 2.5439 TRA 3.4265 TC3-2.7873 BAU .8935
 RDE .4235 RRA .1047 RC3 .0331 FAU .03643
 FDE 1.6507 FRA 2.7779 FC3-1.3155 BSP 20876
 BDE 2.5789 BRA 3.4281 BC3 2.7875 FSP -1438

MID-COURSE EXECUTION ACCURACY

SGT 6398.0 SGR 519.2 SG3 401.3
 RRT .6438 RRF .6324 RTF .9835
 SGB 6419.0 R23 -.0042 R13 .9835
 SG1 6406.8 SG2 396.7 THA 3.00

ORBIT DETERMINATION ACCURACY

ST 3329.2 SR 497.6 SS 1222.3
 CRT .9312 CRS -.8928 CST -.9955
 LSA 3574.8 MSA 214.2 SSA 13.5
 EL1 3361.4 EL2 179.6 ALF 7.95

LAUNCH DATE DEC 25 1968

FLIGHT TIME 208.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 581.606

RL 147.13 LAL .00 LOL 93.27 VL 27.417 GAL 7.50 AZL 86.74 HCA 269.59 SMA 126.11 ECC .21056 INC 3.2555 V1 30.281
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.287 GAP 9.22 AZP 90.02 TAL 149.20 TAP 58.79 RCA 99.56 APO 152.67 V2 34.875
 RC 144.478 GL 17.75 GP -5.59 ZAL 43.75 ZAP 161.79 ETS 344.59 ZAE 125.18 ETE 182.95 ZAC 115.37 ETC 168.80 CLP-162.65

PLANETOCENTRIC CONIC

C3 25.629 VHL 5.063 DLA 35.51 RAL 44.73 RAD 6568.0 VEL 12.125 PTH 2.17 VHP 6.487 DPA .18 RAP 22.02 ECC 1.4218
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.63 23 19 14 4114.04 -22.40 177.93 279.45 61.70 24 27 48 3514.0 -26.00 170.51
 112.37 4 49 45 3079.20 -22.39 100.37 279.44 61.69 5 41 4 2479.2 -25.99 92.96
 67.63 23 19 14 4114.04 -22.40 177.93 279.45 61.70 24 27 48 3514.0 -26.00 170.51
 112.37 4 49 45 3079.20 -22.39 100.37 279.44 61.69 5 41 4 2479.2 -25.99 92.96
 67.63 23 19 14 4114.04 -22.40 177.93 279.45 61.70 24 27 48 3514.0 -26.00 170.51
 112.37 4 49 45 3079.20 -22.39 100.37 279.44 61.69 5 41 4 2479.2 -25.99 92.96

DIFFERENTIAL CORRECTIONS

TDE 2.5480 TRA 3.6930 TC3-2.6212 BAU .8982
 RDE .4352 RRA .1103 RC3 .0325 FAU .03249
 FDE 1.5298 FRA 2.7487 FC3-1.0973 BSP 21040
 BDE 2.5849 BRA 3.6946 BC3 2.6214 FSP -1337

MID-COURSE EXECUTION ACCURACY

SGT 6459.1 SGR 516.9 SG3 375.0
 RRT .6350 RRF .6250 RTF .9832
 SGB 6479.8 R23 -.0023 R13 .9832
 SG1 6467.5 SG2 398.8 THA 2.92

ORBIT DETERMINATION ACCURACY

ST 3270.3 SR 494.7 SS 1164.0
 CRT .9217 CRS -.8813 CST -.9955
 LSA 3499.4 MSA 220.4 SSA 13.4
 EL1 3302.0 EL2 180.0 ALF 7.96

LAUNCH DATE DEC 25 1968

FLIGHT TIME 210.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 587.268

RL 147.13 LAL .00 LOL 93.27 VL 27.394 GAL 7.96 AZL 86.80 HCA 272.77 SMA 125.96 ECC .21658 INC 3.2008 V1 30.281
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.280 GAP 9.72 AZP 89.85 TAL 148.19 TAP 60.96 RCA 98.68 APO 153.24 V2 34.885
 RC 146.734 GL 16.79 GP -5.35 ZAL 42.37 ZAP 163.20 ETS 343.93 ZAE 124.76 ETE 182.75 ZAC 117.03 ETC 168.74 CLP-164.05

PLANETOCENTRIC CONIC

C3 27.505 VHL 5.245 DLA 34.91 RAL 46.38 RAD 6568.1 VEL 12.202 PTH 2.19 VHP 6.779 DPA 1.11 RAP 23.53 ECC 1.4527
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.67 23 31 49 4113.58 -21.50 177.36 282.04 61.81 24 40 22 3513.6 -25.09 170.00
 111.33 4 50 22 3114.70 -21.48 102.66 282.03 61.80 5 42 17 2514.7 -25.08 95.29
 68.67 23 31 49 4113.58 -21.50 177.36 282.04 61.81 24 40 22 3513.6 -25.09 170.00
 111.33 4 50 22 3114.70 -21.48 102.66 282.03 61.80 5 42 17 2514.7 -25.08 95.29
 68.67 23 31 49 4113.58 -21.50 177.36 282.04 61.81 24 40 22 3513.6 -25.09 170.00
 111.33 4 50 22 3114.70 -21.48 102.66 282.03 61.80 5 42 17 2514.7 -25.08 95.29

DIFFERENTIAL CORRECTIONS

TDE 2.5466 TRA 3.9714 TC3-2.4555 BAU .9030
 RDE .4477 RRA .1174 RC3 .0304 FAU .02900
 FDE 1.4171 FRA 2.7202 FC3 -.9128 BSP 21285
 BDE 2.5856 BRA 3.9731 BC3 2.4557 FSP -1253

MID-COURSE EXECUTION ACCURACY

SGT 6508.8 SGR 514.5 SG3 350.4
 RRT .6289 RRF .6199 RTF .9830
 SGB 6529.1 R23 -.0008 R13 .9830
 SG1 6516.9 SG2 399.5 THA 2.86

ORBIT DETERMINATION ACCURACY

ST 3204.0 SR 491.3 SS 1108.1
 CRT .9116 CRS -.8694 CST -.9955
 LSA 3418.1 MSA 226.7 SSA 13.2
 EL1 3235.2 EL2 200.0 ALF 7.99

LAUNCH DATE DEC 25 1968

FLIGHT TIME 212.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 592.874

RL 147.13 LAL .00 LOL 93.27 VL 27.370 GAL 8.46 AZL 86.85 HCA 275.95 SMA 125.81 ECC .22309 INC 3.1458 V1 30.281
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.273 GAP 10.25 AZP 89.67 TAL 147.18 TAP 63.13 RCA 97.74 APO 153.87 V2 34.897
 RC 148.977 GL 15.84 GP -5.13 ZAL 41.02 ZAP 164.56 ETS 343.12 ZAE 124.36 ETE 182.59 ZAC 118.74 ETC 168.65 CLP-165.42

PLANETOCENTRIC CONIC

C3 29.635 VHL 5.444 DLA 34.31 RAL 48.00 RAD 6568.2 VEL 12.289 PTH 2.21 VHP 7.088 DPA 2.04 RAP 25.10 ECC 1.4877
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.77 23 44 40 4112.75 -20.56 176.77 284.66 61.91 24 53 13 3512.8 -24.15 169.45
 110.23 4 50 23 3152.78 -20.55 105.11 284.65 61.90 5 42 56 2552.8 -24.14 97.80
 69.77 23 44 40 4112.75 -20.56 176.77 284.66 61.91 24 53 13 3512.8 -24.15 169.45
 110.23 4 50 23 3152.78 -20.55 105.11 284.65 61.90 5 42 56 2552.8 -24.14 97.80
 69.77 23 44 40 4112.75 -20.56 176.77 284.66 61.91 24 53 13 3512.8 -24.15 169.45
 110.23 4 50 23 3152.78 -20.55 105.11 284.65 61.90 5 42 56 2552.8 -24.14 97.80

DIFFERENTIAL CORRECTIONS

TDE 2.5448 TRA 4.2676 TC3-2.2842 BAU .9051
 RDE .4610 RRA .1263 RC3 .0277 FAU .02572
 FDE 1.3154 FRA 2.6961 FC3 -.7515 BSP 21507
 BDE 2.5862 BRA 4.2694 BC3 2.2844 FSP -1174

MID-COURSE EXECUTION ACCURACY

SGT 6551.8 SGR 512.0 SG3 327.7
 RRT .6257 RRF .6177 RTF .9827
 SGB 6571.8 R23 -.0006 R13 .9828
 SG1 6559.7 SG2 398.9 THA 2.81

ORBIT DETERMINATION ACCURACY

ST 3136.9 SR 487.5 SS 1057.1
 CRT .9011 CRS -.8572 CST -.9956
 LSA 3337.8 MSA 232.8 SSA 13.0
 EL1 3167.7 EL2 209.4 ALF 8.01

LAUNCH DATE DEC 25 1968

FLIGHT TIME 214.00

ARRIVAL DATE JUL 27 1969

MELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 27.347 GAL 9.00 AZL 86.91 MCA 279.13 SMA 125.65 ECC .23016 INC 3.0901 V1 30.281
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.267 GAP 10.80 AZP 89.51 TAL 146.18 TAP 65.31 RCA 96.73 APO 154.57 V2 34.908
 RC 151.204 GL 14.90 GP -4.92 ZAL 39.69 ZAP 165.88 ETS 342.13 ZAE 123.99 ETE 182.46 ZAC 120.49 ETC 168.55 CLP-166.75

PLANETOCENTRIC CONIC
 C3 32.058 VHL 5.662 DLA 33.70 RAL 49.56 RAD 6568.3 VEL 12.387 PTH 2.24 VHP 7.416 DPA 2.95 RAP 26.72 ECC 1.5276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.91 0 1 45 4111.35 -19.60 176.11 287.30 62.02 1 10 17 3511.3 -23.19 168.85
 109.09 4 49 42 3193.66 -19.59 107.76 287.29 62.01 5 42 56 2593.7 -23.18 100.49
 70.91 0 1 45 4111.35 -19.60 176.11 287.30 62.02 1 10 17 3511.3 -23.19 168.85
 109.09 4 49 42 3193.66 -19.59 107.76 287.29 62.01 5 42 56 2593.7 -23.18 100.49
 110.00 5 38 43 3043.77 -23.93 98.43 289.63 64.83 6 29 27 2443.8 -27.12 90.71
 110.00 4 11 54 3309.23 -15.37 114.25 284.80 59.09 5 7 4 2709.2 -19.36 107.40

MID-COURSE EXECUTION ACCURACY
 SGT 6588.2 SGR 509.4 SG3 306.9
 RRT .6252 RRF .6180 RTF .9826
 SGB 6607.9 R23 .0018 R13 .9826
 SGI 6595.9 SG2 397.1 TMA 2.78

ORBIT DETERMINATION ACCURACY
 ST 3069.7 SR 483.2 SS 1010.6
 CRT .8901 CRS -.8449 CST -.9958
 LSA 3258.9 MSA 238.7 SSA 12.8
 EL1 3099.8 EL2 218.1 ALF 8.01

DIFFERENTIAL CORRECTIONS
 TDE 2.5427 TRA 4.5829 TC3-2.1100 BAU .9044
 RDE .4749 RRA .1370 RC3 .0247 FAU .02266
 FDE 1.2236 FRA 2.6766 FC3 -.6119 BSP 21701
 BOE 2.5867 BRA 4.5850 BC3 2.1101 FSP -1101

LAUNCH DATE DEC 25 1968

FLIGHT TIME 216.00

ARRIVAL DATE JUL 29 1969

MELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 27.323 GAL 9.58 AZL 86.97 MCA 282.31 SMA 125.50 ECC .23784 INC 3.0334 V1 30.281
 RP 108.52 LAP -2.96 LOP 15.60 VP 37.261 GAP 11.39 AZP 89.35 TAL 145.19 TAP 67.50 RCA 95.65 APO 155.35 V2 34.920
 RC 153.416 GL 13.98 GP -4.74 ZAL 38.39 ZAP 167.16 ETS 340.91 ZAE 123.63 ETE 182.34 ZAC 122.27 ETC 168.41 CLP-168.05

PLANETOCENTRIC CONIC
 C3 34.819 VHL 5.901 DLA 33.09 RAL 51.07 RAD 6568.4 VEL 12.498 PTH 2.26 VHP 7.765 DPA 3.85 RAP 28.38 ECC 1.5730
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.12 0 15 18 4109.09 -18.62 175.39 289.96 62.14 1 23 47 3509.1 -22.20 168.17
 107.88 4 48 13 3237.58 -18.61 110.60 289.95 62.13 5 42 11 2637.6 -22.19 103.38
 72.12 0 15 18 4109.09 -18.62 175.39 289.96 62.14 1 23 47 3509.1 -22.20 168.17
 107.88 4 48 13 3237.58 -18.61 110.60 289.95 62.13 5 42 11 2637.6 -22.19 103.38
 110.00 6 6 35 2996.92 -25.26 95.44 293.42 66.16 6 56 32 2396.9 -28.26 87.54
 110.00 3 56 7 3397.75 -12.22 119.17 286.13 57.82 4 52 45 2797.8 -16.38 112.53

MID-COURSE EXECUTION ACCURACY
 SGT 6619.0 SGR 506.4 SG3 287.6
 RRT .6272 RRF .6206 RTF .9825
 SGB 6638.3 R23 .0028 R13 .9825
 SGI 6626.6 SG2 394.0 TMA 2.76

ORBIT DETERMINATION ACCURACY
 ST 3003.3 SR 478.0 SS 968.7
 CRT .8787 CRS -.8326 CST -.9959
 LSA 3182.3 MSA 244.0 SSA 12.6
 EL1 3032.7 EL2 226.0 ALF 8.01

DIFFERENTIAL CORRECTIONS
 TDE 2.5414 TRA 4.9196 TC3-1.9344 BAU .9005
 RDE .4894 RRA .1495 RC3 .0217 FAU .01978
 FDE 1.1411 FRA 2.6620 FC3 -.4919 BSP 21873
 BOE 2.5881 BRA 4.9219 BC3 1.9346 FSP -1032

LAUNCH DATE DEC 25 1968

FLIGHT TIME 218.00

ARRIVAL DATE JUL 31 1969

MELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 27.299 GAL 10.20 AZL 87.02 MCA 285.50 SMA 125.34 ECC .24620 INC 2.9753 V1 30.281
 RP 108.48 LAP -2.87 LOP 18.79 VP 37.255 GAP 12.01 AZP 89.20 TAL 144.21 TAP 69.71 RCA 94.49 APO 156.20 V2 34.932
 RC 155.612 GL 13.08 GP -4.58 ZAL 37.13 ZAP 168.40 ETS 339.37 ZAE 123.29 ETE 182.25 ZAC 124.07 ETC 168.24 CLP-169.33

PLANETOCENTRIC CONIC
 C3 37.975 VHL 6.162 DLA 32.48 RAL 52.53 RAD 6568.5 VEL 12.623 PTH 2.29 VHP 8.138 DPA 4.74 RAP 30.07 ECC 1.6250
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.39 0 29 19 4105.63 -17.61 174.56 292.63 62.26 1 37 45 3505.6 -21.19 167.39
 106.61 4 45 50 3284.89 -17.60 113.67 292.63 62.25 5 40 35 2684.9 -21.17 106.50
 73.39 0 29 19 4105.63 -17.61 174.56 292.63 62.26 1 37 45 3505.6 -21.19 167.39
 106.61 4 45 50 3284.89 -17.60 113.67 292.63 62.25 5 40 35 2684.9 -21.17 106.50
 110.00 6 28 33 2968.06 -26.04 93.56 296.93 67.03 7 18 1 2368.1 -28.91 85.56
 110.00 3 45 47 3470.45 -9.55 123.11 287.78 57.02 4 43 38 2870.5 -13.83 116.62

MID-COURSE EXECUTION ACCURACY
 SGT 6647.0 SGR 503.2 SG3 270.1
 RRT .6315 RRF .6256 RTF .9825
 SGB 6666.0 R23 .0038 R13 .9825
 SGI 6654.6 SG2 389.7 TMA 2.75

ORBIT DETERMINATION ACCURACY
 ST 2941.5 SR 472.1 SS 932.3
 CRT .8672 CRS -.8206 CST -.9961
 LSA 3111.7 MSA 248.6 SSA 12.3
 EL1 2970.0 EL2 232.9 ALF 7.97

DIFFERENTIAL CORRECTIONS
 TDE 2.5445 TRA 5.2832 TC3-1.7552 BAU .8911
 RDE .5044 RRA .1641 RC3 .0189 FAU .01696
 FDE 1.0689 FRA 2.6540 FC3 -.3867 BSP 21938
 BOE 2.5940 BRA 5.2857 BC3 1.7553 FSP -964

LAUNCH DATE DEC 25 1968

FLIGHT TIME 220.00

ARRIVAL DATE AUG 2 1969

MELIOCENTRIC CONIC
 RL 147.13 LAL .00 LOL 93.27 VL 27.276 GAL 10.87 AZL 87.08 MCA 288.69 SMA 125.19 ECC .25532 INC 2.9152 V1 30.281
 RP 108.45 LAP -2.76 LOP 21.98 VP 37.249 GAP 12.68 AZP 89.07 TAL 143.25 TAP 71.94 RCA 93.23 APO 157.15 V2 34.945
 RC 157.792 GL 12.19 GP -4.43 ZAL 35.91 ZAP 169.61 ETS 337.43 ZAE 122.96 ETE 182.17 ZAC 125.89 ETC 168.04 CLP-170.59

PLANETOCENTRIC CONIC
 C3 41.593 VHL 6.449 DLA 31.87 RAL 53.93 RAD 6568.6 VEL 12.766 PTH 2.32 VHP 8.538 DPA 5.62 RAP 31.79 ECC 1.6845
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.74 0 43 57 4100.41 -16.59 173.60 295.32 62.40 1 52 17 3500.4 -20.15 166.47
 105.26 4 42 23 3336.07 -16.57 117.01 295.31 62.39 5 37 59 2736.1 -20.14 109.88
 74.74 0 43 57 4100.41 -16.59 173.60 295.32 62.40 1 52 17 3500.4 -20.15 166.47
 105.26 4 42 23 3336.07 -16.57 117.01 295.31 62.39 5 37 59 2736.1 -20.14 109.88
 110.00 6 47 32 2948.32 -26.56 92.25 300.30 67.64 7 36 40 2348.3 -29.35 84.18
 110.00 3 37 58 3336.17 -7.10 126.62 289.60 56.47 4 36 54 2936.2 -11.46 120.24

MID-COURSE EXECUTION ACCURACY
 SGT 6665.0 SGR 499.1 SG3 253.6
 RRT .6372 RRF .6316 RTF .9827
 SGB 6683.6 R23 .0041 R13 .9827
 SGI 6672.6 SG2 384.2 TMA 2.74

ORBIT DETERMINATION ACCURACY
 ST 2876.9 SR 465.1 SS 898.3
 CRT .8551 CRS -.8084 CST -.9963
 LSA 3039.1 MSA 252.5 SSA 12.1
 EL1 2904.5 EL2 238.8 ALF 7.92

DIFFERENTIAL CORRECTIONS
 TDE 2.5445 TRA 5.6674 TC3-1.5824 BAU .8800
 RDE .5196 RRA .1804 RC3 .0162 FAU .01442
 FDE 1.0016 FRA 2.6486 FC3 -.3002 BSP 22085
 BOE 2.5970 BRA 5.6703 BC3 1.5825 FSP -906

1. The first part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order, and the addresses are listed below each name. The list includes the names of the members of the committee, the names of the members of the sub-committee, and the names of the members of the advisory committee. The addresses are listed in the same order as the names.

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